



COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
OFFICE OF OIL AND GAS MANAGEMENT

DEP USE ONLY	
Auth No. 1253235	APS No.# 981691
Site No. 785466	PF No. 804560
Client No. 268470	SF No. 1185597/1220405



APPLICATION FOR INACTIVE WELL STATUS

Well Operator Rice Drilling B LLC		DEP Client ID No. 268470	Well Permit or Registration No. 059-26986	
Address 2400 Ansys Drive, Suite 200			Well Farm Name Grecoe	Well No. 11H
City Canonsburg		State PA	Zip Code 15317	County Greene
Municipality Gray Twp				
Telephone No. 724-746-9023	Fax No. 724-745-2418	Bond Instrument No. 11936	Is this an application for annual extension of inactive status? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
			Check here if this application is being submitted for conditional inactive status in association with longwall mining: <input type="checkbox"/>	

Condition of the Well
Describe in detail how the condition of the well satisfies the criteria for approval of inactive status. See 25 Pa. Code §§ 78/78a.102(i), (2)(i) or (ii) and (3). Use additional sheets if necessary. If available, attach well records, driller's logs, and other information describing well casing, cement, equipment, and any other pertinent information. Note that if this application is being submitted in conformance with DEP Technical Guidance Document 800-0810-004 *Guidelines for Chain Pillar Development and Longwall Mining Adjacent to Unconventional Wells*, the Well Record/Completion Report may be referenced for all well construction information, and all tubing and annular pressures should be at 0 prior to adjacent longwall mining encroaching within 1,500 feet of the well location. Finally, all annuli should be open to the atmosphere and the inactivation procedure may be referenced under the section titled "Other information about the well's condition."

Well Type: Gas Oil Combination Oil & Gas Injection Storage Disposal

Casing Diameters: 26	Casing Lengths: 40'	Type and amount of cement (sacks) used for surface casing: 1,020 sks of Type 1 cement	
18.625	502'	Tubing or Production Casing Pressure (current): N/A	Tubing or Production Casing Pressure (current): N/A
13.375	1,420'		
9.625	2,713'		
Annulus Pressure (current - between tubing or production casing and surface casing):			
Tubing or production casing diameter:	Tubing or production casing length:	Are all annuli open to atmosphere? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	

Other information about the well's condition:
The wellbore has been air drilled to a depth of 6,887' (6,445' TVD & 32*). The well was blown down dry and shut in and is now awaiting a large rig to drill the tangent, lower curve, and lateral sections of the wellbore. The well has been cased with 9-5/8" casing to a depth of 2,713' and cemented with 780sks of Gas Block cement.

Future Use of the Well
Describe a viable plan in accordance with 25 Pa. Code §78/78a.102(4) explaining the intended use of the well within a reasonable time. Provide the information requested below and any other information necessary for DEP to make a determination on inactive status for this well. Note that if this application is being submitted in conformance with DEP Technical Guidance Document 800-0810-004 *Guidelines for Chain Pillar Development and Longwall Mining Adjacent to Unconventional Wells*, the following text may be entered under the section regarding the future plan for the well: "Return well to production subsequent to final panel extraction when mining is at least 1,500 feet beyond well in chain pillar, as per re-entry procedure and TGD."

Provide certification that one of the following applies (check one):
 Significant reserves remain in place and I plan to return the well to production.
 Provide estimate of reserves: MMcf: 12,036 Bbls: 0
 The well will be used for: Disposal Storage Observation Injection - Recovery Other (describe)
 This well will be returned to use in: Month: TBD Year: 2019

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NOV 21 2018

State your plan for future use of the well.
 EQT plans to return in the third quarter of 2019 to drill the curve and lateral sections of the wellbore then complete stimulation operations and start production in the second quarter of 2020.

**Conditional
 Inactive Status
 Checklist**

For unconventional wells drilled in anticipated chain pillar locations that are being temporarily inactivated to accommodate planned, adjacent longwall mining, please provide the items included in the checklist below in addition to this application. More specific information about these items is detailed in DEP Technical Guidance Document 800-0810-004 *Guidelines for Chain Pillar Development and Longwall Mining Adjacent to Unconventional Wells*.

Please include the following items with the inactive status application:


- Temporary Well Inactivation Procedure Temporary Inactivation Well Schematic General Specifications for Cements/Gels
- Current Well Record and Completion Report Well Location Plat Electrical/Mechanical Well Logs
- Graphical Production History Summary Well Re-entry Procedure Post-mining Well Long-term Monitoring Procedure

Provide additional details, if necessary.

Signature of Applicant (Well Operator)

Signature:  Date: 11/20/2018
 Print or type signer's name and title: John Zavatchan, Landman IV

DEP USE ONLY

Approved Denied Date: 11/15/19
 by (DEP Manager): 



COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
OFFICE OF OIL AND GAS MANAGEMENT

DEP USE ONLY	
Site ID	Client Id
Client Id	Sub Facility Id

Well Record

WELL INFORMATION										
Well Operator Rice Drilling B LLC			DEP ID# 268470		Well API# 37-059-26986-00-00			Well Farm Name Grecoe		Well # 11H
Address 2400 Ansys Drive, Suite 200					LAT 39.920180		NAD 83	Project Number		Serial #
					LONG -80.382914					
City Cannonsburg			State PA	Zip 15317	Municipality Gray Township			County Greene		
Phone 724-746-9029		Fax 724-745-2418		Email BDMaddox@epd.com			USGS 7.5 min. quadrangle map Wind Ridge		Section 6	

Check the appropriate Submission: Original Well Record Amended Well Record

Well Type		<input checked="" type="checkbox"/> Gas <input type="checkbox"/> Oil <input type="checkbox"/> Combination Oil & Gas <input type="checkbox"/> CBM <input type="checkbox"/> Injection <input type="checkbox"/> Disposal <input type="checkbox"/> Storage							
Well Orientation		<input type="checkbox"/> Vertical <input checked="" type="checkbox"/> Deviated from Vertical (Top & Side views & Deviation Survey must be attached)							
Drill Method(s)		<input checked="" type="checkbox"/> Rotary - Air 6,887' <input type="checkbox"/> Rotary - Mud ' <input type="checkbox"/> Cable Tool ' <input type="checkbox"/> Other '							
Drilling Started 11/18/2015		Surface Elev. 1,440 ft.		GW Depth 338 ft.					
Drilling Complete 1/16/2016		True Vertical Depth 6,445 ft.		Depth of DFGW 381 ft.					
Date Well Completed 1/17/2016		Total Measured Depth 6,887 ft.		DFGW decided by: 1&5					
Top Hole Drilling: 1/4/2018 - 1/16/2018									

Wellbore Conditioning:
FRESH WATER: BREAK CIRCULATION W/ H2O @ 5 BPM.
SURFACE: BREAK CIRCULATION W/ H2O @ 5 BPM.
INTERMEDIATE: BREAK CIRCULATION W/ H2O @ 5 BPM.

CEMENT		
Cement returned on surface casing?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If No, provide depth to top of cement and method used to determine:
Cement returned on coal protective casing?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If No, provide depth to top of cement and method used to determine: <input checked="" type="checkbox"/> NA
Cement returned on intermediate casing?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If No, provide depth to top of cement and method used to determine: <input checked="" type="checkbox"/> NA

Casing String	Type/Class of Cement (Lead/Tail)	Slurry Temp F°	Amount of Cement (sks) (Lead/Tail/Total)	WOC hrs	WK PPG	Yrd #/3 T/E	Gas Migration Controls Used
Conductor	Concrete	72°	7 / 7	8			What controls were used, if any (additives/hardware). Specify type and depth applicable.
Fresh Water	Type 1	81°	700 / 700	22	Tail: 15.6	Tail: 1.20	
Surface	Type 1	77°	1,020 / 1,020	22	Tail: 15.6	Tail: 1.20	
Intermediate	Gas Block / Gas Block	72°	580 / 200 / 780	8	Lead: 14.5 Tail: 15.7	Lead: 1.55 Tail: 1.29	
If additional strings attach form(s)			Total	2,507 sks			

CASING AND TUBING												
Hole Size	Pipe Size	Wt. #/ft.	Grade Casing / Tubing Type	Thread / Weld - New/ Used	Amount in Well (ft.)	CO	R	Hardware - Baskets / Packer / Centralizers (Total/String)			Date Run	
								Type	Size	Depth		
30	26	67	L/S	T - N	40	US	Y	N/A	N/A	N/A	11/18/2015	
24	18.625	87.5	K-55	T - N	502'	GB	Y	Centralizers: 3 Cement Baskets: N/A Float Shoe: 1 Float Collar: 1	Centralizers: 24" Cement Baskets: 24" Float Shoe: 19 5/8" Float Collar: 19 5/8"	Centralizers: 105-498' Cement Baskets: N/A Float Shoe: 500' Float Collar: 459'	1/5/2016	
17.5	13.375	48	J-55	T - N	1,420'	US	Y	Centralizers: 8 Cement Baskets: 1 Float Shoe: 1 Float Collar: 1	Centralizers: 17 1/4" Cement Baskets: 17 1/2" Float Shoe: 14 3/8" Float Collar: 14 3/8"	Centralizers: 67-1,416' Cement Baskets: 893' Float Shoe: 1,418" Float Collar: 1,375'	1/8/2016	
12.375	9.625	36	J-55	T - N	2,713'	US	Y	Centralizers: 14 Float Shoe: 1 Float Collar: 1	Centralizers: 12 1/8" Float Shoe: 10 5/8" Float Collar: 10 5/8"	Centralizers: 91-2,709' Float Shoe: 2,711' Float Collar: 2,667'	1/10/2016	

If any casing is welded, provide the name(s) of the welder(s): N/A

PLUG-BACK/WELLBORE ALTERATION						
Fill Material & Plugs	Depth		Date	Casing & Tubing		
	From	To		Size	Pulled	Left

LOG OF FORMATIONS

Well API#: 37-059-26986-00-00

(If you will need more space than this page, please photocopy the blank form before filling it in.)

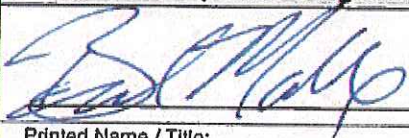
Formation Name or Lithology	Top (feet)	Bottom (feet)	Gas at (feet)	Oil at (feet)	Water at (fresh / brine; ft.)	Source of Data
SAND/SHALE	1	910			F - 338, 381	Geologist-Driller's Log
WAYNESBURG COAL	908	913				Geologist-Driller's Log
SAND/SHALE	913	1217				Geologist-Driller's Log
PITTSBURGH COAL	1217	1223				Geologist-Driller's Log
SAND/SHALE	1223	2385			B - 1,544, 2,082	Geologist-Driller's Log
BIG LIME	2385	2428				Geologist-Driller's Log
SAND/SHALE	2428	2440				Geologist-Driller's Log
BURGOON	2440	2680				Geologist-Driller's Log
SAND/SHALE	2680	3031				Geologist-Driller's Log
BEREA	3031	3051				Geologist-Driller's Log
SAND/SHALE	3051	3171				Geologist-Driller's Log
GANTZ	3171	3180				Geologist-Driller's Log
SAND/SHALE	3180	3197				Geologist-Driller's Log
FIFTY FOOT	3197	3249				Geologist-Driller's Log
SAND/SHALE	3249	3284			B - 3,279	Geologist-Driller's Log
THIRTY FOOT	3284	3319				Geologist-Driller's Log
SAND/SHALE	3319	3366				Geologist-Driller's Log
GORDON	3366	3388				Geologist-Driller's Log
SAND/SHALE	3388	3447			B - 3,403	Geologist-Driller's Log
FOURTH SAND	3447	3457				Geologist-Driller's Log
SAND/SHALE	3457	3517				Geologist-Driller's Log
BAYARD	3517	3526				Geologist-Driller's Log
SAND/SHALE	3526	3991				Geologist-Driller's Log
WARREN	3991	4009				Geologist-Driller's Log
SAND/SHALE	4009	4099				Geologist-Driller's Log
SPEECHLEY	4102	4223				Geologist-Driller's Log
SAND/SHALE	4223	4271				Geologist-Driller's Log
BALLTOWN	4271	4430				Geologist-Driller's Log
SAND/SHALE	4430	4466				Geologist-Driller's Log
BRADFORD	4466	4548				Geologist-Driller's Log
SAND/SHALE	4548	5326				Geologist-Driller's Log
BENSON	5326	5370				
SAND/SHALE	5370	5652				
ALEXANDER	5652	5680				
ELK	5983	6,445				

Open hole logs were taken on well(s) 3705925905 & 3705926963 and used to help determine formations

If no show of oil, gas or water, explain why: No oil or gas shows were seen while drilling this well

WELL SERVICE COMPANIES (Provide the name, address, and telephone number of all well service companies involved.)			
Casing Source	Cementing Company	Hardware Supplier	Logging Company
Name American Tubular, LLC	Name Universal Well Service	Name Summit Casing Equipment	Name Vaughn Energy Services
Address 216 16 th Street, Suite 1600	Address 730 Braddock View Dr.	Address 6575 Corporation Parkway	Address P.O. Box 261021
City - State - Zip Denver, CO 80202	City - State - Zip Uniontown, PA 15401	City - State - Zip Fort Worth, TX 76126	City - State - Zip Corpus Christi, TX 78246-1021
Phone 303-542-1820	Phone 724-430-6201	Phone 877-860-0969	Phone 361-767-0602
Hardware Supplier			
Name Blackhawk Specialty Tools			
Address 235 Marcellus Dr.			
City - State - Zip Muncy, PA 17756			
Phone 570-323-7100			

I do hereby certify to the best of my knowledge, information and belief that the well identified on this Well Record has been properly cased and cemented in accordance with the requirements of 25 Pa. Code Chapter 78 and any conditions contained in the permit for this well. In addition, I do hereby certify that any casing which is attached to a blow-out preventer with a pressure rating greater than 3,000 psi has passed a pressure test in accordance with 25 Pa. Code §78.84(f). I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

Driller		Well Operator's Signature		DEP USE ONLY	
Name Northeast Energy	Rig 29			Reviewed by:	
Address 2018 South Sixth Street				Date:	
City - State - Zip Indiana, PA 15701		Printed Name / Title: Mr. Brad Maddox / VP Drilling and Completions		Comments:	
Phone 724-465-7958		Date: 11/15/2018			



Where energy meets innovation.

EQT PRODUCTION

Greene County, PA

Grecoe Pad (COAL BOX)

Grecoe 11H - Slot Grecoe 11H

Main

Design: Grecoe 11H As Drilled

Standard Survey Report

15 November, 2018



Where energy meets innovation.

EQT Survey Report

Database: EDM_Definitive	Local Co-ordinate Reference: Well Grecoe 11H - Slot Grecoe 11H
Company: EQT PRODUCTION	TVD Reference: 13.3 @ 1473.300usft
Project: Greene County, PA	MD Reference: 13.3 @ 1473.300usft
Site: Grecoe Pad (COAL BOX)	North Reference: Grid
Well: Grecoe 11H	Survey Calculation Method: Minimum Curvature
Wellbore: Main	
Design: Grecoe 11H As Drilled	

Project Greene County, PA		
Map System: US State Plane 1927 (Exact solution)	System Datum: Mean Sea Level	
Geo Datum: NAD 1927 (NADCON CONUS)		
Map Zone: Pennsylvania South 3702		

Site Grecoe Pad (COAL BOX)			
Site Position:	Northing: 224,726.622 usft	Latitude: 39.92	
From: Map	Easting: 1,262,444.693 usft	Longitude: -80.38	
Position Uncertainty: 0.000 usft	Slot Radius: 13-3/16 "	Grid Convergence: -1.7062 °	

Well Grecoe 11H - Slot Grecoe 11H					
Well Position	+N/-S 0.000 usft	Northing: 224,735.885 usft	Latitude: 39.9201041		
	+E/-W 0.000 usft	Easting: 1,262,302.415 usft	Longitude: 80.3803530°W		
Position Uncertainty	0.000 usft	Wellhead Elevation: usft	Ground Level: 1,460.000 usft		

Wellbore Main					
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	11/12/2018	-8.9767	66.8973	52,040.48051589

Design Grecoe 11H As Drilled					
Audit Notes:					
Version: 1.0	Phase: ACTUAL	Tie On Depth: 0.000			
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)	
	0.000	0.000	0.000	215.312	

Survey Program		Date 11/15/2018
From (')	To (usft)	Survey (Wellbore)
0.00	2,710.000	Gyro (Main)
0.00	6,900.000	Baker MWD (Main)
		Tool Name
		MWD
		MWD+IGRF
		Description
		MWD - Standard
		MWD+IGRF v3:standard declination

Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	Subsea Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.000	0.000	0.000	0.000	-1,473.300	0.000	0.000	0.000	0.00000	0.00000	0.00000
50.000	0.560	24.417	49.999	-1,423.301	0.222	0.101	-0.240	1.12000	1.12000	0.00000
100.000	0.490	12.857	99.997	-1,373.303	0.653	0.250	-0.677	0.25323	-0.14000	-23.12000
150.000	0.490	17.157	149.995	-1,323.305	1.066	0.360	-1.078	0.07353	0.00000	8.60000
200.000	0.420	7.987	199.994	-1,273.306	1.452	0.449	-1.444	0.20160	-0.14000	-18.34000
250.000	0.500	12.437	249.992	-1,223.308	1.846	0.521	-1.808	0.17511	0.16000	8.90000
300.000	0.480	356.257	299.990	-1,173.310	2.268	0.555	-2.172	0.27865	-0.04000	-32.36000
350.000	0.650	1.607	349.988	-1,123.312	2.761	0.549	-2.570	0.35563	0.34000	10.70000



EQT Survey Report

Database: EDM_Definitive Company: EQT PRODUCTION Project: Greene County, PA Site: Grecoe Pad (COAL BOX) Well: Grecoe 11H Wellbore: Main Design: Grecoe 11H As Drilled	Local Co-ordinate Reference: TVD Reference: MD Reference: North Reference: Survey Calculation Method:	Well Grecoe 11H - Slot Grecoe 11H 13.3 @ 1473.300usft 13.3 @ 1473.300usft Grid Minimum Curvature
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Survey											
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	Subsea Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
400.000	0.660	348.137	399.985	-1,073.315	3.326	0.498	-3.002	0.30790	0.02000	-26.94000	
442.000	0.620	343.827	441.982	-1,031.318	3.781	0.385	-3.308	0.14896	-0.09524	-10.26191	
508.000	0.950	336.897	507.976	-965.324	4.627	0.070	-3.817	0.51938	0.50000	-10.50000	
570.000	1.320	338.217	569.963	-903.337	5.763	-0.396	-4.474	0.59822	0.59677	2.12903	
632.000	1.640	347.937	631.943	-841.357	7.294	-0.847	-5.463	0.65425	0.51613	15.67742	
700.000	2.410	356.487	699.900	-773.400	9.673	-1.138	-7.235	1.21332	1.13235	12.57353	
800.000	2.880	7.127	799.794	-673.506	14.264	-0.955	-11.088	0.67779	0.47000	10.64000	
900.000	2.100	1.987	899.699	-573.601	18.588	-0.580	-14.833	0.81056	-0.78000	-5.14000	
1,000.000	1.010	358.447	999.660	-473.640	21.300	-0.540	-17.069	1.09371	-1.09000	-3.54000	
1,100.000	0.420	3.967	1,099.652	-373.648	22.547	-0.539	-18.087	0.59332	-0.59000	5.52000	
1,200.000	0.720	19.497	1,199.647	-273.653	23.505	-0.304	-19.005	0.33478	0.30000	15.53000	
1,300.000	0.590	46.007	1,299.641	-173.659	24.455	0.276	-20.115	0.32592	-0.13000	26.51000	
1,400.000	0.840	337.317	1,399.634	-73.665	25.489	0.364	-21.010	0.83274	0.25000	-68.69000	
1,500.000	1.290	347.597	1,499.617	26.317	27.264	-0.160	-22.155	0.48712	0.45000	10.28000	
1,600.000	1.130	347.917	1,599.595	126.295	29.328	-0.608	-23.580	0.16014	-0.16000	0.32000	
1,700.000	1.580	0.097	1,699.567	226.267	31.671	-0.813	-25.374	0.53185	0.45000	12.18000	
1,800.000	2.240	29.437	1,799.513	326.213	34.752	0.150	-28.445	1.15899	0.66000	29.34000	
1,900.000	2.750	42.057	1,899.418	426.119	38.235	2.718	-32.771	0.74670	0.51000	12.62000	
2,000.000	2.420	69.347	1,999.320	526.020	40.761	6.300	-36.903	1.26071	-0.33000	27.29000	
2,100.000	1.190	136.267	2,099.278	625.978	40.755	8.994	-38.455	2.23918	-1.23000	66.92000	
2,200.000	1.640	174.617	2,199.249	725.949	38.580	9.846	-37.173	1.02202	0.45000	38.35000	
2,300.000	1.100	186.067	2,299.220	825.920	36.201	9.879	-35.251	0.60282	-0.54000	11.45000	
2,400.000	1.750	65.997	2,399.203	925.904	35.867	11.173	-35.726	2.49024	0.65000	-120.07000	
2,500.000	1.610	65.707	2,499.160	1,025.861	37.066	13.848	-38.251	0.14026	-0.14000	-0.29000	
2,600.000	0.640	341.877	2,599.145	1,125.845	38.175	14.955	-39.796	1.66736	-0.97000	-83.83000	
Final Gyro Survey=2710' MD'2709' TVD											
2,710.000	1.260	277.247	2,709.132	1,235.832	38.912	13.564	-39.593	1.03896	0.56364	-58.75455	
2,796.000	1.860	271.057	2,795.099	1,321.799	39.057	11.230	-38.362	0.72366	0.69767	-7.19767	
2,891.000	0.950	30.487	2,890.083	1,416.783	39.764	10.088	-38.279	2.59945	-0.95789	125.71579	
2,985.000	2.300	67.897	2,984.045	1,510.745	41.145	12.231	-40.645	1.75490	1.43617	39.79787	
3,079.000	1.390	313.467	3,078.017	1,604.717	42.640	13.152	-42.397	3.34146	-0.96809	-121.73405	
3,174.000	2.250	332.767	3,172.969	1,699.669	45.091	11.462	-43.420	1.09949	0.90526	20.31579	
3,268.000	3.590	9.327	3,266.852	1,793.552	49.636	11.094	-46.916	2.37213	1.42553	38.89362	
3,362.000	2.410	26.717	3,360.723	1,887.423	54.306	12.460	-51.516	1.57167	-1.25532	18.50000	
3,456.000	1.220	205.627	3,454.703	1,981.403	55.169	12.916	-52.484	3.86155	-1.26596	190.32979	
3,550.000	2.540	216.987	3,548.650	2,075.350	52.603	11.230	-49.416	1.45234	1.40426	12.08511	
3,645.000	1.050	203.367	3,643.601	2,170.301	50.122	9.618	-46.460	1.62053	-1.56842	-14.33684	
3,740.000	1.560	36.747	3,738.592	2,265.292	50.359	10.047	-46.901	2.72938	0.53684	-175.38948	
3,835.000	1.450	132.967	3,833.571	2,360.271	50.576	11.700	-48.034	2.35981	-0.11579	101.28421	
3,929.000	4.240	172.227	3,927.453	2,454.153	46.322	13.041	-45.337	3.45671	2.96809	41.76596	
4,024.000	5.760	177.977	4,022.089	2,548.789	38.077	13.684	-38.981	1.68275	1.60000	6.05263	



EQT Survey Report

Database: EDM_Definitive Company: EQT PRODUCTION Project: Greene County, PA Site: Grecoe Pad (COAL BOX) Well: Grecoe 11H Wellbore: Main Design: Grecoe 11H As Drilled	Local Co-ordinate Reference: TVD Reference: MD Reference: North Reference: Survey Calculation Method:	Well Grecoe 11H - Slot Grecoe 11H 13.3 @ 1473.300usft 13.3 @ 1473.300usft Grid Minimum Curvature
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Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	Subsea Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
4,118.000	7.360	189.017	4,115.474	2,642.174	27.416	12.907	-29.832	2.15997	1.70213	11.74468
4,213.000	9.070	202.727	4,209.505	2,736.205	14.497	9.060	-17.067	2.72523	1.80000	14.43158
4,308.000	12.380	210.727	4,302.837	2,829.538	-1.169	0.961	0.398	3.81235	3.48421	8.42105
4,403.000	16.940	216.057	4,394.725	2,921.425	-21.123	-12.396	24.402	5.00071	4.80000	5.61053
4,498.000	20.920	223.017	4,484.580	3,011.280	-44.725	-32.123	55.065	4.80981	4.18947	7.32632
4,593.000	21.910	229.737	4,573.034	3,099.734	-68.586	-57.224	89.044	2.78326	1.04211	7.07368
4,687.000	23.590	231.707	4,659.719	3,186.419	-91.578	-85.371	124.077	1.96217	1.78723	2.09574
4,785.000	28.180	224.847	4,747.883	3,274.583	-120.158	-117.104	165.741	5.58552	4.68367	-7.00000
4,880.000	30.990	218.017	4,830.513	3,357.213	-155.347	-148.001	212.315	4.61640	2.95789	-7.18947
4,973.000	33.390	216.617	4,909.213	3,435.913	-194.756	-178.015	261.822	2.70223	2.58065	-1.50538
5,067.000	37.490	219.107	4,985.784	3,512.484	-237.735	-211.502	316.250	4.62347	4.36170	2.64894
5,162.000	38.630	218.847	5,060.583	3,587.283	-283.265	-248.339	374.696	1.21180	1.20000	-0.27368
5,257.000	37.270	216.917	5,135.496	3,662.196	-329.361	-284.219	433.051	1.89995	-1.43158	-2.03158
5,351.000	36.990	213.107	5,210.449	3,737.149	-375.811	-316.765	489.767	2.46438	-0.29787	-4.05319
5,445.000	35.260	214.787	5,286.375	3,813.075	-421.787	-347.694	545.162	2.12056	-1.84043	1.78723
5,539.000	36.310	214.427	5,362.628	3,889.328	-467.028	-378.909	600.123	1.13924	1.11702	-0.38298
5,632.000	38.260	215.407	5,436.619	3,963.319	-513.215	-411.162	656.455	2.19174	2.09677	1.05376
5,726.000	37.090	211.987	5,511.026	4,037.726	-560.984	-443.043	713.864	2.54793	-1.24468	-3.63830
5,820.000	37.310	212.947	5,585.901	4,112.601	-608.932	-473.551	770.625	0.66032	0.23404	1.02128
5,913.000	38.590	215.087	5,659.237	4,185.937	-656.322	-505.554	827.794	1.97388	1.37634	2.30108
6,007.000	40.160	214.827	5,731.898	4,258.598	-705.196	-539.718	887.424	1.67940	1.67021	-0.27660
6,102.000	39.540	213.167	5,804.834	4,331.534	-755.657	-573.757	948.277	1.29595	-0.65263	-1.74737
6,196.000	37.930	210.777	5,878.160	4,404.860	-805.532	-604.913	1,006.985	2.33740	-1.71277	-2.54255
6,273.000	37.070	210.137	5,939.248	4,465.948	-845.936	-628.675	1,053.690	1.22614	-1.11688	-0.83117
6,360.000	35.550	209.987	6,009.352	4,536.053	-890.522	-654.482	1,104.990	1.75011	-1.74713	-0.17241
6,446.000	34.390	214.257	6,079.835	4,606.535	-932.258	-680.654	1,154.175	3.14851	-1.34884	4.96512
6,545.000	34.180	216.127	6,161.635	4,688.336	-977.830	-712.788	1,209.937	1.08493	-0.21212	1.88889
6,639.000	33.970	213.037	6,239.502	4,766.202	-1,021.176	-742.675	1,262.584	1.85510	-0.22340	-3.28723
6,734.000	33.330	207.327	6,318.603	4,845.303	-1,066.625	-769.132	1,314.964	3.39693	-0.67368	-6.01053
Final MWD Survey=6833' MD/6402' TVD										
6,833.000	32.280	208.577	6,401.814	4,928.515	-1,114.005	-794.264	1,368.154	1.26203	-1.06061	1.26263
PROJ to TD=6900' MD/6459' TVD										
6,900.000	32.280	208.577	6,458.460	4,985.160	-1,145.428	-811.380	1,403.689	0.00000	0.00000	0.00000

Design Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
2,710.000	2,709.132	38.912	13.564	Final Gyro Survey=2710' MD'2709' TVD
6,833.000	6,401.814	-1,114.005	-794.264	Final MWD Survey=6833' MD/6402' TVD
6,900.000	6,458.460	-1,145.428	-811.380	PROJ to TD=6900' MD/6459' TVD



Where energy meets innovation.

EQT Survey Report

Database:	EDM_Definitive	Local Co-ordinate Reference:	Well Grecoe 11H - Slot Grecoe 11H
Company:	EQT PRODUCTION	TVD Reference:	13.3 @ 1473.300usft
Project:	Greene County, PA	MD Reference:	13.3 @ 1473.300usft
Site:	Grecoe Pad (COAL BOX)	North Reference:	Grid
Well:	Grecoe 11H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Main		
Design:	Grecoe 11H As Drilled		

Checked By: _____ Approved By: _____ Date: _____

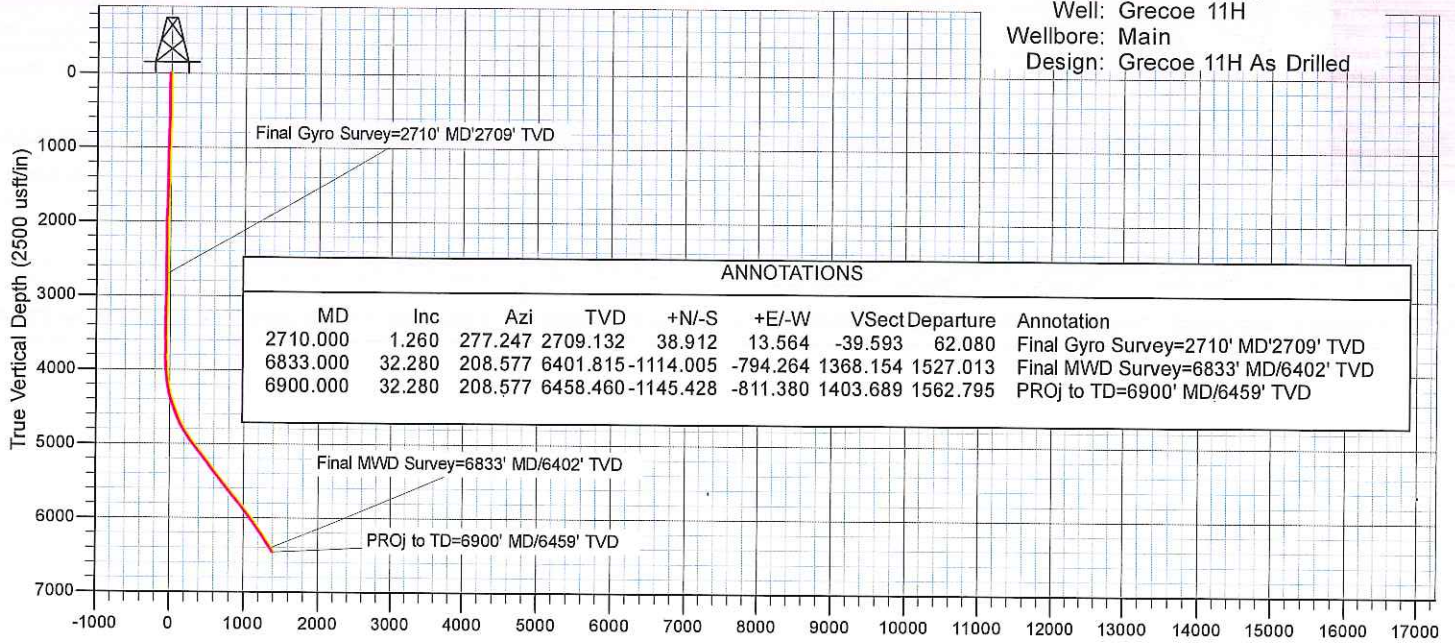


Where energy meets innovation.

KB Elevation= 13.3 @ 1473.300usft
 Ground Elevation= 1460.000
 All measurements were taken from KB Elevation

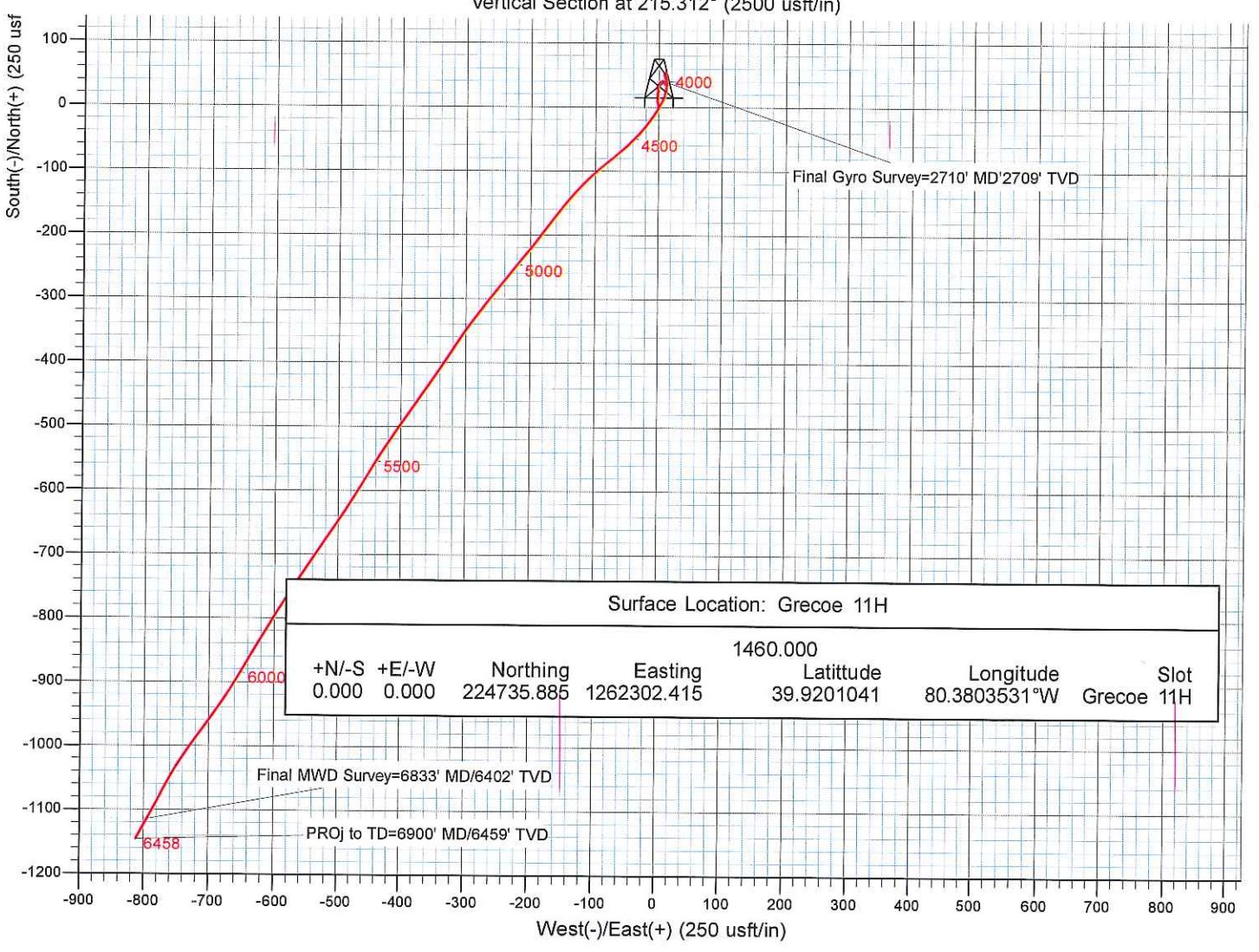
EQT PRODUCTION

Project: Greene County, PA
 Site: Grecoe Pad (COAL BOX)
 Well: Grecoe 11H
 Wellbore: Main
 Design: Grecoe 11H As Drilled



ANNOTATIONS

MD	Inc	Azi	TVD	+N-S	+E-W	VSect	Departure	Annotation
2710.000	1.260	277.247	2709.132	38.912	13.564	-39.593	62.080	Final Gyro Survey=2710' MD/2709' TVD
6833.000	32.280	208.577	6401.815	-1114.005	-794.264	1368.154	1527.013	Final MWD Survey=6833' MD/6402' TVD
6900.000	32.280	208.577	6458.460	-1145.428	-811.380	1403.689	1562.795	PROJ to TD=6900' MD/6459' TVD



Surface Location: Grecoe 11H

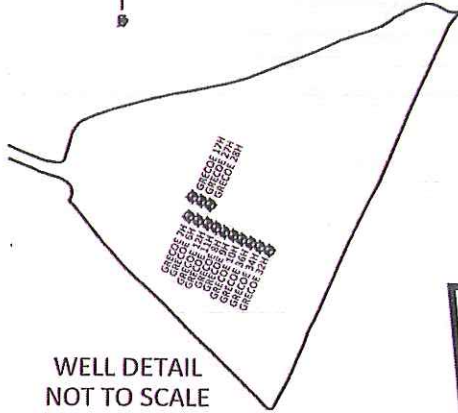
				1460.000			
+N-S	+E-W	Northing	Easting	Latitude	Longitude	Slot	
0.000	0.000	224735.885	1262302.415	39.9201041	80.3803531°W	Grecoe 11H	

WELL LOCATION PLAT

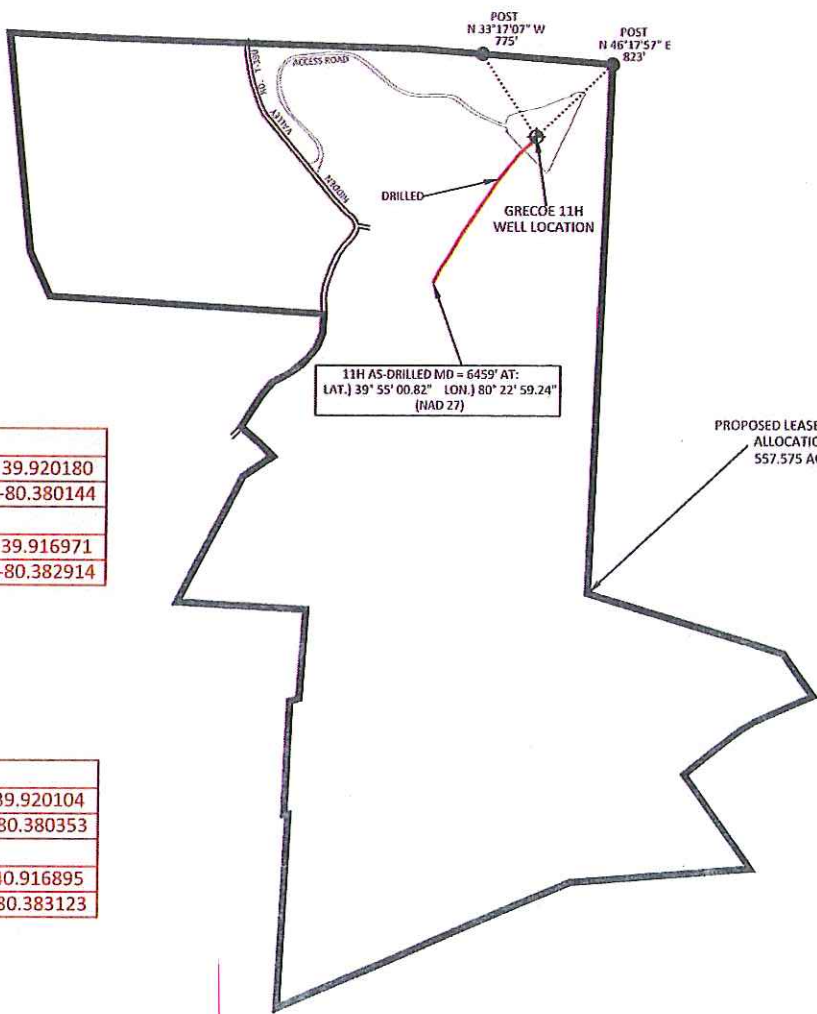
Page 3 Plan View of Deviated Well Bore

If well has a lateral other than vertical show the bottom hole location on the plat drawing as and include the coordinates in the provided section at the bottom of the drawing area. The top hole and bottom hole locations are to be connected by a bolded line to depict the proposed courses of the actual wellbore to be drilled

Applicant / Well Operator Name: RICE DRILLING B LLC	DEP ID#: 268470	Well (Farm) Name: GRECOE	Well #: 11H
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WELL CLUSTER AREA IS < 5,000 SQ. FT.



**AS-DRILLED
PA SOUTH NAD 83
COORDINATES**

TOPHOLE			
LAT.)	39° 55' 12.65"	LAT.)	39.920180
LONG.)	80° 22' 48.52"	LONG.)	-80.380144
AS-DRILLED TMD AT 6459'			
LAT.)	39° 55' 01.10"	LAT.)	39.916971
LONG.)	80° 22' 58.49"	LONG.)	-80.382914

11H AS-DRILLED MD = 6459' AT:
LAT.) 39° 55' 00.82" LONG.) 80° 22' 59.24"
(NAD 27)

PROPOSED LEASE PRODUCTION
ALLOCATION AREA
557.575 ACRES +/-

**AS-DRILLED
PA SOUTH NAD 27
COORDINATES**

TOPHOLE			
LAT.)	39° 55' 12.37"	LAT.)	39.920104
LONG.)	80° 22' 49.27"	LONG.)	-80.380353
AS-DRILLED TMD AT 6459'			
LAT.)	39° 55' 00.82"	LAT.)	40.916895
LONG.)	80° 22' 59.24"	LONG.)	-80.383123

SYMBOLS
 11H WELL LOCATION

LINE TYPES
BORE PATH
PROPOSED LEASE PRODUCTION ALLOCATION AREA
TIE LINE

SCALE: 1" = 1500'



NOTE:
It is not the purpose or intention of this plat to represent surveyed locations of the surface or mineral parcels depicted herein. The location of the boundary lines, as shown are based on recorded deed descriptions, field evidence found, aerial mapping and/or tax map portion, unless otherwise noted.

AS-DRILLED
NOVEMBER 13, 2018



November 20, 2018

Via FedEx Overnight Delivery

Pennsylvania Department of Environmental Protection
Attn: Mr. Joel Keller
Bureau of Oil & Gas Management
400 Waterfront Drive
Pittsburgh, PA 15222-4745

RECEIVED

NOV 21 2018

DEP SWDO
OIL & GAS

RE: Inactive Status Request
Grecoe Well Site
Gray Township
Greene County

Dear DEP Recipient:

Please find attached completed form 5500-FM-OG0056 "Application for Inactive Status Request," completed form 8000-FM-OOGM0004aU "Well Record" and supporting documentation for the following well:

- Grecoe 11H – Permit Number 059-26986

Rice Drilling B LLC trusts that if any portion of the submitted documentation is found to be inadequate for processing this request, notification will be made to our permitting department at your earliest convenience.

Best Regards,

A handwritten signature in blue ink, appearing to read "John Zavatchan".

John Zavatchan
Landman - Permitting
jzavatchan@egt.com
724-746-9073

OIL AND GAS TRANSMITTAL

From: Abby Hartman	To: Joel Keller
Date: 11/27/2018	Return By: 12/26/2018

The following item(s) were received in the SWDO on 11/21/2018 and are forwarded for your action:

Application for Inactive Status

The Above Item(s) Pertain To Permit:

AUTH ID: 1253235	PERMIT #059-26986	MUNICIPALITY Gray	COUNTY Greene
OPERATOR: Rice Drilling B LLC			
WELL PAD: Grecoe	WELL #11H	SITE ID# 785466	

Comments By Reviewing Geologist: Click or tap here to enter text.

Action Taken By Reviewing Field Personnel:

<input checked="" type="checkbox"/> APPROVED	<input type="checkbox"/> APPROVED WITH COMMENTS
<input type="checkbox"/> APPROVED WITH CONDITIONS	<input type="checkbox"/> DISAPPROVED WITH COMMENTS
COMMENTS: Click or tap here to enter text.	

Joel Keller

1/14/2019

Signature of Reviewing Personnel

Date

Action Taken by Reviewing Supervisor:

<input checked="" type="checkbox"/> APPROVED	<input type="checkbox"/> APPROVED WITH COMMENTS
<input type="checkbox"/> APPROVED WITH CONDITIONS	<input type="checkbox"/> DISAPPROVED WITH COMMENTS
COMMENTS: Click or tap here to enter text.	

Scott M. Sabocheck

1/14/2019

Signature of Supervisor

Date

PLEASE RETURN TO THE SWDO WITHIN 30 DAYS OF RECEIPT.

Transmittal Folder