

west virginia department of environmental protection

Office of Oil and Gas 601 57th Street, S.E. Charleston, WV 25304 (304) 926-0450 fax: (304) 926-0452

Jim Justice, Governor Austin Caperton, Cabinet Secretary www.dep.wv.gov

PERMIT MODIFICATION APPROVAL Horizontal 6A / Horizontal 6A Well

EQT PRODUCTION COMPANY 120 PROFESSIONAL PLACE BUILDING II BRIDGEPORT, WV 26330

Re:

Permit Modification Approval for BLIZZARD 2H

47-095-02216-00-00

Changing the Azimuth and Length of Well. Update WW-6B, Schematics, WW-6A1, Mylar Plat, Rec Plan, Monitoring Plan & Site Safety Plan

EQT PRODUCTION COMPANY

The Office of Oil and Gas has reviewed the attached permit modification for the above referenced permit. The attached modification has been approved and well work may begin. Please be reminded that the oil and gas inspector is to be notified twenty-four (24) hours before permitted well work is commenced.

If there are any questions, please feel free to contact me at (304) 926-0450.

James A. Martin Chief

Operator's Well Number: BLIZZARD 2H

Farm Name: BLIZZARD, ROGER D. & SPENCER, RUTH E

U.S. WELL NUMBER: 47-095-02216-00-00 Horizontal 6A / Horizontal 6A Well

Date Issued: 1/20/2017

Promoting a healthy environment.



December 13, 2016

Mr. Gene Smith
West Virginia Department of Environmental Protection
Office of Oil and Gas
601 57th Street SE
Charleston, WV 25304

Re: Modification of 47-095-02242, 47-095-02216

Dear Mr. Smith,

Enclosed is an updated WW-6B, schematics, WW-6A1, mylar plat, rec plan, monitoring plan and SSP disc. All paperwork is inspector signed. EQT is changing the azimuth of the well and the length.

If you have any questions, please do not hesitate to contact me at (304) 848-0076.

Sincerely,

Vicki Roark

Permitting Supervisor-WV

Enc.

RECEIVED
Office of Oil and Gas

DEC 1 4 2016

WV Department of Environmental Protection WW-6B (04/15) API NO. 47-025 - 02216
OPERATOR WELL NO. Bizzard 2H
Well Pad Name: Bizzard

STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS WELL WORK PERMIT APPLICATION

1) Well Opera	itor: EQTPr	oduction Company	306686	Tyler	Ellsworth	Shirley	
	<u> </u>		Operator ID	County	District	Quadrangl	e
2) Operator's	Well Number	Blizzard 2H	Well	Pad Name: Bliz	zard		
3) Farm Name	:/Surface Owr	ICT: Roger O. Blurrand and Roth E	Spencer Public I	Road Access: C	o. Rt. 34		
4) Elevation, q	current ground	i: 1004' El	evation, propos	ed post-constru	ction: 1004'		
5) Well Type	(a) Gas Other	X Oil	<u>U</u>	nderground Sto	rage		
	(b)If Gas	Shaffow X Horizontal X	Deep		,,	25 111	DAH
6) Existing Pa	d: Yes or No	Yes)	114/16	114446
	arget Formati 531', 51', 274	on(s), Depth(s), Antic 7 PSI	ipated Thicknes	ss and Expected	Pressure(s):	///	
8) Proposed T	otal Vertical I	Depth: 6531					
9) Formation a	at Total Vertic	al Depth; Marcellus					
(0) Proposed	Total Measure	ed Depth: 15499					
11) Proposed I	Horizontal Le	g Length: 7773					
12) Approxim	ate Fresh Wat	er Strata Depths:	234,289,571,	647			
13) Method to	Determine Fr	esh Water Depths: F	rom offset we	lls			
14) Approxim	ate Saltwater	Depths: 1443,1670,2	2074				
15) Approxim	ate Coal Sean	n Depths: N <mark>one re</mark> po	rted				
		ossible Void (coal mi): None report	ed		
		ntion contain coal sear at to an active mine?	ns Yes	1	√o ×		
(a) If Vac. or	ovide Mine Ir	ıfo: Name:			RECEIV	/ED	
(a) II 163, pi	OAIGE MING H	Depth:		C	rifice of Oil a		
		Seam:	10 10 10 10 10 10 10 10 10 10 10 10 10 1		DEC 14	2016	
		Owner:			MALE) anne	mant of	
				Env	WV Depart ⁄ironmental	Protection	n

Page 1 of 3

WW-6B (04/15) API NO: 47- 095 - 02216

OPERATOR WELL NO. Blizzard 2H
Well Pad Name: Blizzard

18)

CASING AND TUBING PROGRAM

TYPE	Size (in)	New or Used	Grade	Weight per ft. (lb/ft)	FOOTAGE: For Drilling (ft)	INTERVALS: Left in Well (ft)	CEMENT: Fill-up (Cu. Ft.)/CTS
Conductor	20	New	A-500	78.6	40	40	60 ft^3 / CTS
Fresh Water	13 3/8	New	J-55	54.5	747	747	666 ft^3 / CTS
Coal							
Intermediate	9 5/8	New	A-500	40	2102	2102	824 ft^3 / CTS
Production	5 1/2	New	P-110	20	15499	15499	500° above top producing zone
Tubing	2 3/8		J-55	4.7		May not be cur, if run set 40' above top petf or 80' inchancer	
Liners					-		

Draft 11-14-16 St Wille

TYPE	Size (in)	<u>Wellbore</u> Diameter (in)	<u>Wall</u> <u>Thickness</u> (in)	Barst Pressure (psi)	Anticipated Max Internal Pressure (psi)	Cement Type	Cement <u>Yield</u> (cu. ft/k)
Conductor	20	26	.375	1378	1102	Class A	1.18
Fresh Water	13 3/8	17 1/2	.38	2700	2160	See Variance	1.19
Coal							THE RESERVE THE PROPERTY OF TH
Intermediate	9 5/8	12 3/8	.395	3950	3160	See Variance	1.19
Production	5 1/2	8 1/2	.361	12640	10112	Class A/H	1.123/2.098
Tubing	2 3/8	NA	.19	7700			
Liners			-				

PACKERS

Kind:	REDEIVED
Sizes:	Office of Oil and Gas
Depths Set:	UEC 14 2016
	WW Florester of

WV Department of Environmental Protection

Page 2 of 3

WW-6B (10/14)

API NO. 47- 095 ~ 02216

OPERATOR WELL NO. Blizzard 2H

Well Pad Name: Blizzard

19) Describe proposed well work, including the drilling and plugging back of any pitot hole:

Drill and complete a new horizontal well in the Marcellus Formation. Drill the vertical to an approximate depth of 3547'. Kick off and drill curve. Drill the lateral in the Marcellus. Cement casing.

DmH 11-14-16



20) Describe fracturing/stimulating methods in detail, including anticipated max pressure and max rate:

Hydraulic fracturing is completed in accordance with state regulations using water recycled from previously fractured walls and obtained from freshwater sources. This water is mixed with sand and a small percentage (less than 0.3%) of chemicals (including 15% Hydrochloric acid, friction reducer, biocide, and scale inhibitor), referred to in the industry as a "slickwater" completion. Maximum anticipated internal casing pressure is expected to be approximately 10000 psi, maximum anticipated treating rates are expected to average approximately 100 bpm. Stage lengths vary from 150 to 300 feet. Average approximately 250,000 gallons of water per stage. Sand sizes vary from 100 mesh to 20/40 mesh. Average approximately 250,000 pounds of sand per stage.

- 21) Total Area to be disturbed, including roads, stockpile area, pits, etc., (acres): no additional
- 22) Area to be disturbed for well pad only, less access road (acres); no additional
- Describe centralizer placement for each casing string;
- Surface: Bow spring centralizers One centralizer at the shoe and one spaced every 500'.
- Intermediate: Bow spring centralizers— One centralizer at the shoe and one spaced every 500'.
- Production: One solid body centralizer spaced every joint from production casing shoe to KOP

24) Describe all cement additives associated with each cement type:

Conductor: Class A no additives
Surface (Type 1 Cement): 0-3% Calcium Chloride. Used to speed the setting of cement sturries
Intermediate (Type 1 Cement): 0-3% Calcium Chloride. Used to speed the setting of cement sturries.

Production:
Lead (Class A Cement): 0.2% CO-20 (dispersant makes cement easier to mix). .15% SuperFL-300 (fluid loss/lengthens thickening time) .15% SEC-10 (fluid loss) 50:50 POZ (extender)
Tail (Class H Cement): 0.2% Super CR-1 (Retarder). Lengthens thickening time: .3% Super FL-200 (fluid loss) .2% SEC-40 (Fluid loss). .2% SuperFL-350 (fluid loss) Reduces amount of water lost to formation. 50 % Calcuim Carbonate. Acid solubility.

25) Proposed borehole conditioning procedures:

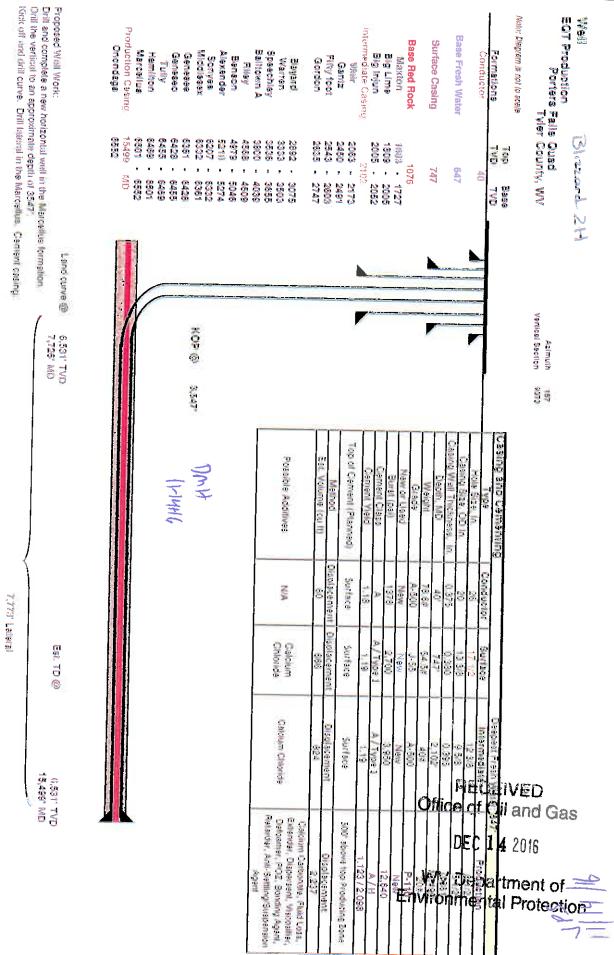
HECEIVED

Surface: Circulate hole clean while rotating & reciprocating the drill string until**@அற்று நிறுந்தி அது**ace. Intermediate: Circulate hole clean while rotating & reciprocating the drill string until cuttings diminish at

surface. DEC $1.4\,$ 2016 Production: Pump marker sweep with nut plug to determine actual hole washout. Calculate a gauge holes bottoms up volume. Perform a cleanup cycle by pumping 3-5 bottoms up or until the shakers are clean. Check volume of cuttings coming across the shakers every 15 minutes. **Environmental Protection**

*Note: Attach additional sheets as needed.

Page 3 of 3



WW-6A1 (5/13)

O	erator's	Well	No.	Blizzard 2H	

INFORMATION SUPPLIED UNDER WEST VIRGINIA CODE Chapter 22, Article 6A, Section 5(a)(5) IN LIEU OF FILING LEASE(S) AND OTHER CONTINUING CONTRACT(S)

Under the oath required to make the verification on page 1 of this Notice and Application, I depose and say that I am the person who signed the Notice and Application for the Applicant, and that

- (1) the tract of land is the same tract described in this Application, partly or wholly depicted in the accompanying plat, and described in the Construction and Reclamation Plan;
- (2) the parties and recordation data (if recorded) for lease(s) or other continuing contract(s) by which the Applicant claims the right to extract, produce or market the oil or gas are as follows:

Lease Name or				
Number	Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book/Page

see attached

Acknowledgement of Possible Permitting/Approval In Addition to the Office of Oil and Gas

The permit applicant for the proposed well work addressed in this application hereby acknowledges the possibility of the need for permits and/or approvals from local, state, or federal entities in addition to the DEP, Office of Oil and Gas, including but not limited to the following:

- WV Division of Water and Waste Management
- WV Division of Natural Resources WV Division of Highways
- U.S. Army Corps of Engineers
- U.S. Fish and Wildlife Service
- County Floodplain Coordinator

The applicant further acknowledges that any Office of Oil and Gas permit in no way overrides, replaces, or nullifies the need for other permits/approvals that may be necessary and further affirms that all needed permits/approvals should be acquired from the appropriate authority before the affected activity.

Well Operator: EQT Production Company

By: Victoria J. Roark

Its: Permitting Supervisor

Office of Oil and Gas

EQT Production Company

Victoria J. Roark

Permitting Supervisor

WV Department of

Environmental Protection Page 1 of 2

	/ 8/100/	971007				/ 870015				<u>870360</u>				870350			870073				/ 870960	Lease No.
Statoil USA Onshore Properties Inc	Golden Eagle Hesources, LLC et al (current royalty owner) Devid Alan Smith (original laceout)		Statoil USA Onshore Properties Inc	Chesapeake Appalachia LLC	Anthony B. Parr, et ux (original lessor)	Anthony B. Parr (current royalty owner)	Statoii USA Onshore Properties Inc	Petroedge Energy LLC	Daniel Clair Asher (original lessor)	Ridgetop Capital LP, et al (current royalty owner)	Statoil USA Onshore Properties Inc	Petroedge Energy LLC	Brian Bruce Seckman (original lessor)	Mary Sue Tate, et al (current royalty owner)	Statoil USA Onshore Properties Inc	William S. Nash, et ux (original lessor)	William S. Nash, et ux (current royalty owner)	Statoli USA Onshore Properties Inc	Petroedge Energy LLC	Care! Craig Rich (original lessor)	AMP Fund III LP, et al (current royalty owner)	Grantor, Lessor, etc.
EQT Production Company	Otato IIIOA Opariono Bonnation		EQT Production Company	Statoil USA Onshore Properties Inc	Chesapeake Appalachia LLC		EQT Production Company	Statoil USA Onshore Properties Inc	Petroedge Energy LLC		EQT Production Company	Statoil USA Onshore Properties Inc	Petroedge Energy LLC		EQT Production Company	Statoil USA Onshore Properties		EQT Production Company	Statoil USA Onshore Properties Inc	Petroedge Energy LLC		Grantee, Lessee, etc.
	***************************************	I				* * *				부 보 자				* * *			축 주 작				***	Royalty
462/2 44 539/239	200		539/239	378/764	367/774		539/239	406/147	388/356		539/239	406/147	388/619	Of	539/239	463/515	GEI f Oil	539/239 🖭 an	436/1 D d	411/463 G8	ıs	Book/Page
															r) P= 6	. 7 4	•				

*** We will pay a minimum one-eighth of the total amount paid to or received by or allowed to the owner of the working interest at the wellhead for the oil or gas so extracted, produced, or marketed before deducting the amount to be paid to or set aside for the owner of the oil or gas in place, on all such oil or gas to be extracted, produced, or

marketed from the well.

DEC 1 4 2016

WV Department of Environmental Protection



November 1, 2016

Mr. James Martin West Virginia Department of Environmental Protection Office of Oil and Gas 601 57th Street SE Charleston, WV 25304

Re: Blizzard well pad, well number (Blizzard 2H) Clay District, Ritchie County

Dear Mr. Martin,

EQT Production Company is submitting an application for a new well work permit for the above well number. Upon information and belief, Operator's lease and/ or other real property rights permit it to conduct drilling operations for the subject well in the location shown on the plat, including under any public roads that the well lateral crosses.

Sincerely,

Vicki Roark

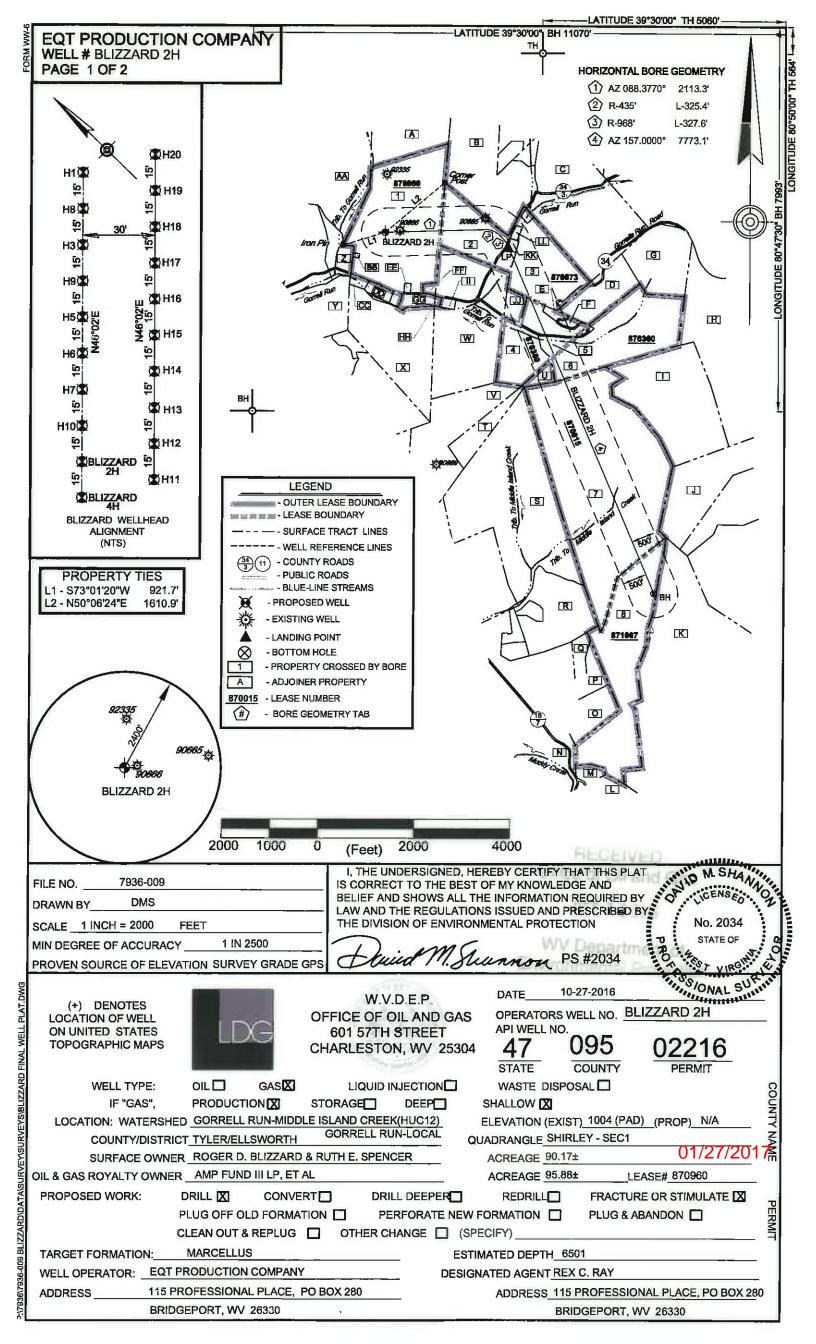
Permitting Supervisor-WV

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Office of Oil and Gas

DEC 1 4 2016

WV Department of Environmental Protection

EQT Production 115 Professional Place I P.O. Box 280 I Bridgeport, WV 26330 T 304.848.0000 I F 304.848.0040 I www.eqt.com



TAGE ZOI Z								
UTM NAD83 ZONE 17N (METERS)	TOPHOLE	N-4372112.32	E-512803.82					
	LANDING PT	N-4372020.35	E-513592.29					
(METERO)	BOT HOLE	N-4369855.97	E-514553.96					
NAD27 SPC	TOPHOLE	N-366525.57	E-1618698.71					
FEET NORTH	LANDING PT	N-366180.49	E-1621281.05					
ZONE	BOT HOLE	N-359025.35	E-1624318.22					
NAD27 GEO	TOPHOLE	N039.498455	W080.851257					
LAT(N) LONG(W)	LANDING PT	N039.497614	W080.842089					
LONG(W)	BOT HOLE	N039.478095	W080.830952					

	NOTES
1.	IT IS NOT THE INTENTION OF THIS PLAT TO
	REPRESENT A COMPLETE BOUNDARY SURVEY OF
	THE PARCELS SHOWN HEREON. BOUNDARIES AS
	SHOWN TAKEN FROM RECORD DEED DESCRIPTIONS.
	TAX MAPS, AND SUPPLEMENTAL FIELD SURVEY.

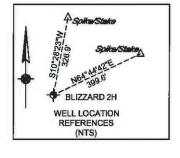
OWNERSHIP DATA GATHERED FROM COUNTY PUBLIC TAX AND DEED RECORDS.

LATERAL GEOMETRY BASED ON WEST VIRGINIA SPC NORTH, NAD 27 DATUM

TAB	OWNER	DISTRICT	TAX MAP	PARCEL#	AREA
1	RODER DALE BLIZZARD AND RUTH E SPENCER	ELLSWORTH	2-15	33	90.17
2	WILLIAM S.AND OPAL MARIE NASH	ELLSWORTH	2-15	32	76.92
3	RODNEY A. & CANDACE L NASH	ELLSWORTH	2-16	57	1
4	ROBERT I & FLOYD W. REED	ELLSWORTH	2-22	1	42.324
5	ROBERT I. & COREY I. REED	ELLSWORTH	2-22	1.1	4.49
6	STEPHEN H. & BARBARA J. DUNTHORN	ELLSWORTH	2-22	4	59.71
7	ANTHONY B. PARR	ELLSWORTH	2-22	41	222
8	DAVID & CHERYL LYNN BARRICK	ELLSWORTH	2-28	9	87.53
Τ	SURFACE PROPERTIES ADJOINING TH	OSE CROSSED E	Y BORE	(ABOVE)	
TAB	OWNER	DISTRICT	TAX MAP	PARCEL#	AREA
A	NOGER DALE BLIZZARD AND RUTH E SPENCER	ELLSWORTH	2-15	31	25
В	RODNEY A. & CANDACE L. NASH	ELLSWORTH	2-15	38	85.48
C	RICHARD D. & CATHY J. PYLES	ELLSWORTH	2-18	44	87.82
D	HAROLD L. JR. & DEBORAH C. HOLLOWAY	ELLSWORTH	2-22	3	22.95
E	GARY FORRESTER	ELLSWORTH	2-22	1.3	2.018
F	GARY FORRESTER	ELLSWORTH	2-22	2	1.5
G	ALFRED LONZO EDDY ETAL	ELSWORTH	2-16	43	37.1
Н	STATOIL USA ONSHORE	ELLSWORTH	2-22	Б	131.57
	STATOIL USA ONSHORE	ELLSWORTH	2-22	5	84.874
J	RONALD P & SANDRA L. WEBB	ELLSWORTH	2-22	40	65
K	VICTOR A. & LORRAINE B. WEEKEY	ELLSWORTH	2-28	31	226,25
L	MICHAEL S. & JOYCE E. MERCER	ELLSWORTH	2-28	20	5.98
M	JESSE & KATELYN M. LENZ	ELLSWORTH	2-28	18	2.7
N	JEAN M. GUMP	ELLSWORTH	2-28	10,1	8,199
0	CAROLEE J. DANIELL	ELLSWORTH	2-28	8	30
P	RANDALL L. & KATHRYN M. WISE	ELLSWORTH	2-28	7	9
Q	ROBERT W. & JANICE GOFF	ELLSWORTH	2-22	48	11.25
R	RICHARD G. & LORETTA L. BAKER	ELLSWORTH	2-22	43	42.329
8	JAMES H. HILL ESTATE	EJLSWORTH	2-22	42	144,26
	HAESSLY LAND & TIMBER CO.	ELLSWORTH	2-21	53	89.88
_	ROBERT I & FLOYD W. REED	ELLSWORTH	2-22	1	42.324
v	HAESSLY LAND & TIMBER CO.	ELLSWORTH	2-21	53	89.88
W	ALFRED ALONZO EDDY	ELLSWORTH	2-21	13	98.56
X	CARL E. & ELSIE M. TAYLOR	ELLSWORTH	2-21	14	67.91
Ŷ	CARL E. & ELSIE M. TAYLOR	ELLSWORTH	2-21	6	63.5
Z	RANDY & PAMELA L. LANCASTER	ELLSWORTH	2-15	34.1	11.417
_	STATOIL USA ONSHORE	ELLSWORTH	2-15	30	124.078
	CEMETERY	ELLSWORTH	2-15	N/A	N/A
		ELLSWORTH	2-22	7	1.75
	GARY O & ANITA K BENNETT		2-21	8	3.747
	ROGER DALE BLIZZARD AND RUTH E. SPENCER	ELLSWORTH	2-21	9	0.71
	CLAYTON M. & RUTH ELEANOR SPENCER	ELLSWORTH			
	ROGER DALE BLIZZARD AND RUTH E. SPENCER	ELLSWORTH	2-21	11	1
_	ROGER DALE BLIZZARD AND RUTH E SPENCER	ELLSWORTH	2-21	10	5
	ALFRED ALONZO EDDY	ELLSWORTH	2-21	13	98.58
_	MATTHEW SCOTT & CHRESTY LYNN RELE	ELLSWORTH	2-21	13.1	1.418
	DAVID EARL & JOYCE ANN GILES	ELLSWORTH	2-22	1.2	5.387
	RODNEY A. & CANDACE L MARH	ELLSWORTH	2-16	57	1
ш	RANDY E. & DAINE D. NASH	ELLSWORTH	2-16	56	1

SURFACE PROPERTIES CROSSED BY BORE

LEASE#	MINERAL OWNERS	AREA ±
870073	WILLIAM S. NASH, ET UX	79.825±
870350	MARY SUE TATE, ET AL	36.616±
870360	RIDGETOP CAPITAL LP, ET AL	69.5±
870015	ANTHONY B. PARR	222±
871007	GOLDEN EAGLE RESOURCES, LLC ET AL.	89.13±



					40.07.0040	
ROVEN SOU	JRCE OF ELEVA	TION SURVEY GRADE GPS	Downa 11.8u	unnou	PS #2034	
	OF ACCURACY		David M. Su		DC #2024	111
CALE 1 IN	CH = 2000	FEET	THE DIVISION OF ENVIRON	MENTAL PROT	ECTION	Ē
RAWN BY	DIVIG		LAW AND THE REGULATION	NS ISSUED AND	PRESCRIBED E	3Y
DAMAIN DV	DMS	1	BELIEF AND SHOWS ALL TH	E INFORMATION	ON REQUIRED B	Y
ILE NO.	7936-009		I, THE UNDERSIGNED, HE IS CORRECT TO THE BEST			. [
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			I THE HAIDERSIGNED HE	BERV CERTIES	V THAT THIS DIV	

1	D M	SHAA	NO
		2034	
	STATE OF		
	NS T	VIRGIN	4

ONAL SUR

(+) DENOTES LOCATION OF WELL ON UNITED STATES **TOPOGRAPHIC MAPS**



W.V.D.E.P. OFFICE OF OIL AND GAS 601 57TH STREET CHARLESTON, WV 25304

10-27-2016 DATE

OPERATORS WELL NO. BLIZZARD 2H API WELL NO.

47 STATE

COUNTY

02216

WELL T	YPE:
--------	------

OIL 🔲

GAS X

LIQUID INJECTION

WASTE DISPOSAL

IF "GAS",

PRODUCTION X

STORAGE.

DEEP SHALLOW X

OP) N/A COUNTY NAME ELEVATION (EXIST) 1004 (PAD) (PROP) N/A

PERMIT

LOCATION: WATERSHED GORRELL RUN-MIDDLE ISLAND CREEK(HUC12)

GORRELL RUN-LOCAL

QUADRANGLE SHIRLEY - SEC1

ACREAGE 90.17±

SURFACE OWNER ROGER D. BLIZZARD & RUTH E. SPENCER OIL & GAS ROYALTY OWNER _ AMP FUND III LP, ET AL

_LEASE#_870960

PROPOSED WORK:

COUNTY/DISTRICT TYLER/ELLSWORTH

ACREAGE 95.88±

DRILL X CONVERT DRILL DEEPER

REDRILL

DESIGNATED AGENT REX C. RAY

FRACTURE OR STIMULATE

PLUG OFF OLD FORMATION

PERFORATE NEW FORMATION

PLUG & ABANDON

TARGET FORMATION:

CLEAN OUT & REPLUG ☐ OTHER CHANGE ☐ (SPECIFY) **MARCELLUS**

ESTIMATED DEPTH 6501

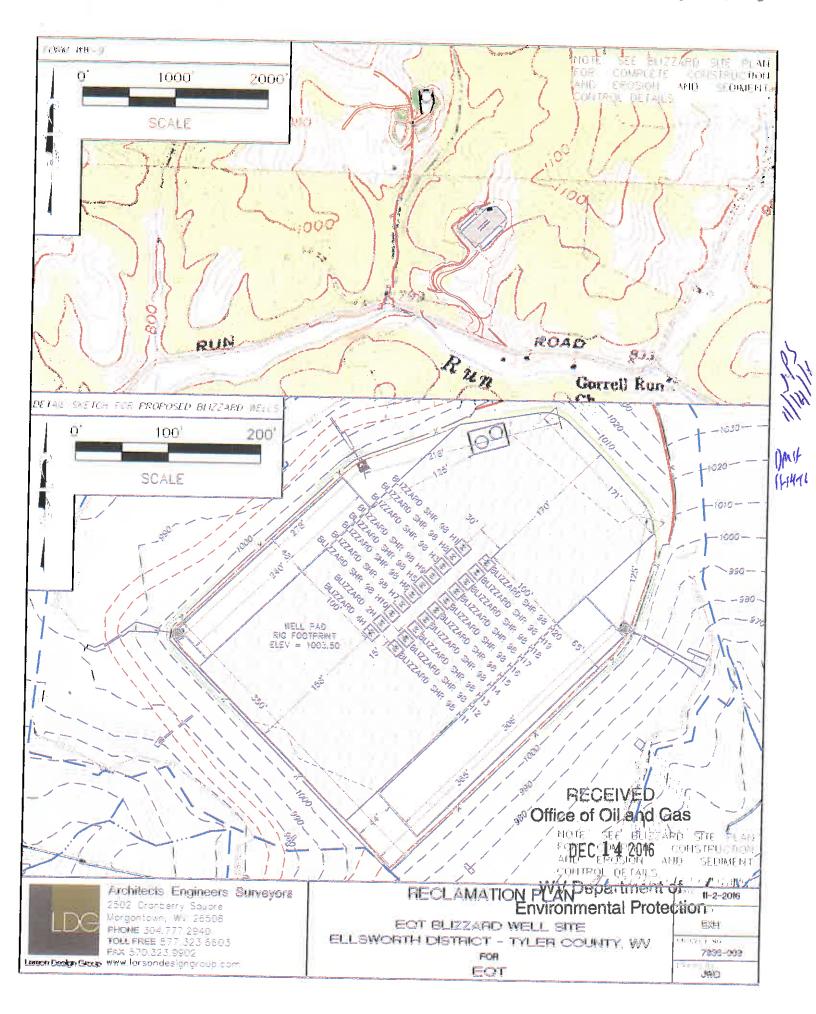
WELL OPERATOR: EQT PRODUCTION COMPANY

115 PROFESSIONAL PLACE, PO BOX 280

ADDRESS 115 PROFESSIONAL PLACE, PO BOX 280

BRIDGEPORT, WV 26330

BRIDGEPORT, WV 26330





November 2, 2016

Mr. Gene Smith
West Virginia Department of Environmental Protection
Office of Oil and Gas
601 57th Street SE
Charleston, WV 25304

Re: Monitoring Plan for Blizzard (2H & 4H)

Dear Mr. Smith,

There are no identifiable wells within 500 feet of the Blizzard well pad, therefore; no monitoring plan has been provided.

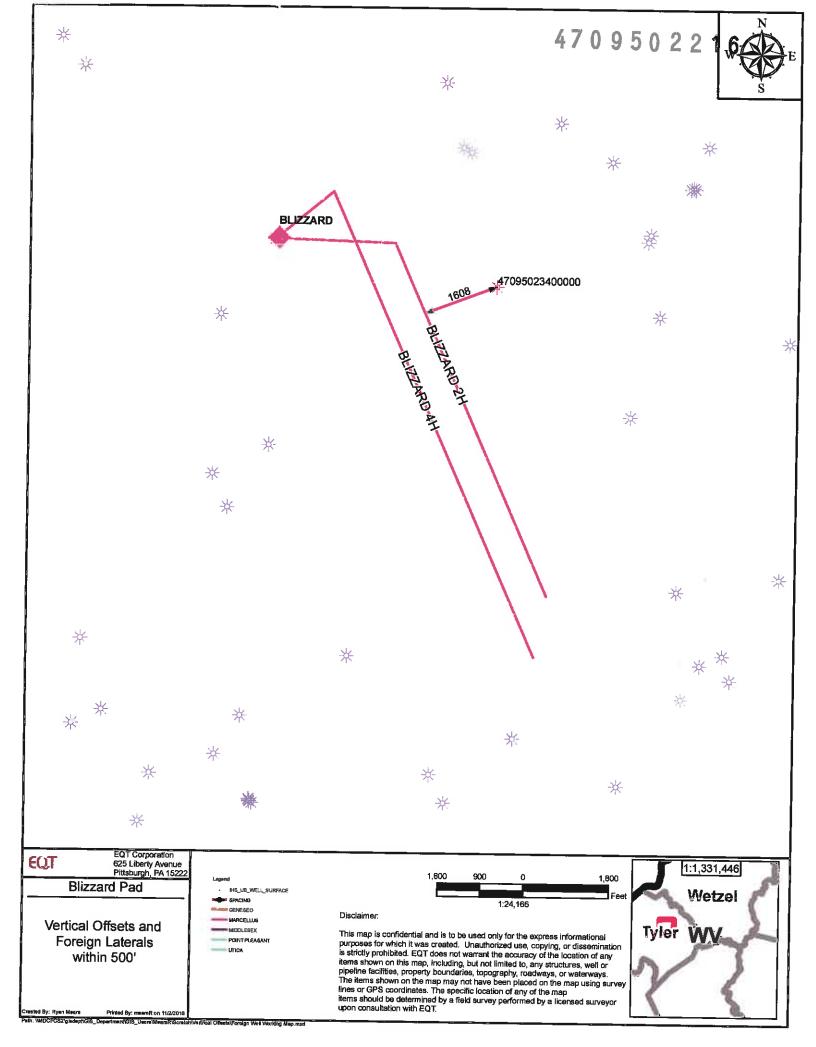
If you have any questions, please do not hesitate to contact me at (304) 848-0076.

Sincerely,

Vicki Roark

Permitting Supervisor-WV

Enc.







Site Specific Safety Plan

<u>EQT</u> Blizzard Unit Pad

Middlebourne Tyler County, WV

_Blizzard 2H _Blizzard 4H	For Wells:	
EQT Production Descriting spercusor	Date Prepared:	October 12, 2016 WV Oil and Gas Inspector Oil 16 or Trypelle Title
11-2-16 Date		Date Office of Oil and Gas
		DEC 14 2016
		WV Department of

Environmental Protection