

State of West Virginia
Department of Environmental Protection - Office of Oil and Gas
Well Operator's Report of Well Work

API 47 - 103 - 02954 County Wetzel District Proctor
Quad New Martinsville Pad Name Erlewine Field/Pool Name Mary
Farm name Erlewine, Richard Well Number #8H
Operator (as registered with the OOG) EQT Production Company
Address 2400 Ansys Drive, Suite 200 City Canonsburg State PA Zip 15317

As Drilled location NAD 83/UTM Attach an as-drilled plat, profile view, and deviation survey
Top hole Northing 4,392,644 Easting 517,395
Landing Point of Curve Northing 4,392,401 Easting 517,628
Bottom Hole Northing 4,391,069 Easting 518,100

Elevation (ft) 1,212 GL Type of Well New Existing Type of Report Interim Final
Permit Type Deviated Horizontal Horizontal 6A Vertical Depth Type Deep Shallow
Type of Operation Convert Deepen Drill Plug Back Redrilling Rework Stimulate
Well Type Brine Disposal CBM Gas Oil Secondary Recovery Solution Mining Storage Other _____
Type of Completion Single Multiple Fluids Produced Brine Gas NGL Oil Other _____
Drilled with Cable Rotary

Drilling Media Surface hole Air Mud Fresh Water Intermediate hole Air Mud Fresh Water Brine
Production hole Air Mud Fresh Water Brine
Mud Type(s) and Additive(s)

Date permit issued 1/4/2019 Date drilling commenced _____ Date drilling ceased _____
Date completion activities began 4/7/2019 Date completion activities ceased 4/11/2019
Verbal plugging (Y/N) N Date permission granted N/A Granted by N/A

Please note: Operator is required to submit a plugging application within 5 days of verbal permission to plug

RECEIVED
Office of Oil and Gas
JUL 09 2019
WV Department of
Environmental Protection

Freshwater depth(s) ft _____ Open mine(s) (Y/N) depths _____
Salt water depth(s) ft _____ Void(s) encountered (Y/N) depths _____
Coal depth(s) ft _____ Cavern(s) encountered (Y/N) depths _____
Is coal being mined in area (Y/N) _____

Reviewed by
Sum

Reviewed by:
DMH

API 47- 103 - 02954 Farm name Erlewine, Richard Well number #8H

CASING STRINGS	Hole Size	Casing Size	Depth	New or Used	Grade wt/ft	Basket Depth(s)	Did cement circulate (Y/ N) * Provide details below*
Conductor							
Surface							
Coal							
Intermediate 1	12.25"						
Intermediate 2							
Intermediate 3							
Production							
Tubing							
Packer type and depth set							

Comment Details _____

CEMENT DATA	Class/Type of Cement	Number of Sacks	Slurry wt (ppg)	Yield (ft ³ /sks)	Volume (ft ³)	Cement Top (MD)	WOC (hrs)
Conductor							
Surface							
Coal							
Intermediate 1							
Intermediate 2							
Intermediate 3							
Production							
Tubing							

Drillers TD (ft) _____ Loggers TD (ft) _____
 Deepest formation penetrated _____ Plug back to (ft) _____
 Plug back procedure _____

Kick off depth (ft) _____

Check all wireline logs run caliper density deviated/directional induction
 neutron resistivity gamma ray temperature sonic

Well cored Yes No Conventional Sidewall Were cuttings collected Yes No

DESCRIBE THE CENTRALIZER PLACEMENT USED FOR EACH CASING STRING _____

WAS WELL COMPLETED AS SHOT HOLE Yes No DETAILS _____

WAS WELL COMPLETED OPEN HOLE? Yes No DETAILS _____

WERE TRACERS USED Yes No TYPE OF TRACER(S) USED _____

RECEIVED
Office of Oil and Gas
JUL - 9 2019
WV Department of
Environmental Protection

Stage Number	Perforation Date	Top Perf Depth (ftKB)	Bottom Perf Depth (ftKB)	Number of Shots	Formation
	3/13/2019	11,551	11,632	20	MARCELLUS
	4/7/2019	11,352	11,533	40	MARCELLUS
	4/8/2019	11,152	11,333	40	MARCELLUS
	4/8/2019	10,952	11,133	40	MARCELLUS
	4/8/2019	10,752	10,933	40	MARCELLUS
	4/8/2019	10,552	10,733	40	MARCELLUS
	4/8/2019	10,352	10,533	40	MARCELLUS
	4/8/2019	10,152	10,333	40	MARCELLUS
	4/9/2019	9,952	10,133	40	MARCELLUS
	4/9/2019	9,752	9,933	40	MARCELLUS
	4/9/2019	9,552	9,733	40	MARCELLUS
	4/9/2019	9,352	9,533	40	MARCELLUS
	4/9/2019	9,152	9,333	40	MARCELLUS
	4/9/2019	8,952	9,133	40	MARCELLUS
	4/10/2019	8,752	8,933	40	MARCELLUS
	4/10/2019	8,552	8,733	40	MARCELLUS
	4/10/2019	8,352	8,533	40	MARCELLUS
	4/10/2019	8,152	8,333	40	MARCELLUS
	4/10/2019	7,952	8,133	40	MARCELLUS
	4/10/2019	7,752	7,933	40	MARCELLUS
	4/10/2019	7,552	7,733	40	MARCELLUS
	4/11/2019	7,392	7,533	32	MARCELLUS

RECEIVED
Office of Oil and Gas
JUL - 9 2019
WV Department of
Environmental Protection

Stage Number	Stimulation Date	Ave Pump Rate (BPM)	Ave Treatment Pressure (PSI)	Max Breakdown Pressure (PSI)	ISIP (PSI)	Amount of Proppant (lbs)	Amount of Water (bbls)	Amount of Nitrogen/other (units)
1	4/7/2019	89.00	8,371	9,432	4,271	237,020	5,158	0
2	4/8/2019	101.00	7,954	8,479	4,983	475,200	8,058	0
3	4/8/2019	100.00	8,006	9,097	5,003	474,900	8,005	0
4	4/8/2019	100.00	7,985	8,382	4,546	475,040	7,641	0
5	4/8/2019	100.00	7,970	8,305	4,279	474,900	7,638	0
6	4/8/2019	100.00	8,123	8,905	4,785	475,360	7,646	0
7	4/8/2019	101.00	7,633	7,872	4,998	475,140	7,700	0
8	4/9/2019	101.00	7,703	8,009	4,897	475,480	7,662	0
9	4/9/2019	101.00	7,769	8,351	4,745	475,280	7,558	0
10	4/9/2019	100.00	7,781	8,886	4,732	475,680	7,562	0
11	4/9/2019	100.00	7,585	7,952	4,547	474,900	7,476	0
12	4/9/2019	100.00	7,498	7,968	4,625	475,000	7,539	0
13	4/9/2019	98.00	8,368	8,610	4,883	474,920	8,724	0
14	4/9/2019	101.00	7,473	7,736	4,961	475,300	7,697	0
15	4/10/2019	101.00	7,798	8,498	4,938	475,680	7,720	0
16	4/10/2019	100.00	7,473	7,729	4,712	475,480	7,536	0
17	4/10/2019	101.00	7,487	8,208	4,506	475,080	7,506	0
18	4/10/2019	101.00	7,367	8,280	4,719	475,380	7,425	0
19	4/10/2019	101.00	7,229	8,335	4,624	475,160	7,439	0
20	4/10/2019	101.00	7,541	8,413	4,526	475,340	7,601	0
21	4/10/2019	100.00	7,735	9,119	4,610	475,220	7,682	0
22	4/11/2019	101.00	7,634	8,434	4,883	380,780	6,223	0

RECEIVED
Office of Oil and Gas
JUL - 9 2019
WV Department of
Environmental Protection

State of West Virginia
Department of Environmental Protection - Office of Oil and Gas
Well Operator's Report of Well Work

API 47 - 103 - 02954 County Wetzel District Proctor
Quad New Martinsville Pad Name Erlewine Field/Pool Name Mary
Farm name Erlewine, Richard Well Number #8H
Operator (as registered with the OOG) Stone Energy Corporation
Address 1300 Fort Pierpont Dr. - Suite 201 City Morgantown State WV Zip 26508

As Drilled location NAD 83/UTM Attach an as-drilled plat, profile view, and deviation survey
Top hole Northing 4,392,644 Easting 517,395
Landing Point of Curve Northing 4,392,410 Easting 517,625
Bottom Hole Northing 4,391,069 Easting 518,100

Elevation (ft) 1,212 GL Type of Well New Existing Type of Report Interim Final
Permit Type Deviated Horizontal Horizontal 6A Vertical Depth Type Deep Shallow
Type of Operation Convert Deepen Drill Plug Back Redrilling Rework Stimulate
Well Type Brine Disposal CBM Gas Oil Secondary Recovery Solution Mining Storage Other _____
Type of Completion Single Multiple Fluids Produced Brine Gas NGL Oil Other _____
Drilled with Cable Rotary

Drilling Media Surface hole Air Mud Fresh Water Intermediate hole Air Mud Fresh Water Brine
Production hole Air Mud Fresh Water Brine
Mud Type(s) and Additive(s)
Saturated salt mud which includes Caustic Soda, Barite, Lime, New-Drill, Perma-Lose HT, Xan-Plex D, X-Cide 102, Soda Ash, and Sodium Chloride

Date permit issued 1/8/2014 Date drilling commenced 7/23/2014 Date drilling ceased 12/24/2014
Date completion activities began Not Yet Completed Date completion activities ceased Not Yet Completed
Verbal plugging (Y/N) N Date permission granted _____ Granted by _____

RECEIVED
Office of Oil and Gas
JUL - 9 2019
WV Department of
Environmental Protection

Please note: Operator is required to submit a plugging application within 5 days of verbal permission to plug
Freshwater depth(s) ft 100 Open mine(s) (Y/N) depths _____
Salt water depth(s) ft 1,671 Void(s) encountered (Y/N) depths N
Coal depth(s) ft 988 and 999 Cavern(s) encountered (Y/N) depths N
Is coal being mined in area (Y/N) N

Reviewed by:

Erlewine #8H
API 47-103-02954
Stone Energy Corporation

	Horizontal		Bottom (ft TVD)	Bottom (ft MD)	
	Top (ft TVD)	Top (ft MD)			
Sandstone & Shale	Surface		*	988	FW @ 100'
Coal	988		*	990	
Sandstone & Shale	990		*	999	
Coal	999		*	1,002	
Sandstone & Shale	1,002		*	2,022	SW @ 1,671'
Little Lime	2,022		*	2,052	
Big Lime	2,052		*	2,152	
Big Injun	2,152		*	2,252	
Sandstone & Shale	2,252		*	2,620	
Berea Sandstone	2,620		*	2,650	
Shale	2,650		*	2,865	
Gordon	2,865		*	2,915	
Undiff Devonian Shale	2,915		*	5,785	5,797
Rhinestreet	5,785	5,797	~	6,103	6,141
Cashaqua	6,103	6,141	~	6,351	6,455
Middlesex	6,351	6,455	~	6,380	6,501
West River	6,380	6,501	~	6,437	6,605
Geneseo	6,437	6,605	~	6,452	6,634
Tully Limestone	6,452	6,634	~	6,495	6,725
Hamilton Shale	6,495	6,725	~	6,542	6,858
Marcellus	6,542	6,858	~	6,692	11,729
TD				6,692	11,729

* From Pilot Hole Log and Driller's Log

~ From MWD Gamma Log

RECEIVED
Office of Oil and Gas
JUL - 9 2019
WV Department of
Environmental Protection



End of Well Report

Erlewine 8H
Curve/Lateral
Saxon 141

Prepared By:
S.Rhodes



RECEIVED
Office of Oil and Gas
JUL - 9 2019
WV Department of
Environmental Protection

TABLE OF CONTENTS

- 1. Directional Plot – Planned vs. Actual**
- 2. Surveys**
- 3. Daily Drilling Reports**
- 4. BHA Summary Reports and Slide Sheets**
- 5. Graphical Job History**
- 6. Support Staff**

RECEIVED
Office of Oil and Gas

JUL - 9 2019

WV Department of
Environmental Protection

Hydraulic Fracturing Fluid Product Component Information Disclosure

Job Start Date:	4/7/2019
Job End Date:	4/11/2019
State:	West Virginia
County:	Wetzel
API Number:	47-103-02954-00-00
Operator Name:	EQT Production
Well Name and Number:	Erlewine 519190
Latitude:	39.68337500
Longitude:	-80.79733200
Datum:	NAD83
Federal Well:	NO
Indian Well:	NO
True Vertical Depth:	6,692
Total Base Water Volume (gal):	7,073,514
Total Base Non Water Volume:	0



Hydraulic Fracturing Fluid Composition:

Trade Name	Supplier	Purpose	Ingredients	Chemical Abstract Service Number (CAS #)	Maximum Ingredient Concentration in Additive (% by mass)**	Maximum Ingredient Concentration in HF Fluid (% by mass)**	Comments
Water	ProFrac	Carrier/Base Fluid					
			Water	7732-18-5	100.00000	85.23020	None
SC-398	ChemStream	Scale Inhibitor					
				Listed Below			

RECEIVED
Office of Oil and Gas
JUL - 9 2019
WV Department of
Environmental Protection

				Non-hazardous substances	Proprietary	90.00000	0.00824	None
				Non-hazardous substances	Proprietary	90.00000	0.00824	
				Glutaraldehyde	111-30-8	20.00000	0.00279	None
				Oleic Acid	93-83-4	2.00000	0.00100	None
				Diethanolamide	68551-12-2	2.00000	0.00100	None
				Alcohols, C12-16, ethodylated	93-83-4	2.00000	0.00100	
				Oleic Acid	68551-12-2	2.00000	0.00100	
				Diethanolamide	93-83-4	2.00000	0.00100	
				Alcohols, C12-16, ethodylated	68551-12-2	2.00000	0.00100	
				Bis(HexaMethylene Triamine Penta (Methylene Phosphonic Acid)(BHMT)	34690-00-1	10.00000	0.00092	None
				Bis(HexaMethylene Triamine Penta (Methylene Phosphonic Acid)(BHMT)	34690-00-1	10.00000	0.00092	
				Ammonium chloride ((NH4)Cl)	12125-02-9	1.00000	0.00050	
				Ammonium chloride ((NH4)Cl)	12125-02-9	1.00000	0.00050	None
				Alkyl dimethyl benzyl ammonium chloride	68391-01-5	3.00000	0.00042	None
				Didecyl dimethyl ammonium chloride	7173-51-5	3.00000	0.00042	None
				Methanol	67-56-1	90.00000	0.00014	None
				Methanol	67-56-1	90.00000	0.00014	
				Xylene	1330-20-7	5.00000	0.00001	
				Xylene	1330-20-7	5.00000	0.00001	None
				Alcohols, C7-9-Iso, C8-Rich	68526-83-0	5.00000	0.00001	
				Alcohols, C7-9-Iso, C8-Rich	68526-83-0	5.00000	0.00001	None
				Imidazoline	61790-69-0	5.00000	0.00001	None
				Isopropanol	67-63-0	5.00000	0.00001	

RECEIVED
Office of Oil and Gas
JUL - 9 2019
WV Department of
Environmental Protection

Well Operator's Report of Well Work



Where energy meets innovation.

Well Number: Erlewine 519190 H8

API: 47 - 103 - 2954

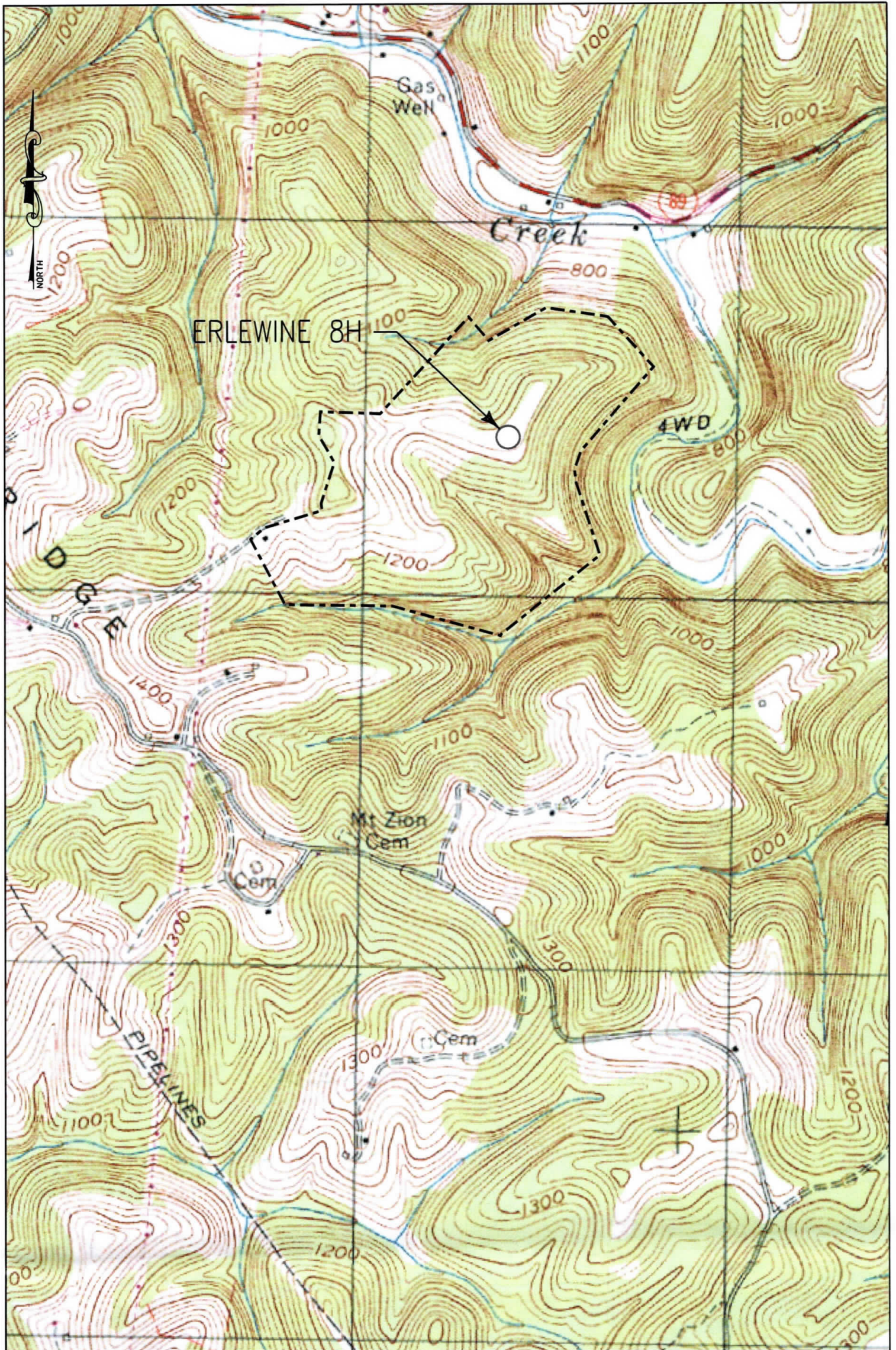
Submission: Initial Amended

Notes: The following amends the original WR-35 submitted by Stone Energy, to include stimulation & wireline operations. This amended version also corrects the As-Drilled landing point curve coordinates and permit issue date.

RECEIVED
Office of Oil and Gas

JUL - 9 2019

WV Department of
Environmental Protection

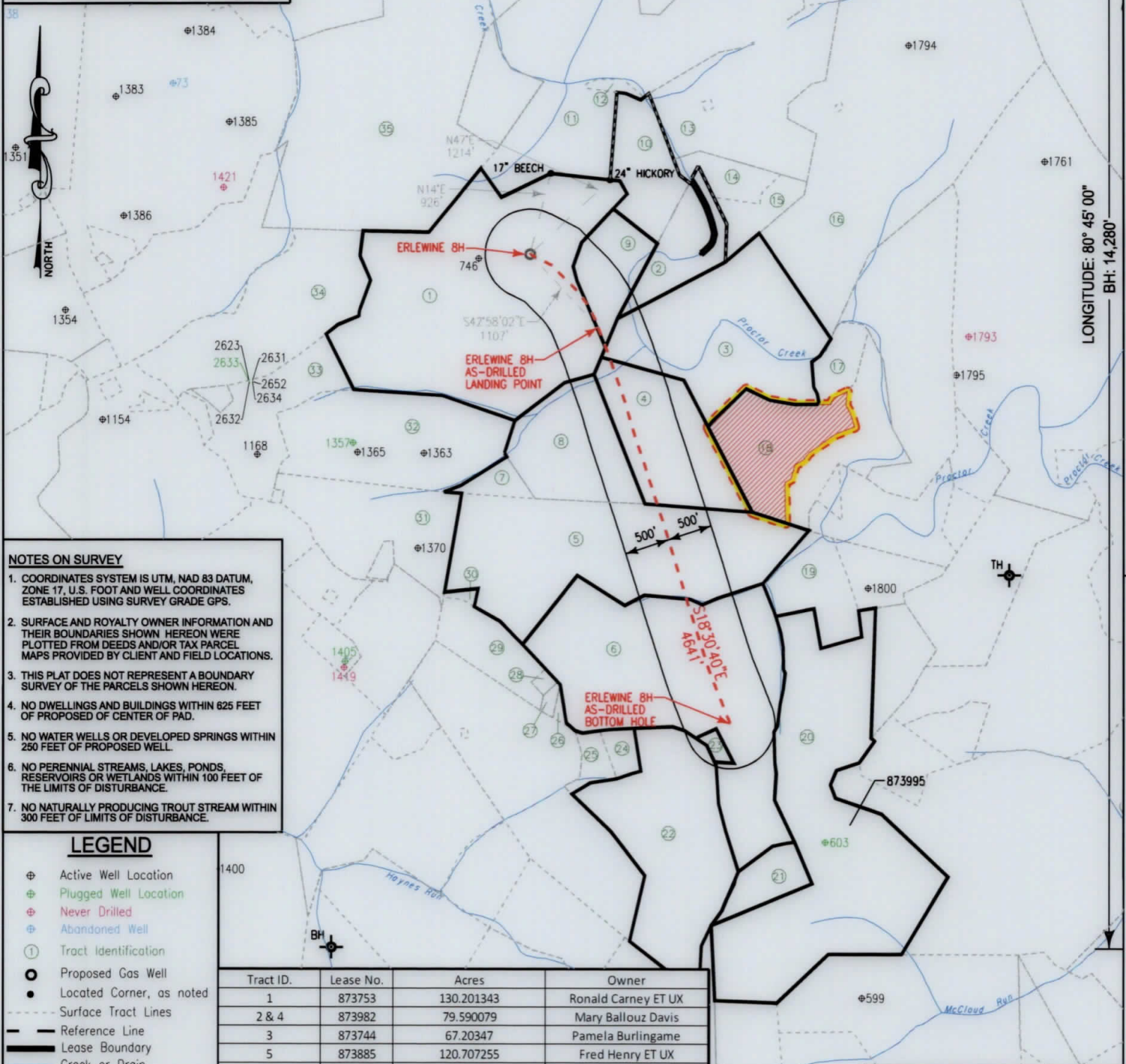


KEYSTONE CONSULTANTS, INC.
 32 EAST MAIN STREET,
 CARNEGIE, PA 15106
 412-278-2100

1" = 1000'
 NEW MARTINSVILLE 7.5'

EQT PRODUCTION COMPANY
 115 PROFESSIONAL PLACE
 PO BOX 280
 BRIDGEPORT, WV 26330

**ERLEWINE 8H
ERLEWINE
EQT Production Company**



- NOTES ON SURVEY**
- COORDINATES SYSTEM IS UTM, NAD 83 DATUM, ZONE 17, U.S. FOOT AND WELL COORDINATES ESTABLISHED USING SURVEY GRADE GPS.
 - SURFACE AND ROYALTY OWNER INFORMATION AND THEIR BOUNDARIES SHOWN HEREON WERE PLOTTED FROM DEEDS AND/OR TAX PARCEL MAPS PROVIDED BY CLIENT AND FIELD LOCATIONS.
 - THIS PLAT DOES NOT REPRESENT A BOUNDARY SURVEY OF THE PARCELS SHOWN HEREON.
 - NO DWELLINGS AND BUILDINGS WITHIN 625 FEET OF PROPOSED OF CENTER OF PAD.
 - NO WATER WELLS OR DEVELOPED SPRINGS WITHIN 250 FEET OF PROPOSED WELL.
 - NO PERENNIAL STREAMS, LAKES, PONDS, RESERVOIRS OR WETLANDS WITHIN 100 FEET OF THE LIMITS OF DISTURBANCE.
 - NO NATURALLY PRODUCING TROUT STREAM WITHIN 300 FEET OF LIMITS OF DISTURBANCE.

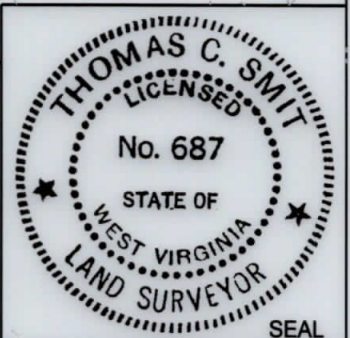
- LEGEND**
- ⊕ Active Well Location
 - ⊕ Plugged Well Location
 - ⊕ Never Drilled
 - ⊕ Abandoned Well
 - ① Tract Identification
 - Proposed Gas Well
 - Located Corner, as noted
 - Surface Tract Lines
 - Reference Line
 - Lease Boundary
 - Creek or Drain
 - ⊙ WV County Route
 - ⊙ WV State Route

(⊕) Denotes Location of Well on United States Topographic Maps



I, the undersigned, hereby certify that this plat is correct to the best of my knowledge and belief and shows all the information required by law and the regulations issued and prescribed by the Department of Environmental Protection.

Thomas C. Smits
L. L. S. 687



FILE NO: W2192 (BK 65-61)
DRAWING NO: _____
SCALE: 1"=1600'
MINIMUM DEGREE OF ACCURACY: 1:2500
PROVEN SOURCE OF ELEVATION: NGS CORS Station

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
OIL AND GAS DIVISION

DATE: JUNE 25 20 19
OPERATORS WELL NO: ERLEWINE 8H
API WELL NO
47 - 103 - 02954
STATE COUNTY PERMIT

WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL
(IF GAS) PRODUCTION: STORAGE DEEP SHALLOW

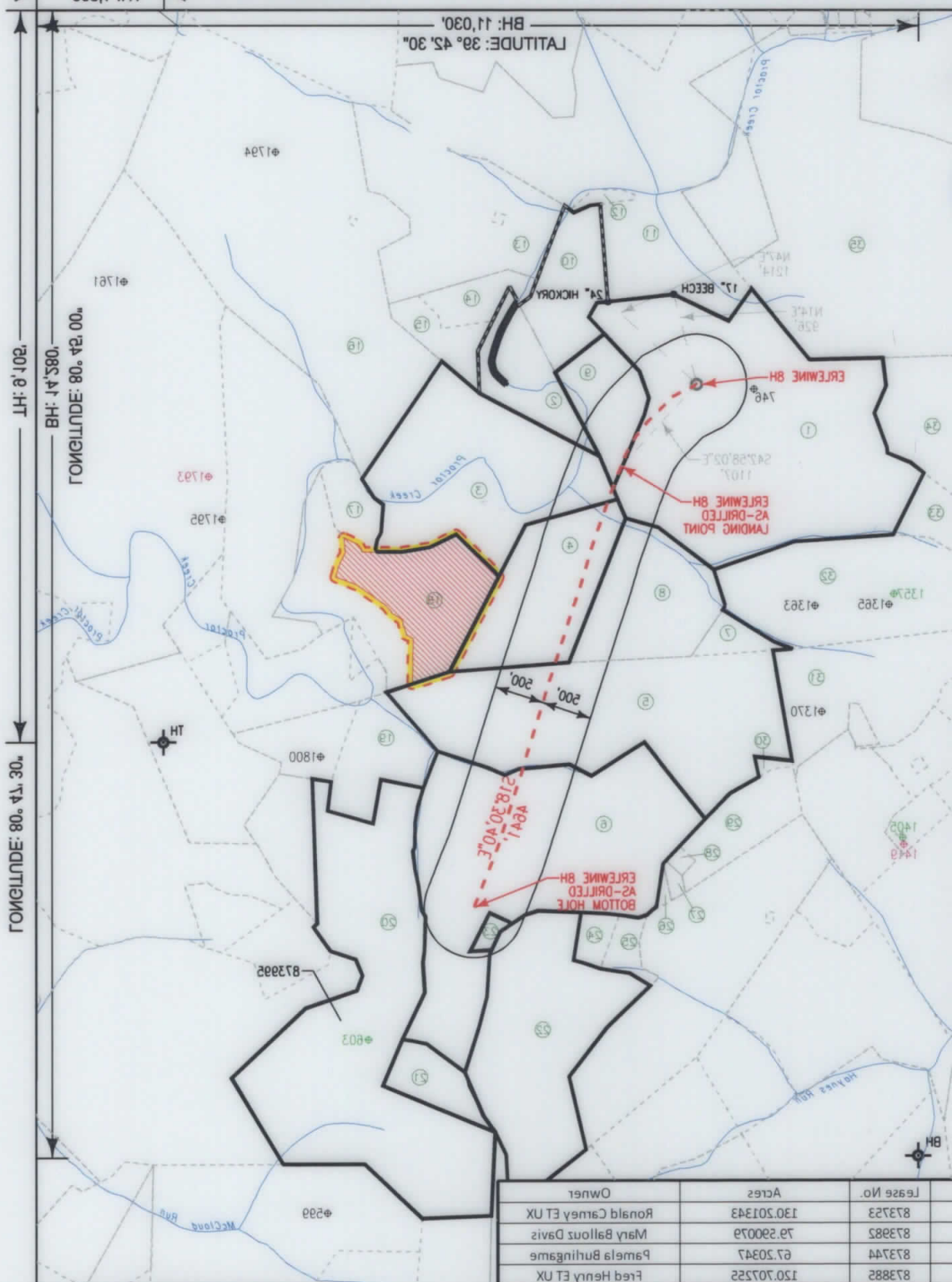
LOCATION ELEVATION: 1,220' WATERSHED: TRIBUTARY OF PROCTOR CREEK QUADRANGLE: NEW MARTINSVILLE 7.5'
DISTRICT: Proctor COUNTY: Wetzel

SURFACE OWNER: Richard Erlewine ACREAGE: 135 ±
ROYALTY OWNER: Ronald Carney, et ux LEASE NO: 873753 ACREAGE: 130.20 ±

PROPOSED WORK: DRILL CONVERT DRILL DEEPER FRACTURE OR STIMULATE PLUG OFF OLD FORMATION
 PERFORATE NEW FORMATION OTHER PHYSICAL CHANGE IN WELL (SPECIFY) _____
 PLUG AND ABANDON CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus ESTIMATED DEPTH: 6,840'

WELL OPERATOR: EQT Production Company DESIGNATED AGENT: Jason Ranson
ADDRESS: 115 Professional Place PO Box 280 ADDRESS: 115 Professional Place PO Box 280
Bridgeport, WV 26330 Bridgeport, WV 26330

TOPHOLE AS-DRILLED



NOTES ON SURVEY

1. COORDINATES SYSTEM IS UTM, NAD 83 DATUM, ZONE 17, U.S. FOOT AND WELL COORDINATES ESTABLISHED USING SURVEY GRADE GPS.
2. SURFACE AND ROYALTY OWNER INFORMATION AND THEIR BOUNDARIES SHOWN HEREON WERE PLOTTED FROM DEEDS AND/OR TAX PARCEL MAPS PROVIDED BY CLIENT AND FIELD LOCATIONS.
3. THIS PLAT DOES NOT REPRESENT A BOUNDARY SURVEY OF THE PARCELS SHOWN HEREON.
4. NO DWELLINGS AND BUILDINGS WITHIN 625 FEET OF PROPOSED CENTER OF PAD.
5. NO WATER WELLS OR DEVELOPED SPRINGS WITHIN 250 FEET OF PROPOSED WELL.
6. NO PERENNIAL STREAMS, LAKES, PONDS, RESERVOIRS OR WETLANDS WITHIN 100 FEET OF THE LIMITS OF DISTURBANCE.
7. NO NATURALLY PRODUCING TIGHT STREAM WITHIN 300 FEET OF LIMITS OF DISTURBANCE.

LEGEND

- ⊕ Active Well Location
- ⊕ Pugged Well Location
- ⊕ Never Drilled
- ⊕ Abandoned Well
- ⊕ Tract Identification
- ⊕ Proposed Gas Well
- Located Corner, as noted
- Surface Tract Lines
- Reference Line
- Lease Boundary
- Creek or Drain
- WV County Route
- WV State Route

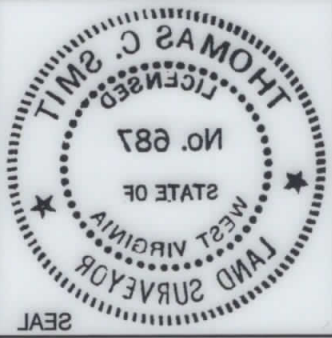
Tract ID.	Lease No.	Acres	Owner
1	873753	130.201343	Ronald Carney ET UX
2 & 4	873882	79.290079	Mary Ballouz Davis
3	873744	67.20347	Pamela Buhingame
5	873882	120.707252	Fred Henry ET UX
6	1018034	113.088312 OR 119.112566	Marilyn S. Hart

() Denotes Location of Well on United States Topographic Maps



I, the undersigned, hereby certify that this plat is correct to the best of my knowledge and belief and shows all the information required by law and the regulations issued and prescribed by the Department of Environmental Protection.

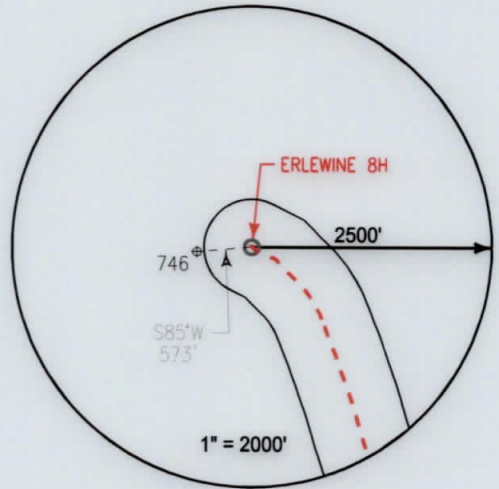
Thomas C. Smith
 L. L. S. 687



<p>FILE NO.: <u>WS192 (BK 65-61)</u></p> <p>DRAWING NO.: _____</p> <p>SCALE: <u>1"=1800'</u></p> <p>MINIMUM DEGREE OF ACCURACY: _____</p> <p>PROVEN SOURCE OF ELEVATION: _____</p> <p>INGS CORS Station</p>	<p>STATE OF WEST VIRGINIA</p> <p>DEPARTMENT OF ENVIRONMENTAL PROTECTION</p> <p>OIL AND GAS DIVISION</p>	<p>DATE: <u>JUNE 25 20 19</u></p> <p>OPERATORS WELL NO: <u>ERLEWINE 8H</u></p> <p>API WELL NO _____</p> <p>STATE COUNTY PERMIT _____</p>
<p>WELL TYPE: <input type="checkbox"/> OIL <input checked="" type="checkbox"/> GAS <input type="checkbox"/> LIQUID INJECTION <input type="checkbox"/> WASTE DISPOSAL</p> <p>(IF GAS) PRODUCTION: <input type="checkbox"/> STORAGE <input type="checkbox"/> DEEP <input checked="" type="checkbox"/> SHALLOW</p> <p>LOCATION ELEVATION: <u>1,250'</u> WATERSHED: <u>TRIBUTARY OF PROCTOR CREEK</u> QUADRANGLE: <u>NEW MARTINSVILLE 7.5.</u></p> <p>DISTRICT: <u>Proctor</u> COUNTY: <u>Wetzel</u></p> <p>SURFACE OWNER: <u>Richard Erhwine</u></p> <p>ROYALTY OWNER: <u>Ronald Carney et ux</u> LEASE NO: <u>873753</u> ACREAGE: <u>130.20 ±</u></p> <p>PROPOSED WORK: <input type="checkbox"/> DRILL <input type="checkbox"/> CONVERT <input type="checkbox"/> DRILL DEEPER <input checked="" type="checkbox"/> FRACTURE OR STIMULATE <input type="checkbox"/> PLUG OFF OLD FORMATION</p> <p><input type="checkbox"/> PERFORATE NEW FORMATION <input type="checkbox"/> OTHER PHYSICAL CHANGE IN WELL (SPECIFY) _____</p> <p><input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> CLEAN OUT AND REPLUG <input type="checkbox"/> TARGET FORMATION: <u>Marcellus</u> ESTIMATED DEPTH: <u>6,840'</u></p>	<p>DESIGNATED AGENT: <u>Jason Ranson</u></p> <p>ADDRESS: <u>115 Professional Place PO Box 280</u></p> <p><u>Bldgport, WV 26330</u></p>	

**Erlewine 8H
Erlewine
EQT Production Company**

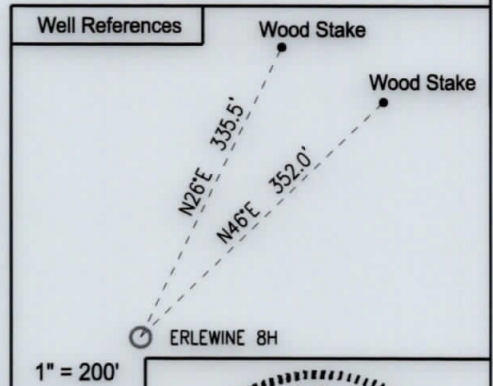
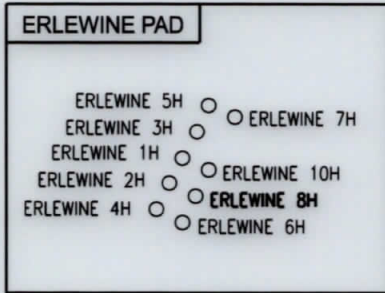
Tract ID.	Tax Map No.	Parcel No.	County	District	Surface Tract Owner	Acres
1	6	46	Wetzel	Proctor	Richard L. Erlewine	134.98
2	7	34	Wetzel	Proctor	Kevin Goff	18.54
3	7	37	Wetzel	Proctor	Rost Energy Company	65.57
4	12	1	Wetzel	Proctor	Kevin Goff	37.58
5	11	12	Wetzel	Proctor	Emma Louise Wilson	92.4
6	12	27.1	Wetzel	Proctor	Sharon Henthorn	109.12
7	11	4	Wetzel	Proctor	Emma Louise Wilson	4.89
8	11	5	Wetzel	Proctor	Emma L. & John J. Moore	32.97
9	6	47	Wetzel	Proctor	Victor Richard Reed ET AL	16.82
10	6	40	Wetzel	Proctor	Kevin S. Goff	20.63
11	6	30	Wetzel	Proctor	Albert Ray Anderson	118.05
12	6	39	Wetzel	Proctor	Ethyl Anderson EST	1.61
13	7	23	Wetzel	Proctor	Clegg Family Irrevocable Trust	52.67
14	7	35	Wetzel	Proctor	Clegg Family Irrevocable Trust	8.5
15	7	36	Wetzel	Proctor	Clegg Family Irrevocable Trust	8.95
16	7	24	Wetzel	Proctor	Minervar & Evans Lane C	157.26
17	7	38	Wetzel	Proctor	Rost Energy Company	8.3
18	12	2	Wetzel	Proctor	Emma L. & John J. Moore	27.9
19	12	14	Wetzel	Proctor	Rost Energy Company	18.65
20	12	28	Wetzel	Proctor	Freeman J. & David J. Miller	117.96
21	12	44.2	Wetzel	Proctor	Roger J. Powell	10.5
22	12	44	Wetzel	Proctor	Charles G. Shepard	63.95
23	12	27	Wetzel	Proctor	Sharon Henthorne	1.67
24	11	25.2	Wetzel	Proctor	AM Smith ER & SJ Headley	3.93
25	11	25.3	Wetzel	Proctor	Joyce A. Meeden	4.6
26	11	N/A	Wetzel	Proctor	N/A	0.76
27	11	28	Wetzel	Proctor	John A. Helmick	1.07
28	11	20.1	Wetzel	Proctor	Debra Lynn Oates	0.97
29	11	20	Wetzel	Proctor	John A. Helmick	16.1
30	11	9	Wetzel	Proctor	Emily D. Wilson	0.95
31	11	11	Wetzel	Proctor	Christy Leek	38.3
32	11	3	Wetzel	Proctor	Wilson Mary & Christy Leek EST	53.08
33	6	45	Wetzel	Proctor	Christy Leek	28.78
34	6	45.1	Wetzel	Proctor	Donald F. & Martha J. Arrick	53.6
35	6	36	Wetzel	Proctor	Richard L. Erlewine	131.8



Notes:
ERLEWINE 8H As-Drilled coordinates are
 NAD 27 N: 433,648.000 E: 1,634,887.000
 NAD 27 Lat: 39.683375 Long: -80.797332
 NAD 83 UTM N: 4,392,644.145 E: 517,394.965
ERLEWINE 8H As-Drilled Landing Point coordinates are
 NAD 27 N: 432,838.223 E: 1,635,641.270
 NAD 27 Lat: 39.681182 Long: -80.794611
 NAD 83 UTM N: 4,392,401.283 E: 517,628.872
ERLEWINE 8H As-Drilled Bottom Hole coordinates are
 NAD 27 N: 428,439.143 E: 1,637,113.500
 NAD 27 Lat: 39.669163 Long: -80.789156
 NAD 83 UTM N: 4,391,068.572 E: 518,099.733
 West Virginia Coordinates system of 1927 (North Zone)
 based upon Differential GPS Measurements
 Plat orientation, Corner and well ties are based upon
 the grid north meridian
 Well location references are based upon the grid north
 meridian.
 UTM coordinates are NAD83, Zone 17, Meters.

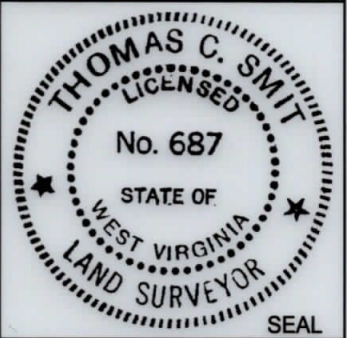
LEGEND

- ⊕ Active Well Location
- Proposed Gas Well
- Located Corner, as noted
- Surface Tract Lines
- Reference Line
- ▬ Lease Boundary
- Creek or Drain
- ⊙ WV County Route
- ⊞ WV State Route



I, the undersigned, hereby certify that this plat is correct to the best of my knowledge and belief and shows all the information required by law and the regulations issued and prescribed by the Department of Environmental Protection.

L. L. S.
 L. L. S. 687



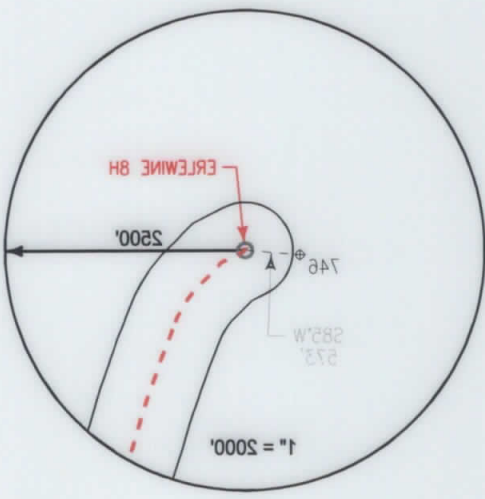
FILE NO: W2192 (BK 65-61)
 DRAWING NO: _____
 SCALE: 1" = 1000'
 MINIMUM DEGREE OF ACCURACY:
 1:2500
 PROVEN SOURCE OF ELEVATION:
 NGS CORS Station

STATE OF WEST VIRGINIA
 DEPARTMENT OF ENVIRONMENTAL PROTECTION
 OIL AND GAS DIVISION

DATE: JUNE 25 20 19
 OPERATORS WELL NO: ERLEWINE 8H
 API WELL NO
 47 - 103 - 02954
 STATE COUNTY PERMIT

WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL
 (IF GAS) PRODUCTION: STORAGE DEEP SHALLOW
 LOCATION ELEVATION: _____ WATERSHED: TRIBUTARY OF PROCTOR CREEK QUADRANGLE: NEW MARTINSVILLE 7.5'
 DISTRICT: Proctor COUNTY: Wetzel
 SURFACE OWNER: Richard Erlewine ACREAGE: 135 ±
 ROYALTY OWNER: Ronald Carney, et ux LEASE NO: 873753 ACREAGE: 130.20 ±
 PROPOSED WORK: DRILL CONVERT DRILL DEEPER FRACTURE OR STIMULATE PLUG OFF OLD FORMATION
 PERFORATE NEW FORMATION OTHER PHYSICAL CHANGE IN WELL (SPECIFY) _____
 PLUG AND ABANDON CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus ESTIMATED DEPTH: 6,840'
 WELL OPERATOR: EQT Production Company DESIGNATED AGENT: Jason Ranson
 ADDRESS: 115 Professional Place PO Box 280 ADDRESS: 115 Professional Place PO Box 280
 Bridgeport, WV 26330 Bridgeport, WV 26330

Tax Map No.	Parcel No.	County	District	Surface Tract Owner	Acres
134.98	46	Wetzel	Proctor	Richard L. Erlwine	1.34
18.24	34	Wetzel	Proctor	Kevin Goff	1.82
62.27	37	Wetzel	Proctor	Rost Energy Company	62.27
37.28	1	Wetzel	Proctor	Kevin Goff	37.28
92.4	12	Wetzel	Proctor	Emma Louise Wilson	92.4
109.12	27.1	Wetzel	Proctor	Sharon Henthorn	109.12
4.89	4	Wetzel	Proctor	Emma Louise Wilson	4.89
32.27	2	Wetzel	Proctor	Emma L. & John I. Moore	32.27
16.82	47	Wetzel	Proctor	Victor Richard Reed ET AL	16.82
20.63	40	Wetzel	Proctor	Kevin S. Goff	20.63
118.02	30	Wetzel	Proctor	Albert Ray Anderson	118.02
1.61	39	Wetzel	Proctor	Ethyl Anderson EST	1.61
22.67	23	Wetzel	Proctor	Clegg Family Irrevocable Trust	22.67
8.2	32	Wetzel	Proctor	Clegg Family Irrevocable Trust	8.2
8.92	36	Wetzel	Proctor	Clegg Family Irrevocable Trust	8.92
127.26	24	Wetzel	Proctor	Minerva & Evans Lane C	127.26
8.3	38	Wetzel	Proctor	Rost Energy Company	8.3
27.9	2	Wetzel	Proctor	Emma L. & John I. Moore	27.9
18.62	14	Wetzel	Proctor	Rost Energy Company	18.62
117.96	28	Wetzel	Proctor	Fremman J. & David J. Miller	117.96
10.2	44.2	Wetzel	Proctor	Roger J. Powell	10.2
63.92	44	Wetzel	Proctor	Charles G. Sheppard	63.92
1.67	27	Wetzel	Proctor	Sharon Henthorn	1.67
3.93	22.2	Wetzel	Proctor	AM Smith ER & SI Headley	3.93
4.6	22.3	Wetzel	Proctor	Joyce A. Meaden	4.6
0.76	N/A	Wetzel	Proctor	N/A	0.76
1.07	28	Wetzel	Proctor	John A. Helmick	1.07
0.97	20.1	Wetzel	Proctor	Debra Lynn Oates	0.97
16.1	20	Wetzel	Proctor	John A. Helmick	16.1
0.92	9	Wetzel	Proctor	Emily D. Wilson	0.92
38.3	11	Wetzel	Proctor	Christy Leek	38.3
23.08	3	Wetzel	Proctor	Wilson Mary & Christy Leek EST	23.08
28.78	42	Wetzel	Proctor	Christy Leek	28.78
23.6	42.1	Wetzel	Proctor	Donald F. & Martha J. Arick	23.6
131.8	36	Wetzel	Proctor	Richard L. Erlwine	131.8

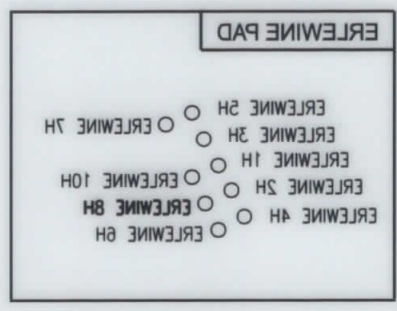
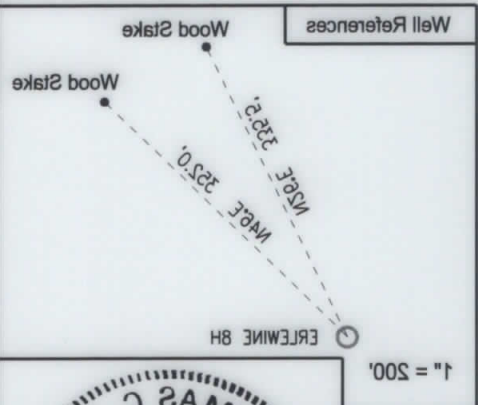


Notes:
ERLWINE 8H AS-DRIILLED COORDINATES ARE
 NAD 27 N: 432,848.000 E: 1,834,887.000
 NAD 27 Lat: 39.68375 Long: -80.70732
 NAD 83 UTM N: 4,392,644.142 E: 517,394.982

ERLWINE 8H AS-DRIILLED LANDING POINT COORDINATES ARE
 NAD 27 N: 432,838.223 E: 1,832,641.270
 NAD 27 Lat: 39.68182 Long: -80.70461
 NAD 83 UTM N: 4,392,401.283 E: 517,628.872

ERLWINE 8H AS-DRIILLED BOTTOM HOLE COORDINATES ARE
 NAD 27 N: 428,439.143 E: 1,837,113.200
 NAD 27 Lat: 39.669183 Long: -80.789156
 NAD 83 UTM N: 4,391,088.272 E: 518,089.733

West Virginia Coordinates system of 1927 (North Zone) based upon Differential GPS Measurements
 Plat orientation, Corner and well ties are based upon the grid north meridian
 Well location references are based upon the grid north meridian.
 UTM coordinates are NAD83, Zone 17, Meters.



LEGEND

- Active Well Location (circle with crosshair)
- Proposed Gas Well (circle with dot)
- Located Corner, as noted (black dot)
- Surface Tract Lines (dashed line)
- Reference Line (solid line)
- Lease Boundary (thick solid line)
- Creek or Drain (blue line)
- WV County Route (line with 'WV' label)
- WV State Route (line with 'WV' label)



I, the undersigned, hereby certify that this plat is correct to the best of my knowledge and belief and shows all the information required by law and the regulations issued and prescribed by the Department of Environmental Protection.

Thomas C. Smith
 L. L. S. 687



DATE: JUNE 25 20 19

OPERATORS WELL NO.: ERLWINE 8H

API WELL NO

STATE COUNTY PERMIT

STATE OF WEST VIRGINIA
 DEPARTMENT OF ENVIRONMENTAL PROTECTION
OIL AND GAS DIVISION

FILE NO: W2192 (BK 62-61)

DRAWING NO: _____

SCALE: 1" = 1000'

MINIMUM DEGREE OF ACCURACY: _____

PROVEN SOURCE OF ELEVATION: _____

INGS CORS Station

WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL

(IF GAS) PRODUCTION: STORAGE DEEP SHALLOW

LOCATION ELEVATION: _____ WATERSHED: _____ QUADRANGLE: NEW MARTINSVILLE 7.2

DISTRICT: Proctor COUNTY: Wetzel

SURFACE OWNER: Richard Erlwine

ROYALTY OWNER: Ronald Carmey, et ux

LEASE NO: 873723 ACREAGE: 130.20 ±

ACREAGE: 135 ±

PROPOSED WORK: DRILL CONVERT DRILL DEEPER FRACTURE OR STIMULATE PLUG OFF OLD FORMATION

PERFORATE NEW FORMATION OTHER PHYSICAL CHANGE IN WELL (SPECIFY) _____

PLUG AND ABANDON CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus ESTIMATED DEPTH: 6,840'

DESIGNATED AGENT: Jason Ranson

WELL OPERATOR: EOT Production Company

ADDRESS: 115 Professional Place PO Box 280 Bridgeport, WV 26330