

APPROVED

*Amended
Final*

NAME: *Jul C. P. ...*

DATE: *2/10/2016*

Well Operator's Report of Well Work



Where energy meets innovation.

Well Number: 514392

API: 47 - 017 - 06445

Submission: Initial Amended *1st* *PK3*

Notes: Add'l Injection test - 5.01
Reperf - 6.1

Correction to Production Cement Top
(MD)

RECEIVED
Office of Oil and Gas

DEC 21 2015

WV Department of
Environmental Protection

AX WS 0303/25/2016

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

API 47 - 017 - 06445 County DODDRIDGE District WEST UNION
Quad WEST UNION 7.5' Pad Name WEU49 Field/Pool Name _____
Farm name MARY FARR SECRIST Well Number 514392
Operator (as registered with the OOG) EQT Production Company
Address 625 Liberty Ave. EQT Plaza, Suite 1700 City Pittsburgh State PA Zip 15222

As Drilled location NAD 83/UTM Attach an as-drilled plat, profile view, and deviation survey
Top hole Northing 4,345,084 Easting 518,426
Landing Point of Curve Northing 4,345,216 Easting 518,967
Bottom Hole Northing 4,344,295 Easting 519,415

Elevation (ft) 1130 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)
SBM 13.1 ppg – powdered hydrocarbon resin, calcium carbonate, ground almond hulls, barium sulfate, calcium chloride, lecithin liquid, organophilic clay,
partially hydrolyzed polyacrylamide/polyacrylate, potassium chloride, sodium carbonate, ground walnut shells, alcohol and modified fatty acid, ferrochrome lignosulfonate, calcium carbonate, fibrous cellulose

Date permit issued 03/13/2014 Date drilling commenced 06/24/2014 Date drilling ceased 2/8/2015
Date completion activities began 6/29/2015 Date completion activities ceased 7/5/2015
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

Freshwater depth(s) ft 487 Open mine(s) (Y/N) depths N
Salt water depth(s) ft 1542 Void(s) encountered (Y/N) depths N
Coal depth(s) ft 340, 483 Cavern(s) encountered (Y/N) depths N
Is coal being mined in area (Y/N) N

Reviewed by:

03/25/2016

API 47-017 - 06445 Farm name MARY FARR SECRIST Well number 514392

| 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 | 24" | 20" | 40' | NEW | A-500 40LB/FT | NONE | Y |
| Surface | 17.5" | 13.375" | 1,052' | NEW | J-55 54.5LB/FT | 299' | Y |
| Coal | | | | | | | |
| Intermediate 1 | 12.375" | 9.625" | 5,246' | NEW | P-110 40LB/FT | 1423',2313',2979',4206' | Y |
| Intermediate 2 | | | | | | | |
| Intermediate 3 | | | | | | | |
| Production | 8.5" | 5.5" | 12,337' | NEW | P-110 20LB/FT | None | N |
| 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 | CLASS A | 38 | 15.6 | 1.18 | 44.84 | 0 | 8 |
| Surface | CLASS A | 890 | 15.6 | 1.19 | 1059.1 | 0 | 8 |
| Coal | | | | | | | |
| Intermediate 1 | CLASS A / CLASS A | 370 / 340 | 14.2 / 15.6 | 1.28 / 1.18 | 874.8 | 0 | 8 |
| Intermediate 2 | | | | | | | |
| Intermediate 3 | | | | | | | |
| Production | Class A/Class H | 500/560 | 14.2/15.2 | 1.26/1.97 | 1730 | 4,861' | 8 |
| Tubing | | | | | | | |

Drillers TD (ft) 12,337' Loggers TD (ft) N/A

Deepest formation penetrated Marcellus Plug back to (ft) N/A

Plug back procedure N/A

Kick off depth (ft) 5652

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 _____

CONDUCTOR- NONE

SURFACE- JOINTS: 1, 13, 23

INTERMEDIATE- JOINTS: 1, 12, 24, 36, 48, 61, 73, 84, 96, 108, 120

PRODUCTION- Composite Body Matrix Centralizers Used Joints: 5-162 (5436'-12336')

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 _____

API 47- 017 - 06445 Farm name MARY FARR SECRIST Well number 514392

| <u>PRODUCING FORMATION(S)</u> | <u>DEPTHS</u> | | |
|-------------------------------|---------------|-------|------------------|
| <u>Marcellus</u> | <u>6,690'</u> | TVD | <u>8,037'</u> MD |
| _____ | _____ | _____ | _____ |
| _____ | _____ | _____ | _____ |
| _____ | _____ | _____ | _____ |

Please insert additional pages as applicable.

GAS TEST Build up Drawdown Open Flow OIL TEST Flow Pump

SHUT-IN PRESSURE Surface 2,135 psi Bottom Hole N/A psi DURATION OF TEST 55.5 hrs

OPEN FLOW Gas 10,586 mcfpd Oil N/A bpd NGL 53.6 bpd Water 705.6 bpd GAS MEASURED BY Estimated Orifice Pilot

| LITHOLOGY/ FORMATION | TOP DEPTH IN FT NAME TVD | BOTTOM DEPTH IN FT TVD | TOP DEPTH IN FT MD | BOTTOM DEPTH IN FT MD | DESCRIBE ROCK TYPE AND RECORD QUANTITY AND TYPE OF FLUID (FRESHWATER, BRINE, OIL, GAS, H ₂ S, ETC) |
|-------------------------|--------------------------------|------------------------------|--------------------------|-----------------------------|--|
| | <u>0</u> | | <u>0</u> | | |
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Please insert additional pages as applicable.

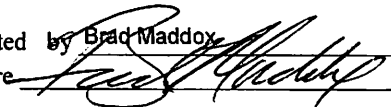
Drilling Contractor ALPHA HUNTER DRILLING (RIG 4)
Address P.O. BOX 430 City RENO State OH Zip 45773

Logging Company HOSSCO SERVICES, LLC
Address 614 TROTTERS LANE City CHARLESTON State WV Zip 25312

Cementing Company NABORS CEMENTING SERVICES
Address 2504 SMITH CREEK ROAD City WAYNESBURG State PA Zip 15370

Stimulating Company FTSI
Address 301 E 18th Street City Cisco State TX Zip 76437

Please insert additional pages as applicable.

Completed by Brad Maddox Telephone 412-395-7053
Signature  Title Director of Drilling Date 12/9/2015

API 47- 017 - 6445 Farm name MARY FARR SECRIST Well number 514392

Drilling Contractor Orion 17
Address 674 Flato Road City Corpus Christi State TX Zip 78405

Logging Company ProDirectional
Address 103 Suds Run Road City Mount Clare State WV Zip 26408

Logging Company GYRODATA
Address 601 MAYER ST City BRIDGEVILLE State PA Zip 15017

Cementing Company Nabors Cementing Services
Address 2504 Smith Creek Road City Waynesburg State PA Zip 15370

Farm Name: Mar Farr Secrist

API 47-170-6445

Well Number: 514392

Formations

| Formation Name | Final Top MD (ftGL) (ft) | Final Top TVD (ft) | Final Btm MD (ftGL) (ft) | Final Btm TVD (ft) |
|------------------|--------------------------|--------------------|--------------------------|--------------------|
| FRESH WATER ZONE | 1 | | 497 | |
| SAND/SHALE | 1 | | 350 | |
| COAL | 350 | | 353 | |
| SAND/SHALE | 353 | | 493 | |
| PITTSBURGH COAL | 493 | | 495 | |
| SAND/SHALE | 495 | | 1,428.00 | |
| MAXTON | 1,428.00 | | 1,861.00 | |
| BIG LIME | 1,861.00 | | 2,156.00 | |
| WEIR | 2,156.00 | | 2,358.00 | |
| BEREA | 2,358.00 | | 2,363.00 | |
| GANTZ | 2,363.00 | | 2,484.00 | |
| 50F | 2,484.00 | | 2,567.00 | |
| 30F | 2,567.00 | | 2,610.00 | |
| GORDON | 2,610.00 | | 2,721.00 | |
| 4TH | 2,721.00 | | 2,905.00 | |
| BAYARD | 2,905.00 | | 3,229.00 | |
| WARREN | 3,229.00 | | 3,293.00 | |
| SPEECHLEY | 3,293.00 | | 3,930.00 | |
| BALLTOWN A | 3,930.00 | | 4,227.00 | |
| BRADFORD | 4,227.00 | | 4,426.00 | |
| RILEY | 4,426.00 | | 4,867.00 | |
| BENSON | 4,867.00 | | 5,121.00 | |
| ALEXANDER | 5,121.00 | | 6,334.00 | 6,048.60 |
| SONYEA | 6,334.00 | 6,048.60 | 7,492.00 | 6,490.40 |
| MIDDLESEX | 7,492.00 | 6,490.40 | 7,607.00 | 6,546.30 |
| GENESSEE | 7,607.00 | 6,546.30 | 7,812.00 | 6,629.30 |
| GENESE0 | 7,812.00 | 6,629.30 | 7,906.00 | 6,657.90 |
| TULLY | 7,906.00 | 6,657.90 | 7,971.00 | 6,675.20 |
| HAMILTON | 7,971.00 | 6,675.20 | 8,037.00 | 6,690.10 |
| MARCELLUS | 8,037.00 | 6,690.10 | | |

03/25/2016

514392 - 47-017-6445-0000- Perforations

| Stage Number | Perforation Date | Top Perf Depth (ftKB) | Bottom Perf Depth (ftKB) | Number of Shots | Formation |
|---------------------|-------------------------|------------------------------|---------------------------------|------------------------|------------------|
| 1 | 4/29/2015 | 12,202.00 | 12,322.00 | 28 | MARCELLUS |
| 2 | 6/29/2015 | 12,022.00 | 12,144.00 | 42 | MARCELLUS |
| 3 | 6/29/2015 | 11,842.00 | 11,962.00 | 42 | MARCELLUS |
| 4 | 6/30/2015 | 11,662.00 | 11,784.00 | 42 | MARCELLUS |
| 5:01 | 6/30/2015 | 11,482.00 | 11,604.00 | 42 | MARCELLUS |
| 5 | 6/30/2015 | 11,302.00 | 11,424.00 | 42 | MARCELLUS |
| 6 | 7/1/2015 | 11,262.00 | 11,424.00 | 42 | MARCELLUS |
| 7 | 7/1/2015 | 11,082.00 | 11,204.00 | 42 | MARCELLUS |
| 8 | 7/1/2015 | 10,900.00 | 11,024.00 | 42 | MARCELLUS |
| 9 | 7/2/2015 | 10,722.00 | 10,844.00 | 42 | MARCELLUS |
| 10 | 7/2/2015 | 10,542.00 | 10,664.00 | 42 | MARCELLUS |
| 11 | 7/2/2015 | 10,362.00 | 10,484.00 | 42 | MARCELLUS |
| 12 | 7/2/2015 | 10,182.00 | 10,304.00 | 42 | MARCELLUS |
| 13 | 7/3/2015 | 10,002.00 | 10,124.00 | 42 | MARCELLUS |
| 14 | 7/3/2015 | 9,822.00 | 9,943.00 | 42 | MARCELLUS |
| 15 | 7/3/2015 | 9,642.00 | 9,764.00 | 42 | MARCELLUS |
| 16 | 7/3/2015 | 9,462.00 | 9,584.00 | 42 | MARCELLUS |
| 17 | 7/3/2015 | 9,280.00 | 9,404.00 | 42 | MARCELLUS |
| 18 | 7/3/2015 | 9,102.00 | 9,224.00 | 42 | MARCELLUS |
| 19 | 7/4/2015 | 8,922.00 | 9,044.00 | 42 | MARCELLUS |
| 20 | 7/4/2015 | 8,742.00 | 8,864.00 | 42 | MARCELLUS |
| 21 | 7/4/2015 | 8,562.00 | 8,684.00 | 42 | MARCELLUS |
| 22 | 7/4/2015 | 8,382.00 | 8,504.00 | 42 | MARCELLUS |
| 23 | 7/4/2015 | 8,202.00 | 8,318.00 | 42 | MARCELLUS |
| 24 | 7/4/2015 | 8,022.00 | 8,144.00 | 42 | MARCELLUS |
| | | | | | |

Hydraulic Fracturing Fluid Product Component Information Disclosure

| | |
|--------------------------------|--------------------|
| Job Start Date: | 6/29/2015 |
| Job End Date: | 7/5/2015 |
| State: | West Virginia |
| County: | Doddridge |
| API Number: | 47-017-06445-00-00 |
| Operator Name: | EQT Production |
| Well Name and Number: | 514392 |
| Longitude: | -80.78661600 |
| Latitude: | 39.25480700 |
| Datum: | NAD83 |
| Federal/Tribal Well: | NO |
| True Vertical Depth: | 6,690 |
| Total Base Water Volume (gal): | 8,022,924 |
| 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 | FTS International | Carrier/Base Fluid | Water | 7732-18-5 | 100.00000 | 89.98228 | None |
| Sand (Proppant) | FTS International | Proppant | Crystalline Silica | 14808-60-7 | 100.00000 | 9.60557 | None |
| MC MX 437-5 | Multi-Chem | Calcium nitrate solution | Calcium nitrate | 10124-37-5 | 60.00000 | 0.05697 | None |
| FRW-900 | FTS International | Friction reducer | Hydrotreated light distillate | 64742-47-8 | 30.00000 | 0.02626 | None |
| | | | Alkyl Alcohol | Proprietary | 10.00000 | 0.00875 | None |
| | | | Oxyalkylated alcohol A | Proprietary | 5.00000 | 0.00438 | None |
| Hydrochloric Acid (15%) | FTS International | Acidizing | Hydrochloric Acid | 7647-01-0 | 15.00000 | 0.02970 | None |
| HVG-1 | FTS International | Gelling agent | Petroleum distillate | 64742-47-8 | 55.00000 | 0.00246 | None |
| | | | Guar gum | 9000-30-0 | 50.00000 | 0.00224 | None |
| | | | Clay | 14808-60-7 | 2.00000 | 0.00009 | None |
| | | | Surfactant | 68439-51-0 | 2.00000 | 0.00009 | None |
| CS-500-SI | FTS International | Scale inhibitor | | | | | |

| | | | | | | | |
|---------|-------------------|--------------------------|------------------------------|-------------|----------|---------|------|
| | | | Ethylene glycol | 107-21-1 | 10.00000 | 0.00254 | None |
| FE-100L | FTS International | Iron control | | | | | |
| | | | Citric acid | 77-92-9 | 55.00000 | 0.00056 | None |
| CI-150 | FTS International | Acid Corrosion Inhibitor | | | | | |
| | | | Ethylene glycol | 107-21-1 | 30.00000 | 0.00009 | None |
| | | | Isopropanol | 67-63-0 | 30.00000 | 0.00009 | None |
| | | | Organic amine resin salt | Proprietary | 30.00000 | 0.00009 | None |
| | | | Dimethylformamide | 68-12-2 | 10.00000 | 0.00003 | None |
| | | | Quaternary ammonium compound | Proprietary | 10.00000 | 0.00003 | None |
| | | | Aromatic aldehyde | Proprietary | 10.00000 | 0.00003 | None |
| APB-1 | FTS International | Breaker | | | | | |
| | | | Ammonium persulfate | 7727-54-0 | 95.00000 | 0.00009 | None |
| NE-100 | FTS International | Non-emulsifier | | | | | |
| | | | 2-Propanol | 67-63-0 | 10.00000 | 0.00003 | None |
| | | | 2-Butoxyethanol | 111-76-2 | 10.00000 | 0.00003 | None |
| | | | Dodecylbenzenesulfonic acid | 27176-87-0 | 5.00000 | 0.00001 | None |

Ingredients shown above are subject to 29 CFR 1910.1200(i) and appear on Material Safety Data Sheets (MSDS). Ingredients shown below are Non-MSDS.

* Total Water Volume sources may include fresh water, produced water, and/or recycled water

** Information is based on the maximum potential for concentration and thus the total may be over 100%

Note: For Field Development Products (products that begin with FDP), MSDS level only information has been provided

Ingredient information for chemicals subject to 29 CFR 1910.1200(i) and Appendix D are obtained from suppliers Material Safety Data Sheets (MSDS)

Welcome Michelle N., Operator - OpNo. E1210363 [Log Out]



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i Disclosure has been submitted.

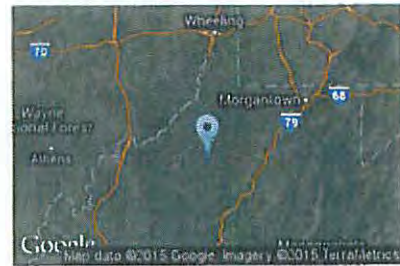
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Hydraulic Fracturing Data

[Edit](#)

| | | | |
|----------------------------------|----------------------------------|----------------------------------|--|
| Job Start Date 6/29/2015 | Job End Date 7/5/2015 | API Number 47-017-06445-00-00 | State & County West Virginia --- Doddridge |
| Well Name 514392 | | | |
| Longitude -80.786616 | Latitude 39.254807 | Datum NAD83 | Federal/Tribal Well? |
| True Vertical Depth (ft) 6690 | Total Water Vol (gal) 8022924 | Total Non Water Vol 0 | Total Mass (lbs) 74404985 |



MSDS Chemical Ingredients

[New Additive](#) [Add Additive](#)

| | Trade Name | Supplier | Purpose | Ingredients | CAS # | % High Additive | % HF Job | Comments | Ingredient Mass |
|----------------------|-------------------------|-------------------|--------------------------|-------------------------------|-------------|-----------------|----------------|----------|-----------------|
| Edit | Water | FTS International | Carrier/Base Fluid | Water | 7732-18-5 | 100% | 89.9822783609% | None | 66951300.78 |
| Edit | Sand (Proppant) | FTS International | Proppant | Crystalline Silica | 14808-60-7 | 100% | 9.6055741336% | None | 7147026 |
| Edit | MC MX 437-5 | Multi-Chem | Calcium nitrate solution | Calcium nitrate | 10124-37-5 | 60% | .0569725134% | None | 42390.39 |
| Edit | FRW-900 | FTS International | Friction reducer | Hydrotreated light distillate | 64742-47-8 | 30% | .0262630847% | None | 19541.044 |
| | | | | Alkyl Alcohol | Proprietary | 10% | .0087543616% | None | 6513.681 |
| | | | | Oxyalkylated alcohol A | Proprietary | 5% | .0043771808% | None | 3256.841 |
| Edit | Hydrochloric Acid (15%) | FTS International | Acidizing | Hydrochloric Acid | 7647-01-0 | 15% | .0297018355% | None | 22099.646 |
| Edit | HVG-1 | FTS International | Gelling agent | Petroleum distillate | 64742-47-8 | 55% | .0024601941% | None | 1830.507 |
| | | | | Guar gum | 9000-30-0 | 50% | .0022365401% | None | 1664.097 |
| | | | | Clay | 14808-60-7 | 2% | .0000894616% | None | 66.564 |
| | | | | Surfactant | 68439-51-0 | 2% | .0000894616% | None | 66.564 |
| Edit | CS-500-SI | | | | | | | | |

| Trade Name | Supplier | Purpose | Ingredients | CAS # | % High Additive | % HF Job | Comments | Ingredient Mass |
|---|-------------------|--------------------------|------------------------------|-------------|-----------------|--------------|----------|-----------------|
| <input type="button" value="Edit"/> FE-100L | FTS International | Scale inhibitor | Ethylene glycol | 107-21-1 | 10% | .0025426992% | None | 1891.895 |
| <input type="button" value="Edit"/> CI-150 | FTS International | Iron control | Citric acid | 77-92-9 | 55% | .0005786769% | None | 430.564 |
| <input type="button" value="Edit"/> APB-1 | FTS International | Acid Corrosion Inhibitor | Ethylene glycol | 107-21-1 | 30% | .0000932693% | None | 69.397 |
| | | | Isopropanol | 67-63-0 | 30% | .0000932693% | None | 69.397 |
| | | | Organic amine resin salt | Proprietary | 30% | .0000932693% | None | 69.397 |
| | | | Dimethylformamide | 68-12-2 | 10% | .0000310898% | None | 23.132 |
| | | | Quaternary ammonium compound | Proprietary | 10% | .0000310898% | None | 23.132 |
| | | | Aromatic aldehyde | Proprietary | 10% | .0000310898% | None | 23.132 |
| <input type="button" value="Edit"/> NE-100 | FTS International | Breaker | Ammonium persulfate | 7727-54-0 | 95% | .0000919293% | None | 68.4 |
| | FTS International | Non-emulsifier | 2-Propanol | 67-63-0 | 10% | .0000277587% | None | 20.654 |
| | | | 2-Butoxyethanol | 111-76-2 | 10% | .0000277587% | None | 20.654 |
| | | | Dodecylbenzenesulfonic acid | 27176-87-0 | 5% | .0000138794% | None | 10.327 |

Non-MSDS Chemical Ingredients

| Trade Name | Supplier | Purpose | Ingredients | CAS # | % High Additive | % HF Job | Comments | Ingredient Mass |
|------------|----------|---------|-------------|-------|-----------------|----------|----------|-----------------|
|------------|----------|---------|-------------|-------|-----------------|----------|----------|-----------------|

Use Terms | © Copyright GWPC & IOGCC, 2010

NOTES ON SURVEY

1. NO WATER WELLS WERE FOUND WITHIN 250' OF PROPOSED GAS WELL. NO AGRICULTURAL BUILDINGS ≥ 2500 SQ. FT. OR DWELLINGS WERE FOUND WITHIN 625' OF THE CENTER OF PROPOSED WELL PAD.
2. AS DRILLED INFORMATION PROVIDED BY EQT.

**EQT PRODUCTION COMPANY
LEWIS MAXWELL LEASE
2,654 ACRES±
WELL NO. WV 514392
(WEU49 H3)**

(S.P.C. NORTH ZONE) (UTM(M) ZONE 17 NORTH)
 NAD27 S.P.C.(FT) N. 277,524.9 E. 1,835,067.1
 NAD27 GEO. LAT-(N) 39.254807 LONG-(W) 80.786618
 NAD83 UTM (M) N. 4,345,084.4 E. 518,425.7

LANDING POINT

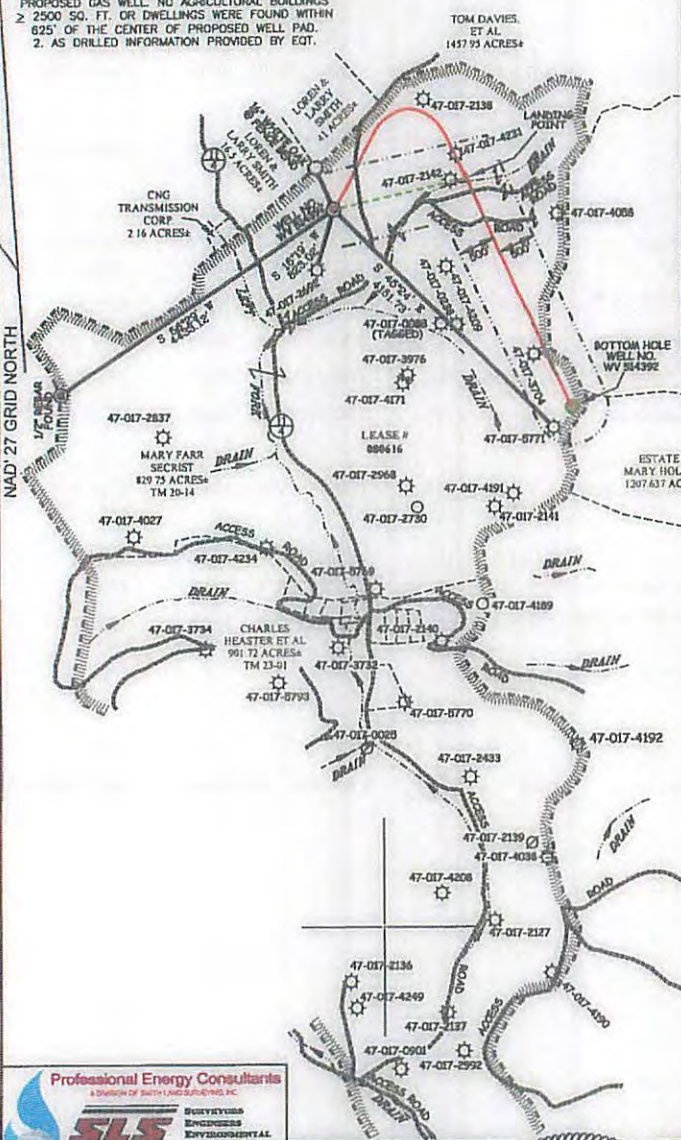
NAD27 S.P.C.(FT) N. 277,925.9 E. 1,837,448.8
 NAD27 GEO. LAT-(N) 39.256978 LONG-(W) 80.780345
 NAD83 UTM (M) N. 4,345,215.7 E. 518,906.5

BOTTOM HOLE

NAD27 S.P.C.(FT) N. 274,880.7 E. 1,838,868.8
 NAD27 GEO. LAT-(N) 39.247673 LONG-(W) 80.775178
 NAD83 UTM (M) N. 4,344,295.2 E. 519,414.6

NAD 27 GRID NORTH

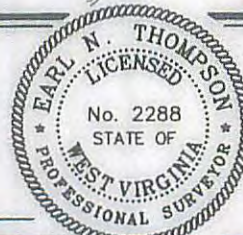
LONGITUDE 80°45'00"



LEGEND

| | |
|-----------------|-------|
| LEASE LINE | --- |
| SURFACE LINE | --- |
| PROPOSED PATH | --- |
| AS DRILLED PATH | --- |
| OFFSET LINE | --- |
| TIE LINE | --- |
| CREEK | --- |
| ROAD | --- |
| TREE LINE | --- |
| COUNTY ROUTE | --- |
| PROPOSED WELL | ☆ |
| EXISTING WELL | ☆ |
| TAX MAP--PARCEL | 00-00 |

**AS DRILLED COORDINATES
FOR WELL NO. WV 514392**
 (S P C NORTH ZONE) (UTM(M) ZONE 17 NORTH)
 NAD27 S.P.C.(FT) N. 277,524.9 E. 1,835,067.1
 NAD27 GEO. LAT-(N) 39.254807 LONG-(W) 80.786618
 NAD83 UTM (M) N. 4,345,084.4 E. 518,425.7
BOTTOM HOLE
 NAD27 S.P.C.(FT) N. 274,880.7 E. 1,838,868.8
 NAD27 GEO. LAT-(N) 39.247673 LONG-(W) 80.775178
 NAD83 UTM (M) N. 4,344,291.2 E. 519,416.9



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 DIVISION OF ENVIRONMENTAL PROTECTION.

P.S. 2288 *Earl N. Thompson*

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS.
 DATE SEPTEMBER 09, 20 13
 REVISED 12/02/13, 07/01/14, 07/31/14 & 09/10/15
 OPERATORS WELL NO. WV 514392
 API WELL NO. **47 - 017 - 06445H**
 STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1 / 200 FILE NO. 7871AD514392
 HORIZONTAL & VERTICAL CONTROL DETERMINED BY DGPS (SURVEY GRADE TIE TO CORS NETWORK)
 SCALE 1" = 2000'

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

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

LOCATION: ELEVATION 1,164'(GROUND) 1,130'(PROPOSED) WATERSHED LEFT FORK OF ARNOLD CREEK
 DISTRICT WEST UNION COUNTY DODDRIDGE QUADRANGLE WEST UNION 7.5'

SURFACE OWNER MARY FARR SECREST ACREAGE 829.75±
 ROYALTY OWNER LEWIS MAXWELL HRS ACREAGE 2654±
 PROPOSED WORK: LEASE NO. 080616
 DRILL CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE PLUG OFF OLD FORMATION
 PERFORATE NEW FORMATION PLUG AND ABANDON CLEAN OUT AND REPLUG OTHER
 PHYSICAL CHANGE IN WELL (SPECIFY) _____ TARGET FORMATION MARCELLUS
 ESTIMATED DEPTH TVD 6,622'

WELL OPERATOR EQT PRODUCTION COMPANY DESIGNATED AGENT REX C. RAY
 ADDRESS 115 PROFESSIONAL PLACE P.O. BOX 280 BRIDGEPORT, WV 26330 ADDRESS 115 PROFESSIONAL PLACE P.O. BOX 280 BRIDGEPORT, WV 26330

COUNTY NAME PERMIT

03/25/2016