

west virginia department of environmental protection

Office of Oil and Gas 601 57th Street SE Charleston, WV 25304 (304) 926-0450 (304) 926-0452 fax Earl Ray Tomblin, Governor Randy C. Huffman, Cabinet Secretary www.dep.wv.gov

September 27, 2013

WELL WORK PLUGGING PERMIT

Plugging

This permit, API Well Number: 47-2102357, issued to EQT PRODUCTION COMPANY, is evidence of permission granted to perform the specified well work at the location described on the attached pages and located on the attached plat, subject to the provisions of Chapter 22 of the West Virginia Code of 1931, as amended, and all rules and regulations promulgated thereunder, and to all conditions and provisions outlined in the pages attached hereto. Notification shall be given by the operator to the Oil and Gas Inspector at least 24 hours prior to the construction of roads, locations, and/or pits for any permitted work. In addition, the well operator shall notify the same inspector 24 hours before any actual well work is commenced and prior to running and cementing casing. Spills or emergency discharges must be promptly reported by the operator to 1-800-642-3074 and to the Oil and Gas inspector.

Upon completion of the plugging well work, the above named operator will reclaim the site according to the provisions of WV Code 22-6-30. The above named operator will also file, as required in WV Code 22-6-23, an affidavit on form WR-38 by two experienced persons in the operator's employment and the Oil and Gas inspector that the work authorized under this permit was performed and a description given. Failure to abide by all statutory and regulatory provisions governing all duties and operations here under may result in suspensions or revocation of this permit and in addition may result in civil and/or criminal penalities being imposed upon the operator.

This permit will expire in two (2) years from date of issue. If there are any questions, please free to contact me at (304) 926-0499 ext. 1654

James Martin

Chief

Operator's Well No: WV161271 WHITING #2A-W175(1

Farm Name: CENTRAL ENERGY CORPORATI

API Well Number: 47-2102357

Permit Type: Plugging
Date Issued: 09/27/2013

PERMIT CONDITIONS

West Virginia Code § 22-6-11 allows the Office of Oil and Gas to place specific conditions upon this permit. Permit conditions have the same effect as law. Failure to adhere to the specified permit conditions may result in enforcement action.

CONDITIONS

- 1. All pits must be lined with a minimum of 20 mil thickness synthetic liner.
- 2. In the event of an accident or explosion causing loss of life or serious personal injury in or about the well or while working on the well, the well operator or its contractor shall give notice, stating the particulars of the accident or explosion, to the oil and gas inspector and the Chief within twenty-four (24) hours.
- 3. Well work activities shall not constitute a hazard to the safety of persons.

Form WW-4 (B) Permit Copy (Rev 2/01)

Date: Operator's Well

Well No.

WV 161271(Whiting #2A-W175)

September 10, 2013

API Well No .:

021 - 02357

STATE OF WEST VIRGINIA **DIVISION OF ENVIRONMENTAL PROTECTION** OFFICE OF OIL AND GAS

APPLICATION F	OR A	PERMIT TO	PI LIG AN	D ARANDON
ALL LIVATION I		I LIVIII I U	LOUAN	

	Oil	Gas	X Li	quid Injectio	on	Waste Di	isposal:	
f Gas, Produ	uction	x	Or Undergro	ound storage	е	Deep	Shallow	Χ
	Elevation:	859'	Watershed:	Little Kana	awha Riv	er		
ocation: District:	Glen	ville 63	County:	Gili	mer 2	Quadrangle:	Gilmer 7.5'	365
				_ 7)				
	-	And College and the Park of		_	Address			
Address:	Bridgep	ort, WV 263	330			Bridgeport, V	VV 26330	
				9)	Plugging	Contractor:		
Dil & Gas Bi	ryan Harris				Name:	HydroCarbon W	'ell Service	
Name: P.	.O. Box 157			-	Address	: PO BOX 995		
Address: Vo	olga, WV 262	238				Buckhannon, W	V 26201	
-	Vell Operate ddress: Oil & Gas <u>B</u> lame: <u>P</u>	ocation: Glend District: Vell Operator 120 Productions: Bridgep Dil & Gas Bryan Harris Jame: P.O. Box 157	ocation: Glenville o3 District: EQT Production Co Vell Operator 120 Professional Pl ddress: Bridgeport, WV 263 Dil & Gas Bryan Harris Jame: P.O. Box 157	ocation: Glenville o3 County: District: EQT Production Company 120 Professional Place Eddress: Bridgeport, WV 26330 Dil & Gas Bryan Harris Jame: P.O. Box 157	ocation: Glenville o3 County: Gill District: EQT Production Company 7) Vell Operator 120 Professional Place Iddress: Bridgeport, WV 26330 9) Dil & Gas Bryan Harris Jame: P.O. Box 157	ocation: Glenville 5 County: Gilmer 2 Oistrict: EQT Production Company 7) Designar Address Address Address Oil & Gas Bryan Harris Name: P.O. Box 157	ocation: Glenville o3 County: Gilmer 21 Quadrangle: District: EQT Production Company Vell Operator I 20 Professional Place I	ocation: Glenville of County: Gilmer 1 Quadrangle: Gilmer 7.5' District: EQT Production Company Vell Operator Iddress: Bridgeport, WV 26330 Plugging Contractor: Name: HydroCarbon Well Service Address: P.O. Box 157 Gilmer 1 Quadrangle: Gilmer 7.5' Rex C. Ray Address: 120 Professional Place Bridgeport, WV 26330 9) Plugging Contractor: Name: HydroCarbon Well Service Address: PO BOX 995

Work Order: The work order for the manner of plugging this well is as follows: 10)

See Attachment for details and procedures.

OFFICE USE	ONLY	O.S.
Notification must be given to the district oil and gas inspe	ector 24 hours before permitted work car	commence Oll 8. G.8.
	Date	Office Soll3
Work order approved by inspector		=0 1 1 Co

WN Department of Environmental Protection

Plugging Prognosis - Madison District

Whiting #2A W - 175 (161271) API # 47-021-02357

Gilmer Co, Burnsville, Quad

Prepared by Doug Fry 8/30/2013

Current Status; 8 5/8"@ 398' CMT w/ 150 sks. 4 1/2" @ 2788' CMT w/ 190 sks 2" tubing @ 2687'

FW @ 98',185', 215', 350', 660' Coal @ 98'-104' Salt Sand estimated depth 1702' Gas Shows @ 2064' - 2155' Sand Oil Shows @ 2710'-2692' Sand Completion: Perfs @ 2692' Sand, Perfs 1955' Lime

- 1) Notify State Inspector Bryan Harris 304 553 6087 24 hrs prior to commencing operations.
- 2) TOOH w/2" tubing and check condition.
- 3) TIH w/2" tubing, Tallying pipe on the way in @ 2692', set 100' C1A cement plug @ 2692' to 2592'. (Sand Gas Perfs).
- 4) TOOH w/ tubing @ 2592', Gel Hole @ 2592' to 2064'.
- 5) TOOH w/ tubing @ 2064', set 462' C1A cement plug @ 2064' to 1602'. (Salt Sand, Sand Show Perfs)
- 6) TOOH w/ tubing @ 1765', Gel Hole @ 1602' to 1200'.
- 7) TOOH w/ 2" tubing, Free point 4 1/2" csg, Cut 4 1/2" csg @ free point, TOOH w/ 4 1/2 "csg unless casing is needed to stay in the hole to stabilize while setting any bottom hole plugs and then pull 4 1/2" csg.
- Set 100' C1A cement plug 50' In/Out of cut. Perf all, Coal, Gas, Oil & FW shows below 4 1/2" cut do not omit any plugs shown below.
- 9) TIH w/ tubing @ 1200', set 100' C1A cement plug @ 1200' to 1100'. (Insurance plug)
- 10) TOOH w/ tubing @ 1100', Gel Hole @ 1100' to 720'.
- 11) TOOH w/ tubing @ 720', set 100' C1A cement plug @ 720' to 620'. (FW Show)
- 12) TOOH w/ tubing @ 620', Gel Hole @ 620' to 450'
- 13) TIH w/ tubing @ 360; set-360' Cement Plug to Surface.(4 FW shows,8 5/8" csg pt,1 Coal show)
- 14) Top off as needed.
- 15) Set Monument to WV DEP Specifications
- 20) Reclaim Location & Roads to WV-DEP Specifications.

OL gwm



OG-10 Rev. - 9-71



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

OIL & GAS DIVISION DEPT. OF MINES

3410° 33

Oil and Gas Division WELL RECORD 2

Quadrangle Burnsville GIL-2357 Permit No.

Rotary. X	Oil
Cable	Gas
Recycling	Comb. X 5. Not
Water Flood	Storage
Disposal	

A Contract on the Contract of			Disposal	- (Kind)
Compuny Waco Oil & Gas Address Box 4, Glenville, W. Va. Farm A. E. Whiting Acres 242 Location (waters) Little Kanawha River	Casing and Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft. (Sks.)
Well No. 2-A Fig. 965 District Glenville County	Size 20-16			
The surface of tract is owned in fee by	13-10,,			
.A. E. Whiting et al	9 5/8	*********		
Address Glenville, W. Va.	8 5/8	398	398	150 sks.
Mineral rights are owned by A. E. Whiting et al	7			27,30,30
- reduces	5 1/2			
Prilling Commenced 8-20-73	4 1/2		2788	190 sks.
Ordling Completed 8-24-73 No test cu. ft bbls.	3			190 SKS.
final production 500,000 cu. ft. per day 5 bbls. Vell open one brs. before test 510 RP.	Liners Used		2687	
Vell treature 10/5//73	Attach copy of c	ementing reco	rd.	HANGE COLUMN TO THE PARTY OF THE
1600 BW, 88,000# 20/40 sand 1500 GA BD 2800#, TP 1800#, ISIP 1800#				
Logged by Allegheny Surveys				
oal was encountered at 98 Fee Fee Feet water 98, 185, 215 & 350 & 660	Salt W	- Inches		
roducing Sand Squaw & Fifth Sand	Salt w Depth	1955 and	2692	Feet

	7		Cycle Delivery and the last	Dept	Water Feet Feet
Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water * Remarks
Clay	Blue	Soft	0	40	
Sand Stone	Gray	Hard	40	98	
Coal	Black	Soft	98	104	Water @ 98'
Sand/Shale	Gray	Soft	104	434	
Shale	Blue	Soft	434	644	Water @ 185', 215', 350'
Sand	Gray	Hard	644	730	Water & CCOL
Shale	Blue	Soft	730	940	Water @ 660'
Sand	Gray	Hard	940	970	t .
Shale	Gray	Soft	970	1381	
Sand	Gray	Hard	1381	1414	
Shale	Gray	Soft	1414	1430	(5)
Sand	Gray	Hard	1430	1525	
Shale	Gray	Soft	1525	1550	
Sand	Gray	Hard	1550	1590	
Shale	Gray	Soft	1590	1670	
Sand	Gray	Hard	1670	1725	
Shale	Gray	Soft	1725	1805	
Lime	Gray	Hard	1805	1845	
Shale	Black	Soft	1845	1865	RECEIVED
Lime	Gray	Hard	1865	2058	
Shale	Gray	Soft	2058	2064	Office of Oil & Gas
Sand	Gray	Hard	2064	2155	Gas 173
	Gray	Soft	2155	2692	777
Sand	Gray	Hard	2692	2710	011 & Gas P 1 2 2013

^{*} Indicates Electric Log tops in the remarks section.

(over)

Formation	Color Hard or Soft	Top Feet &	Bottom Feet	Oil, Gas or Water • Remarks
Shale	Gray Soft TOTAL DEPTH	2710 2737	2727	
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Date November 15.	. , 19_73
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SEP 12	



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Fracture	lodge the belle and	shows hill that this map is sourced to the best of my know- shows hill the information required by paragraph 6 of the rules the off und gas section of the mining laws of West Virginia.
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Company BIAGO DIL & BAS CO		STATE OF WEST VIRGINIA
Address Olemville . Wast No.	· · · · · · · · · · · · · · · · · · ·	OIL AND GAS DRASION
Para A. E. Hilli hing	·	CHAMLESTON
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Tract Acres 242 Lease		West a sometimes are
Well (Farm) No. Thea-A Sector	No	WELL LOCATION MAP
Elevation (Spirit Level) 965	•	FILE NO. G11. 2357
Quadrangle Burmavilla		
	2/- 1/-	+ Denotes location of well on Valled States
County Gilmer District	HEAUITE.	+ Denotes location of well of Tribbid States Topographic Mayin to 50 (2,500 telepo
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Date July 26, 1973 Scale 1": 5	Up. dra	WW Department of
TRANCO 17 8183 1-73 542414		VA V Deparment of
		Environ 09/27/2013 on

WW-4-A Revised 6/07

September 10, 2013 2) Operator's Well Number WV 161271(Whiting #2A-W175) 3) API Well No .: 47 02357 State County Permit

STATE OF WEST VIRGINIA - BUREAU OF ENVIRONMENT DIVISION OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL & GAS NOTICE AND APPLICATION TO PLUG AND ABANDON WELL

4)	Surface Owner(s) to be served:	/	5) (a) Coal	Operator:
	(a) Name	Central Energy Corporation		Name	None
	Address	C/O Waco Oil & Gas Co. Inc.		Address	
		P.O. Box 297			
		Glenville, WV 26351			
	(b) Name			(b) Coal Ow	ner(s) with Declaration
	Address			Name	Central Energy Corporation
					C/O Waco Oil & Gas Co. Inc.
				Address	P.O. Box 297
					Glenville, WV 26351
	(c) Name			Name	
	Address			Address	
6)	Inspector	Bryan Harris	V	(c) Coal Les	see with Declaration
	Address	P.O. Box 157		Name	None
		Volga, WV 26238		Address	
	Telephone	304-553-6087			
	releptione	304-333-0067			-

TO THE PERSONS NAMED ABOVE:

You should have received this Form and the following documents:

- (1) The application to Plug and Abandon a Well on Form WW-4B, which sets out the parties involved in the work and describes the well its and the plugging work order; and
- (2) The plat (surveyor's map) showing the well location on Form WW-6.

The reason you received these documents is that you have rights regarding the application which are summarized in the instructions on the reverses side. However, you are not required to take any action at all.

Take notice that under Chapter 22-6 of the West Virginia Code, the undersigned well operator proposes to file or has filed this Notice and Application and accompanying documents for a permit to plug and abandon a well with the Chief of the Office of Oil and Gas, West Virginia Division of Environmental Protection, with respect to the well at the location described on the attached Application and depicted on the attached Form WW-6. Copies of this Notice, the Application, and the plat have been mailed by registered or certified mail or delivered by hand to the person(s) named above (or by publication in certain circumstances) on or before the day of mailing or delivery to the Chief.

	Well Operator:	EQT Production Company
	By:	Victoria J.Roark
OFFICIAL SEAL	Øts:	Permitting Supervisor
NICHOLAS L. BUMGARDNER Ad	Address:	PO Box 280
Rt. 1 Box 4	}	Bridgeport, WV 26330
Liberty, WV 25124 My Commission Expires June 27, 2011	Telephone:	(304) 848-0076
Subscribed and sworn before me t	his	day of SEDTEMBER, 2013
	A M	Notary Public Notary Public
My Commission Expires:		6/27/2018

The Office of Oil & Gas processes your personal information, such as name, address and phone number, as part of our regulatory duties. Your personal information may be disclosed to other State agencies or third parties in the normal course of business or as needed to comply with statutory Wy Department of profession 09/27/2013 or regulatory requirements, including Freedom of Information Act requests. Our office will appropriately secure your personal information. If you have any questions about our use of your personal information, please contact DEP's Chief Privacy Officer at depprivacyofficer@wv.gov.

WW-9 Revised 2/03

Page_	of				
2) Opera	ator's We	ll Nu	mber		
WV 161	271(Whi	ting :	#2A-W	175)	
3) API W	/ell No.:	47	021 -	02357	

STATE OF WEST VIRGINIA

DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL & GAS CONSTRUCTION AND RECLAMATION PLAN AND SITE REGISTRATION APPLICATION FORM GENERAL PERMIT FOR OIL AND GAS PIT WASTE DISCHARGE

Operator Name:	EQT PRODUCTION		OP ID: _	
Watershed:	7237	awha River	Quadrangle:	Gilmer 7.5'
Elevation:	859' Cou	unty: Gilmer	District:	Glenville
Description of anti	cipated Pit Waste:		Formation Fluids	
일보다 지구하다. 그 작가 그는 사람들이 없는 것이다.	using more than 5,000 t be used in the pit?	되어서 전 나는 계속이 하게 되어 되어야 한다.	the proposed well work? what ml.?	Yes No <u>X</u>
Proposed Disposa X	Underground Inje Reuse (at API Nu Offsite Disposal I	ection - UIC Permit Numb umber)	per	
	sed, what type? Synthe	Air, freshwater, oil based etic, petroleum, etc.	, etc	
If left in Landfill	pit and plan to solidify wha or offsite name/permit nun		The state of the s	R POLLUTION PERMIT
issued on August understand that the permit and/or othe I certify under penapplication form ar for obtaining the insignificant penaltie	1, 2005, by the Office of e provisions of the perm r applicable law or regu alty of law that I have pe nd all attachments there formation, I believe that	Oil and Gas of the West oit are enforceable by law lation can lead to enforce ersonally examined and a sto and that, based on my the information is true, a	t Virginia Division of Environ. Violations of any terms of the ement action. The familiar with the information of the ement action in the information of the employed in the	onmental Protection. I or condition of the general ation submitted on this is immediately responsible am aware that there are
	icial (Typed or Printed		N. T	RECEIVED
Company Off		Permitting Supervis	or-WV	Office of Oil &
Subscribed and	sworn before me this	day of	SEPTEMBE A	, <u>2013</u> SEP 1 2 2013
My Commissio	e Expires	27/2018	Notary Publi NICHOLA	FFICIAL SEAL c, State Of West Virginia AS L. BUMGARDNER Rt. 1 Box 4 erty, WV 25124 on Expires June 27, 2015

OPERATOR'S WELL NO.: WV 161271(Whiting #2A-W175)

LEGEND

		Spring	Wet Spot	
Road	(\rightarrow	み	
Planned Fence	Drain Pipe w	ith size in inches	Water Way	
//_/		€ 12	←→ ← →	
Existing Fence	Stream		Cross Drain	
Open Ditch		Filter Strip	Rock	
	<u> </u>	XX	% 600	
North	Building	Water well	Drill site	
N		W	\oplus	
Pit with Cut Walls	Pit with Comp	acted Walls Area of	Land Application of Pit Waste	
		~		
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sed Revegetation Treatme	ent: Acres Disturbed:	1± Prevegetation	n pH 5.8	l
-		1± Prevegetation	n pH5.8	
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me <u>3</u> Ton ertilizer (10-20-20) or equ	ns/acre or to correct to purious as a constant as a consta	0H <u>6.5</u> 1/3 ton		
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Topo Quad:_	Gilmer 7.5'	Sca	ale:	1 " = 2000'	
County:	Gilmer	Da	te:	August 22, 2013	
District:	Glenville	Pro	ject No:	25-19-00-07	
	47-021-02357	WV 161271	(Whiting	#2A-W175)	Торо
T. I. T. I. D. I.	Stouts Mills	Sind ing	796 F.	Well	
Think control of	KAN AMILIA	Ten es	-021-02357 VV 161271	Olia Vell	Gas Welle Well 2 Billing Well 2 Billing
a isar	Gilmer7.5' Quadrangle Burnsville 7.5' Quadrangle Gas Weill	Gilmer	Strip Mine Gas Well		Lond Gas Well
G L E N	VIII. E Gas Wells Gas Wells Wells	Mine Page B	ower (N: 685,47 E: 2,079, WGS 84 LAT: 38.8 LONG: -8	South Zone 77.12 862.44 882207 80,719291 8.85
EGHEN O	ALLEGHENY 1-800-4 P.O. E BIRCH PH: PH: (304	S SERVICES PERFORMED BY: SURVEYS, I 482-8606 800 X 438 ER, WV 26610 4) 649-8606 4) 649-8608	NC. E	QT Production C P.O. Box 280 Bridgeport, WV 26:	-tection



West Virginia Department of Environmental Protection Office of Oil and Gas WELL LOCATION FORM: GPS

API: 47-021-02357 WELL N	O.: WV 161271 (W	hiting #2A-W175)
FARM NAME: Whiting		
RESPONSIBLE PARTY NAME:EQT Pi	roduction Company	
COUNTY: Gilmer	DISTRICT: Gle	nville
QUADRANGLE: Gilmer 7.5'		
SURFACE OWNER: Central Energy Corp	poration	
ROYALTY OWNER:Cayenne Investmen	t LTD, et al.	
UTM GPS NORTHING: 4303743		
UTM GPS EASTING: 524347	GPS ELEVATION:_	262 m (859 ft)
preparing a new well location plat for a pluggir above well. The Office of Oil and Gas will not the following requirements: 1. Datum: NAD 1983, Zone: 17 North height above mean sea level (MSL) 2. Accuracy to Datum – 3.05 meters 3. Data Collection Method: Survey grade GPS: Post Processed Di Real-Time Differed Mapping Grade GPS _X_: Post Processed Real-Time Differed Mapping Grade GPS	accept GPS coordinate, Coordinate Units: m — meters. Ifferential ential d DifferentialX ferential y map showing the w rect to the best of my y law and the regulation	eters, Altitude: cell location. knowledge and
Signature /	Ps #2180 Title	SEP 1 2 2019
Date 8/22/13		WV Department of



POTENTIAL WATER SAMPLE DATA SHEET

CLIENT: EQT PRODUCTION COMPANY

POTENTIAL SAMPLE LOCATIONS

Site: 1 Spacing: 990' +/- Owner: National Timber Par	tners WV 3 LLC
Address: 471 B&O Overpass Road, Hedgesville, WV 25427	Phone No
Comments:	
Site: 2 Spacing: 990' +/- Owner: CSX Corporation	
Address: 500 Water Street, Jacksonville, FL 32202	Phone No. <u>904.359.3200</u>
Comments:	

BIRCH RIVER OFFICE P.O. Box 438 * 237 Birch River Road

Birch River, WV 26610 phane: 304-649-8606 fax: 304-649-8608 BRIDGEPORT OFFICE

172 Thompson Drive Bridgeport, WV 26330 phone: 304-848-5035 fax: 304-848-5037 CALDWELL OFFICE 212 Cumberland Street Caldwell, OH 43724 phone: 740-305-5007 fax: 740-305-5126 ALUM-CREEK ÖFFICE P.O. Box 108 - 1413 Children Road Main Greek NV 25003 phone: 304-756-2949 fax: 304-756-2948

W W W . A L L E G H E N Y S U R V E Y S . C O M



Topo Quad:_	Gilmer 7.5'	Scale:_	1 "	= 2000'
County:	Gilmer	Date:	Au	gust 22, 2013
District:	Glenville	Project Project	No: 25	-19-00-07
Water	47-021-02357	WV 161271 (V	hiting #2	A-W175)
TER ON	BM 2750	HOMO DUN	7/1/18	Well
	Stouts Mill	AD.	otential water	well within 1000'
ANO ANO	ROAL	The state of the s		
	KA			
ME CONTRACT	Z	erical Cem	Well	777227566
The state of the s	and the second	753 Mine) de la company
TAKE COMPO		47-021-02 WV 161:		Gas BR
201	Site 2	RIVER SHIE		Gas Welle
01302	Site 1	Gilmer		Longish
5555	TOPHIL		8 6 0	
	Gilmer 7.5' Quadrangle Burnsville 7.5' Quadrangle	Gas Well C	7	
) James J		K	762 Gas Wall
Stouts Mills Run	A CONTRACTOR	Copen Run Ch	Strip Mine Gas Well	
Duekcamp Run	Gas Weil	706		Substation
GLEN	VI L E	E MAN		LITT.
750°(()	Later coco		Strip Mine	NAD 27, South Zone N: 685,477.12
3616	VALUE AND A		W.V.	E: 2,079,862.44 WGS 84
10	Gas Wells Strip	Mine Bower	SI	LAT: 38.882207 LONG: -80.719291
1	Gas Waite	Run	DESTABLE TO	ELEV: 858.85
LEGHEN		G SERVICES PERFORMED BY: SURVEYS, INC	PREPARED FOR:	Office of Oll & Gas Production Company
Ung Control of the Co	1-800- P.O.	482-8606 BOX 438 /ER, WV 26610	,	P.O. Box 280 Bridgeport, WV 26330
VEYS.	PH: (30	/ER, WV 26610 4) 649-8606 04) 649-8608		WV Department of