



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

Austin Caperton, Cabinet Secretary
www.dep.wv.gov

Friday, June 22, 2018
WELL WORK PERMIT
Vertical / Re-Work

EQUITRANS, L. P.
625 LIBERTY AVE. SUITE 1700

PITTSBURGH, PA 15222

Re: Permit approval for 6207
47-049-00281-00-00

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

Please be advised that form WR-35, Well Operators Report of Well Work is to be submitted to this office within 90 days of completion of permitted well work, as should form WR-34 Discharge Monitoring Report within 30 days of discharge of pits, if applicable. Failure to abide by all statutory and regulatory provisions governing all duties and operations hereunder may result in suspension or revocation of this permit and, in addition, may result in civil and/or criminal penalties being imposed upon the operators.

Per 35 CSR 4-5.2.g this permit will expire in two (2) years from the issue date unless permitted well work is commenced. If there are any questions, please feel free to contact me at (304) 926- 0450.

James A. Martin
Chief

A blue ink signature of James A. Martin, written in a cursive style.

Operator's Well Number: 6207
Farm Name: CUNNINGHAM, C. H.
U.S. WELL NUMBER: 47-049-00281-00-00
Vertical Re-Work
Date Issued: 6/22/2018

PERMIT CONDITIONS

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

CONDITIONS

1. If the operator encounters an unanticipated void, or an anticipated void at an unanticipated depth, the operator shall notify the inspector within 24 hours. Modifications to the casing program may be necessary to comply with W. Va. Code §22-6-20, which requires drilling to a minimum depth of thirty feet below the bottom of the void, and installing a minimum of twenty (20) feet of casing. Under no circumstance should the operator drill more than fifty (50) feet below the bottom of the void or install less than twenty (20) feet of casing below the bottom of the void.
2. Pursuant to 35 CSR 4-19.1.a, at the request of the surface owner all water wells or springs within 1000 feet of the proposed well that are actually utilized for human consumption, domestic animals or other general use shall be sampled and analyzed.
3. Pursuant to 35 CSR 4-19.1.c, if the operator is unable to sample and analyze any water well or spring with one thousand (1,000) feet of the permitted well location, the Office of Oil and Gas requires the operator to sample, at a minimum, one water well or spring located between one thousand (1,000) feet and two thousand (2,000) feet of the permitted well location.
4. All pits must be lined with a minimum of 20 mil thickness synthetic liner.
5. In the event of an accident or explosion causing loss of life or serious personal injury in or about the well or while working on the well, the well operator or its contractor shall give notice, stating the particulars of the accident or explosion, to the oil and gas inspector and the Chief within twenty-four (24) hours.
6. During the surface casing and cementing process, in the event cement does not return to the surface, or any other casing string that is permitted to circulate cement to the surface and does not return to the surface, the oil and gas inspector shall be notified within twenty-four (24) hours
7. Well work activities shall not constitute a hazard to the safety of persons.
8. Operator shall provide the Office of Oil & Gas notification of the date that drilling commenced on this well. Such notice shall be provided by sending an email to DEPOOGNotify@wv.gov within 30 days of commencement of drilling.

CASING AND TUBING PROGRAM

TYPE SPECIFICATIONS

FOOTAGE

INTERVALS

CEMENT

| | <u>Size</u> | <u>Grade</u> | <u>Weight per ft</u> | <u>For Drilling</u> | <u>Left in Well</u> | <u>Fill -up (Cu. Ft.)</u> |
|--------------|-------------|--------------|----------------------|---------------------|---------------------|---------------------------|
| Conductor | 13-3/8" | | | 38' | 38' | |
| Fresh Water | 10-3/4 | | | 242' | 242' | |
| Coal | | | | | | |
| Intermediate | 8-5/8" | | | 1307' | 1307' | 27 |
| Production | 7" | J-55 | 20# | 2071' | 2071' | 26 |
| Tubing | | | | | | |
| Liners | | | | | | |

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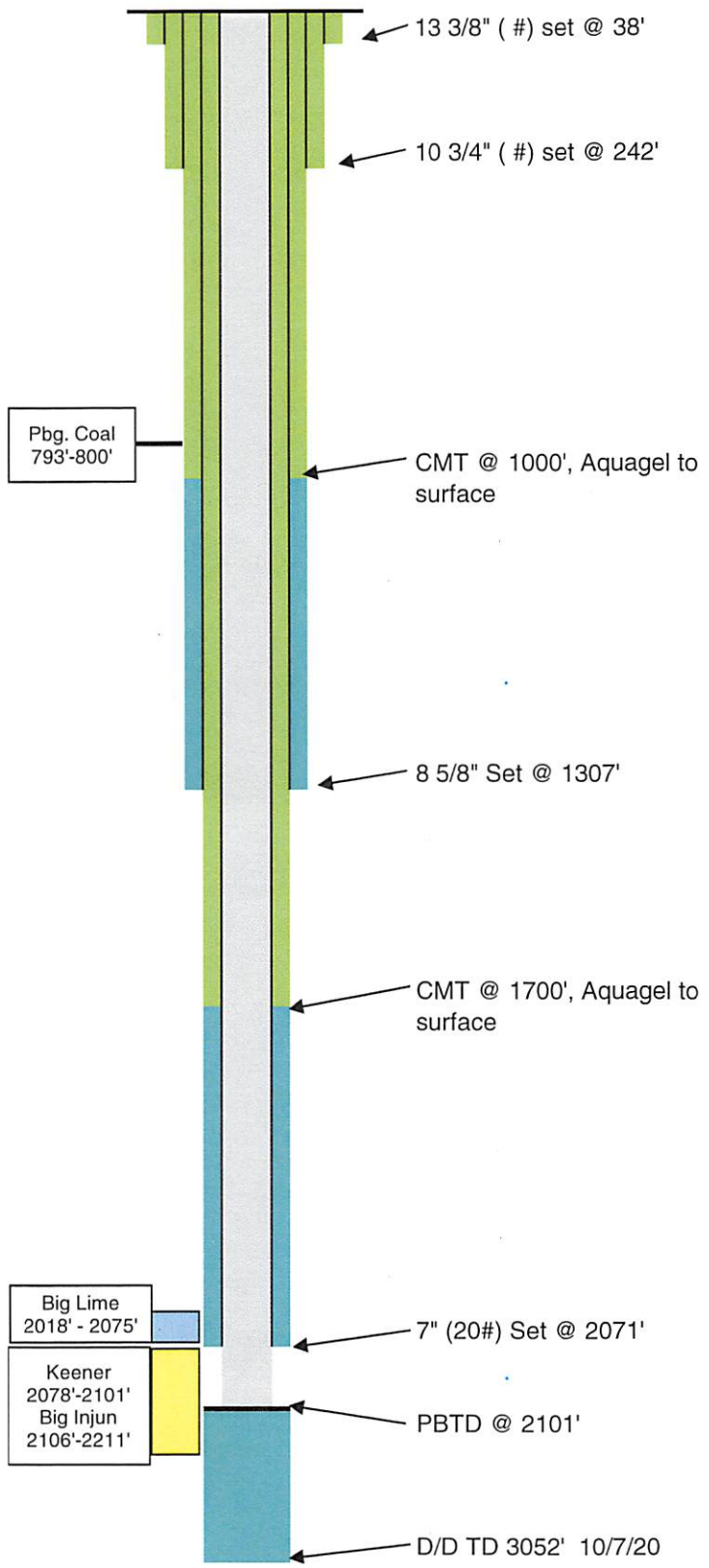
WV Department of
Environmental Protection

Well 6207 (I/W) *(Current)*

Logansport Storage Field

Well Name: G.H. Cunningham / T. Shaw
 API No.: 47-049-00281
 Lease No.: 24795A / 24795B-1
 Location: Mannington Dist., Marion Cc
 Drilled: 10/8/19, TD @ 2747'
 Drilled Deeper: 10/7/20, D/D TD 3052'
 Storage: 7/22/66
 Repaired & CO: 7/22/66, RDTD 3037'
 PBTD 2101'

* Presumed weights - exact weight unknown!



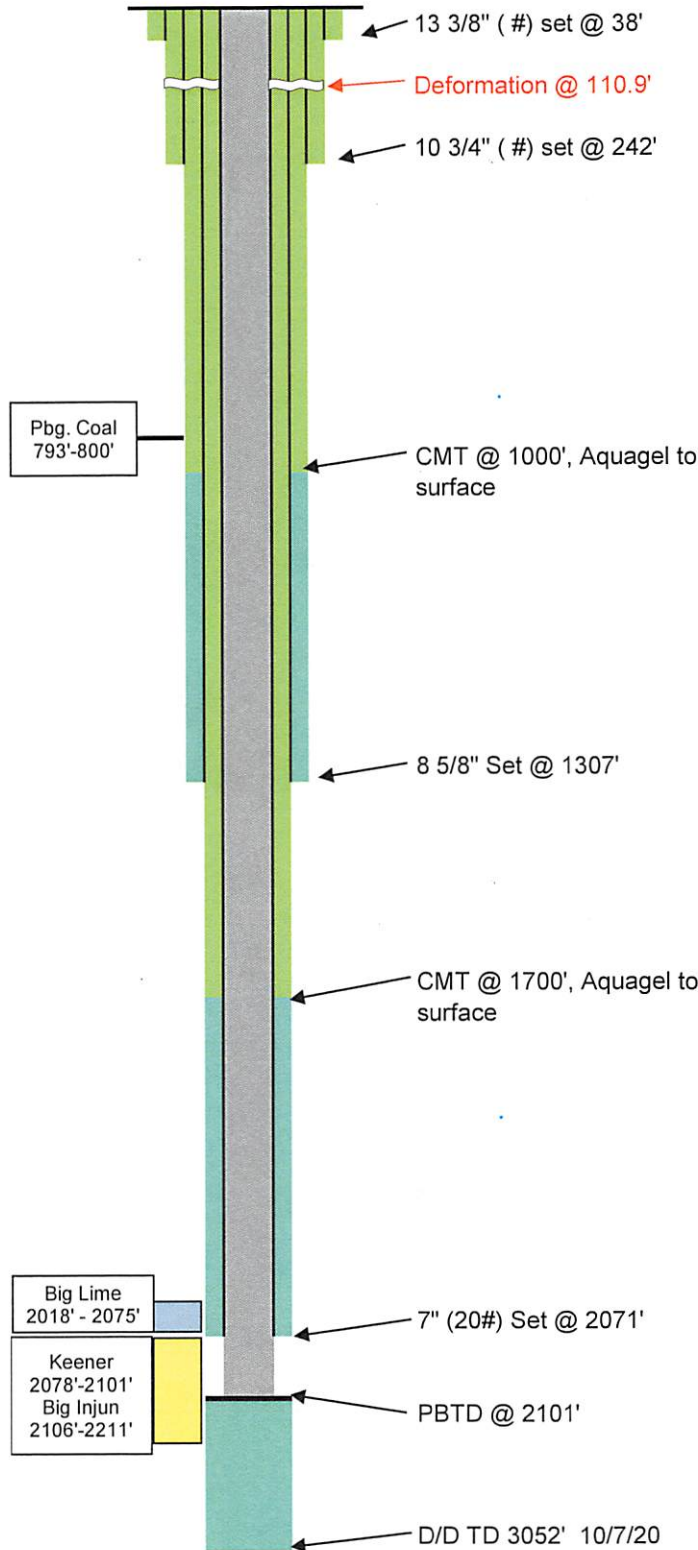
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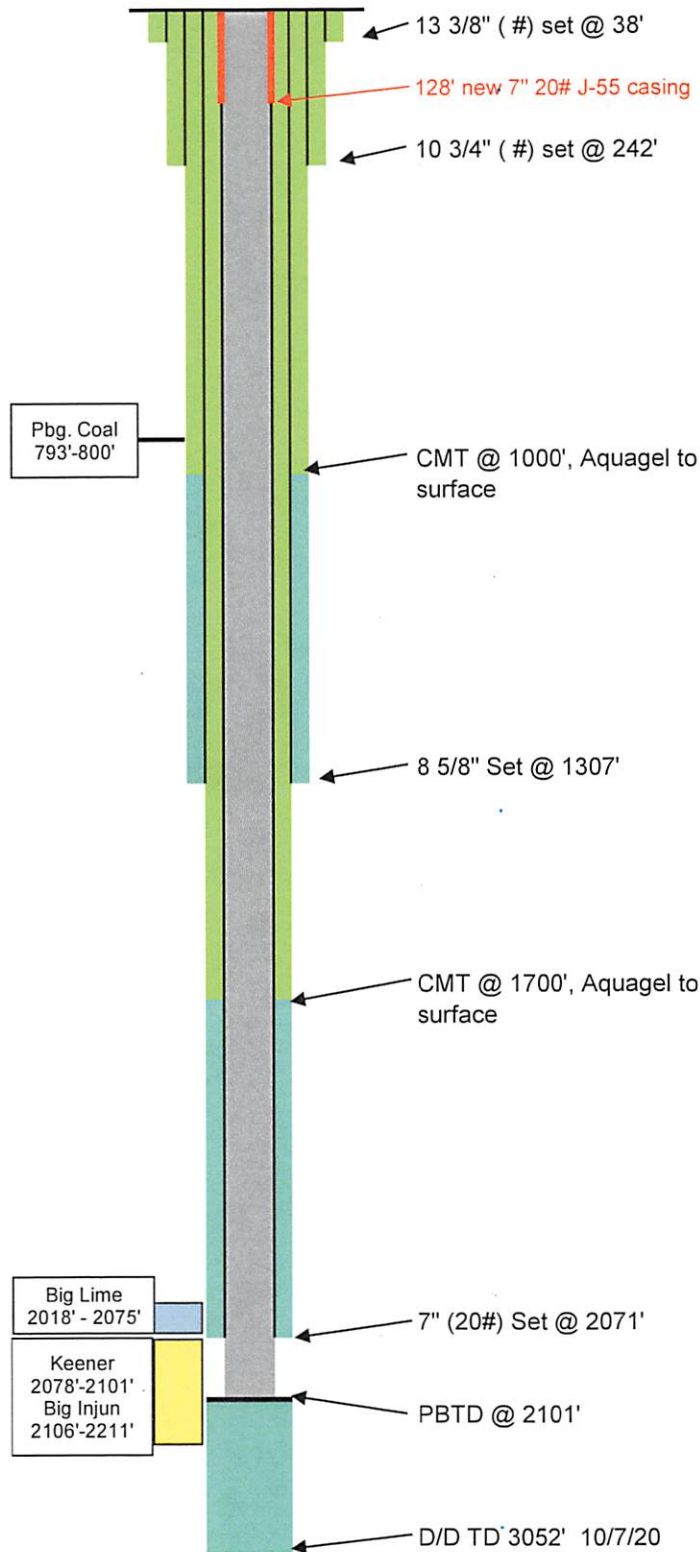
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WV Department of
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47-049-00281W

G/S Well 6207
R.D. 7-22-66

W. VA. DEPARTMENT OF ENVIRONMENTAL PROTECTION EQUITABLE Gas SYSTEM

INTERNAL CORRESPONDENCE

West Virginia Division

TO: Mr. J. A. Flinn
FROM: J. V. Goodman

DATE: August 23, 1966

SUBJECT: COMPLETION OF GAS STORAGE WELL NO. 6207

Well No. 6207, located on the Cunningham-Shaw property in Mannington District, Marion County, West Virginia, was completed July 22, 1966, at a total depth of 2,101 feet, as a gas storage well in the Logansport Gas Storage Pool.

This well was drilled under Construction Order No. 1772 and is located on Lease No. 24795A and B-1.

This lease covering 67 acres in classified as "Operated Gas Storage Property" by reason of storage well No. 6172 being located thereon.

J. V. GOODMAN
J. V. Goodman

RDW:ADO

| | |
|-------------------|---|
| WELL BOOK | W |
| DEPLETION | W |
| ABANDONMENT | X |
| MONTHLY RPT | W |
| TUBING-CASING | X |
| RPT TO STATE | W |
| WELL CARD | W |
| ANNUAL OPL'G REPT | W |
| PRESSURE | X |
| ROYALTY | X |
| PAID | X |
| LL | W |

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Eqt. Gas # 6207

Form 00-10

OK
WGP
9-8-66



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION

- Rotary
- Spudder
- Cable Tools
- Storage

Quadrangle Mannington SW 3.4

Permit No. MAR-281-R

WELL RECORD

Oil or Gas Well Gas Storage (KING)

Company Equitable Gas Company
 Address 120 Blvd. of Allies, Pittsburgh, Pa. 15219
 Farm C. H. Cunningham - T. Shaw Acres 67
 Location (waters) Mannington SW 3.4
 Well No. 6207 Elev. 1028
 District Mannington County Marion
 The surface of tract is owned in fee by C. H. Cunningham
Route 2 Address Mannington, W. Va.
 Mineral rights are owned by Thelma Shaw et al
Box 308 Address Fairmont, W. Va.
 Drilling commenced 4-6-65
 Drilling completed 7-22-66
 Date Shot From To
 With
 Open Flow /10ths Water in Inch
 /10ths Merc. in Inch
 Volume Cu. Ft.
 Rock Pressure lbs. hrs.
 Oil bbls., 1st 24 hrs.
 WELL ACIDIZED (DETAILS)
 WELL FRACTURED (DETAILS)
 RESULT AFTER TREATMENT (Initial open Flow or bbls.)
 ROCK PRESSURE AFTER TREATMENT HOURS
 Fresh Water Feet Salt Water Feet
 Producing Sand Depth

| Casing and Tubing | Used in Drilling | Left in Well | Packers |
|-------------------|------------------|------------------|----------------|
| Size | | | Kind of Packer |
| 16 | | | |
| 13 | | | |
| 10 | New Old | 212 38 280 | Size of |
| 8 1/4 | | 1307 1307 | |
| 6 3/4 | | 2071 2071 | Depth set |
| 5 3/16 | | | |
| 4 1/2 | | | |
| 3 | | | Perf. top |
| 2 | | | Perf. bottom |
| Liners Used | | | Perf. top |
| | | | Perf. bottom |

| Formation | Color | Hard or Soft | Top | Bottom | Oil Gas or Water | Depth | Remarks |
|-----------------------|-------|--------------|------|--------|------------------|-------|-------------|
| Coal | | | 271 | 279 | | | Driller |
| Coal | | | 355 | 360 | | | " |
| Mapletown Coal | | | 698 | 705 | | | " |
| Pgh. Coal | | | 793 | 800 | | | " |
| L. Dunkard Sand | | | 1158 | 1175 | | | |
| B. Dunkard Sand | | | 1216 | 1253 | | | |
| Freeport Sand | | | 1295 | 1315 | | | |
| Freeport Sand | | | 1325 | 1330 | | | |
| Gas Sand | | | 1423 | 1433 | | | |
| Gas Sand | | | 1505 | 1550 | | | |
| Salt Sand | | | 1610 | 1665 | | | |
| Salt Sand | | | 1760 | 1830 | | | |
| Maxton Sand | | | 1948 | 1992 | | | |
| Little Lime | | | 1996 | 2014 | | | |
| Big Lime | | | 2018 | 2075 | | | |
| Big Injun Sand | | | 2078 | 2211 | Gas | 2082 | Driller Pay |
| 50' Sand | | | 2699 | 2740 | | | |
| 30' Sand | | | 2780 | 2792 | | | |
| Gordon Stray Sand | | | 2805 | 2832 | | | |
| Gordon Stray Sand | | | 2848 | 2864 | | | |
| Gordon Sand | | | 2902 | 2924 | | | |
| 4th Sand | | | 2936 | 2968 | | | |
| 5th Sand | | | 2998 | 3006 | | | |
| Redrilled to | | | | 3037 | | | |
| Cement to | | | | 2101 | | | |
| Completed Total Depth | | | | 2101 | | | |

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Environmental Protection

| Formation | Color | Hard or Soft | Top <i>g</i> | Bottom | Oil, Gas or Water | Depth Found | Remarks |
|---|-------|--------------|--------------|--------|-------------------|-------------|---------|
| <p>NOTE: Log shown from Gamma Ray Survey except where noted. 8-1/4" casing cemented from 1307' to 1000', aquagel 1000' to surface. 6-5/8" casing cemented from 2071' to 1700', aquagel 1700' to surface. Formerly Equitable Gas Company outside well No. 2856. Located in Logansport Gas Storage Pool area.</p> | | | | | | | |

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Date August 24, 1986 Department of Environmental Protection

APPROVED EQUITABLE GAS COMPANY, Owner

By J. W. Budman
 Vice President and Chief System Geologist

COMPLETION OF WELL REPORT
FORM 039-10203

Equitable Gas - W. Va. Div.

COMPANY

DATE August 24, 1966

REPORT OF WELL NO. 6207 LESSOR Cunningham - Shaw
TOWNSHIP Hamlington COUNTY Marion STATE W. Va.

Re- DRILLING BEGAN 1-6-65 19 COMPLETED 7-22-1966

CASING AND TUBING DATA

| | CONDUCTOR | 13" | 10" | 8 1/2" | 6 3/4" | 6 1/2" | 5 1/2" | 4" | 3" | 2" |
|------------------|-----------|----------|-----|--------|--------|--------|--------|----|----|----|
| USED IN DRILLING | | Rev- 242 | | 1307 | 2071 | | | | | |
| LEFT IN WELL | | Old- 280 | | 1307 | 2071 | | | | | |

PACKER DATA

CASING CEMENTED

OIL DATA

| KIND | SIZE | SET AT | FROM | TO | INITIAL DAILY PROD. | PRODUCING SAND |
|------|------|--------|------|----|---------------------|----------------|
| | | | | | | |

OPEN FLOW VOLUME & PRESSURE DATA

| DATE | READING | LIQUID | SIZE | | MINUTES | | | | | | | | | | R. P. | HRS. | VOLUME M. C. F. | PRODUCING SAND |
|------|---------|--------|---------|--------|---------|---|---|---|---|---|----|----|----|----|-------|------|-----------------|----------------|
| | | | OPENING | TUBING | 1/2 | 1 | 2 | 3 | 4 | 5 | 10 | 15 | 20 | 30 | | | | |
| | | | | | | | | | | | | | | | | | | |

FORMATIONS DRILLED THROUGH

| FORMATIONS | TOP | BOTTOM | GAS AT | OIL AT | WATER AT | FORMATIONS | TOP | BOTTOM | GAS AT | OIL AT | WATER AT |
|--------------------------|------|--------|-----------------|--------|----------|-------------------------|------|--------|--------|--------|----------|
| MAKERS Coal | 271 | 279 | (Driller) | | | GORDON SAND (THIRD) | 2902 | 2924 | | | |
| MAKERS Coal | 355 | 360 | " | | | 4TH " | 2936 | 2968 | | | |
| MAKERS Coal | 698 | 705 | " | | | 4TH A " | | | | | |
| MAKERS Coal | 793 | 800 | " | | | 5TH " (MCDONALD) | 2998 | 3006 | | | |
| MAKERTOWN COAL | | | | | | 5TH A " | | | | | |
| L. DUNKARD SAND | 1158 | 1175 | | | | DAYARD " (SIXTH) | | | | | |
| S. DUNKARD SAND | 1216 | 1253 | | | | DAYARD STRAY SAND | | | | | |
| REPORT | 1295 | 1330 | (Br. 1315-25) | | | " " STR. SD. | | | | | |
| REPORT | 1423 | 1550 | (Br. 1133-1505) | | | ELIZABETH SAND | | | | | |
| REPORT | 1610 | 1830 | (Br. 1665-1760) | | | 1ST WARREN SAND | | | | | |
| IRD " " | | | | | | | | | | | |
| MAXTON " | 1948 | 1992 | | | | SPEECH, STRAY SAND | | | | | |
| LITTLE LIME | 1996 | 2014 | | | | SPEECHLEY SAND | | | | | |
| PENCIL CAVE | | | | | | TIGNA SAND | | | | | |
| BIG LIME (KEENER) | 2018 | 2075 | | | | 1ST BALLTOWN SAND | | | | | |
| BIG INJUN SAND | 2078 | 2211 | (2082-Driller) | | | | | | | | |
| EQUAW " | | | | | | SHEFFIELD " | | | | | |
| 2ND GAS " | | | | | | 1ST BRADFORD " (BENSON) | | | | | |
| MURRYSVILLE SAND (BEREA) | | | | | | KANE SAND | | | | | |
| UPPER 30' SAND | | | | | | | | | | | |
| QUANTZ SAND | | | | | | ELK SAND | | | | | |
| 4' SAND | 2699 | 2710 | | | | | | | | | |
| 4' SAND (NINEVAN) | 2780 | 2792 | | | | Cement to | 2101 | | | | |
| SHEE SAND | | | | | | Redrilled to | 3037 | | | | |
| GOR. STRAY SAND | 2805 | 2864 | (Br. 2832-48) | | | TOTAL DEPTH Driller | 3052 | | | | |

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T.D.W. Department
Environmental

REMARKS Log from Gamma Ray Survey except where noted. 8-1/4" casing cemented. 1307' to 1000'; Aquagel 1000' to surface. 6-5/8" casing cemented 2071' to 1700'. Aquagel 1700' to surface. Formerly Equitable Gas Outside Well No. 2856. Located in Logansport Gas Storage Pool area.

| | | | | | | | | | | | | | | | | | | | |
|---|--|--|--|--|--|--|--|--|--|--------------------------------|--|--|--|--|---|--|--|--|--|
| W.P. OR IST. <u>Mannington</u> | | | | | FORMATIONS | | | | | FORMATIONS | | | | | CLASSIFICATION <u>G/S</u> | | | | |
| COUNTY <u>Maryland</u> | | | | | <u>coal</u> | | | | | <u>DAKOTA SAND</u> | | | | | CASING AND TUBING DATA | | | | |
| LOCATED <u>2-9-65</u> | | | | | <u>371 279 (Drilled)</u> | | | | | <u>2699 2740</u> | | | | | SIZE PUT IN DATE PULLED DATE | | | | |
| O.N.O. <u>1772 DATE 2-9-65</u> | | | | | <u>355 360 (Drilled)</u> | | | | | <u>2780 2792</u> | | | | | <u>10' 38 10-19</u> | | | | |
| CONTRACTOR | | | | | <u>MAPLETON</u> | | | | | <u>31' SAND (NINEVAN)</u> | | | | | <u>10' 242 7-66</u> | | | | |
| PER FT. | | | | | <u>793 800 (Drilled)</u> | | | | | <u>SHREE SAND (BLUE MON.)</u> | | | | | <u>10' 1307</u> | | | | |
| COMMENCED <u>(6-4-19) 1st Drill 4-6-65</u> | | | | | <u>PITTSBURGH</u> | | | | | <u>GOR. STRAY SAND</u> | | | | | <u>6 1/4' 2071</u> | | | | |
| COMPLETED <u>(10-8-19) " 7-2-66</u> | | | | | <u>MURPHY SAND</u> | | | | | <u>GORDON SAND (THIRD)</u> | | | | | <u>6 1/2'</u> | | | | |
| PURCHASED FROM | | | | | <u>AMES LIMESTONE</u> | | | | | <u>4TH "</u> | | | | | <u>5 1/4'</u> | | | | |
| DATE PURCHASED | | | | | <u>BAKERSTOWN COAL</u> | | | | | <u>4TH A "</u> | | | | | <u>5 1/4'</u> | | | | |
| OUTSIDE SERIAL NO. <u>2856</u> | | | | | <u>L. DUNKARD SAND</u> | | | | | <u>5TH " (MCDONALD)</u> | | | | | <u>5 1/4'</u> | | | | |
| OLD TO | | | | | <u>L. DUNKARD SAND</u> | | | | | <u>5TH A "</u> | | | | | <u>4"</u> | | | | |
| DATE SOLD | | | | | <u>1216 1223</u> | | | | | <u>BAYARD " (EIGHTH)</u> | | | | | <u>3"</u> | | | | |
| DATE ABANDONED | | | | | <u>UPPER FREEPORT COAL</u> | | | | | <u>BAYARD STRAY SAND</u> | | | | | <u>2"</u> | | | | |
| DATE PLUGGED <u>(7-31-41)</u> | | | | | <u>Freeport Sand 1295 1330 (Br. 1315-25)</u> | | | | | <u>" " STR. SD.</u> | | | | | <u>2"</u> | | | | |
| ANNUAL ROYALTY \$ DUE | | | | | <u>U. KITTY "</u> | | | | | <u>ELIZABETH SAND</u> | | | | | <u>1ST WARREN SAND</u> | | | | |
| WORKMEN'S COMP. NOTICE POSTED | | | | | <u>M. " "</u> | | | | | <u>1ST WARREN SAND</u> | | | | | <u>2ND " "</u> | | | | |
| DRILLER'S LOG IN FILE <u>Genevieve Fay</u> | | | | | <u>L. " "</u> | | | | | <u>2ND " "</u> | | | | | <u>3RD " "</u> | | | | |
| COAL DATA | | | | | VANPORT LIME | | | | | SPEECH, STRAY SAND | | | | | PACKER DATA | | | | |
| OWNER <u>Riddle Nataska Sy Nocate</u> | | | | | CLARION COAL | | | | | SPEECHLEY SAND | | | | | DATE SET KIND SIZE SET AT DATE PULLED | | | | |
| ADDRESS <u>Farmhart, W.Va.</u> | | | | | BROOKVILLE COAL | | | | | TIONA SAND | | | | | | | | | |
| DATE NOTIFIED LOCATION <u>2-11-65</u> | | | | | <u>1423 1500 (Pr. 1423-405)</u> | | | | | 1ST BALLTOWN SAND | | | | | | | | | |
| DATE APPROVED " | | | | | <u>1610 1830 (Pr. 1665-1760)</u> | | | | | 2ND " " | | | | | | | | | |
| DEPARTMENT OF MINES DATA | | | | | 2ND " " | | | | | 1ST BRADFORD " (BENSON) | | | | | | | | | |
| MINE PERMIT NO. <u>168281R DATE 2-22-65</u> | | | | | 3RD " " | | | | | 2ND " " | | | | | | | | | |
| MINE DPR. PERMIT NO. " | | | | | WARTON " <u>1948 1992</u> | | | | | 3RD " " | | | | | | | | | |
| MINE LOGGING PERMIT NO. " | | | | | LITTLE LIME <u>1996 2014</u> | | | | | KANE SAND | | | | | CASING CEMENTED | | | | |
| FREE GAS DATA | | | | | PENCIL CAVE | | | | | ELK SAND | | | | | FROM TO | | | | |
| ANNUAL ALLOWANCE | | | | | BIG LIME GREENER <u>2018 2075</u> | | | | | GRISKANT SAND | | | | | OH- DATA | | | | |
| CONSUMER | | | | | BIG INJUN SAND <u>2078 2211 2082 (Driller Fay)</u> | | | | | CONCRETE FC <u>2101 - T.D.</u> | | | | | (1) 3/4" cemented to loco. Agree to surface. | | | | |
| ADDRESS | | | | | SQUAW " | | | | | CONCRETE FC <u>3037</u> | | | | | (2) 5/8" cemented to 1700'. Agree to surface. | | | | |
| | | | | | 2ND GAS " | | | | | TOTAL DEPTH <u>D/D</u> | | | | | | | | | |
| | | | | | MURRYSVILLE SAND (BEREA) | | | | | TOTAL DEPTH <u>ENGINE</u> | | | | | | | | | |

OPEN FLOW VOLUME & PRESSURE DATA

PIPE LINE DATA

| DATE | READING | LIQUID | SIZE | | MINUTES | | | | | | 24 HR. 24 DAY | | VOLUME | PRODUCING SAND | C/O NO. | DATE LAID | DATE RCL'D | SIZE | FEET LAID | FEET RCL'D | REMARKS |
|------|---------|--------|---------|--------|---------|---|---|---|---|----|---------------|----|--------|----------------|---------|-----------|------------|------|-----------|------------|---------|
| | | | OPENING | TUBING | 1 | 2 | 3 | 4 | 5 | 15 | 30 | 60 | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | |

REPAIR AND DRILLING DEEPER

SHOOTING RECORD

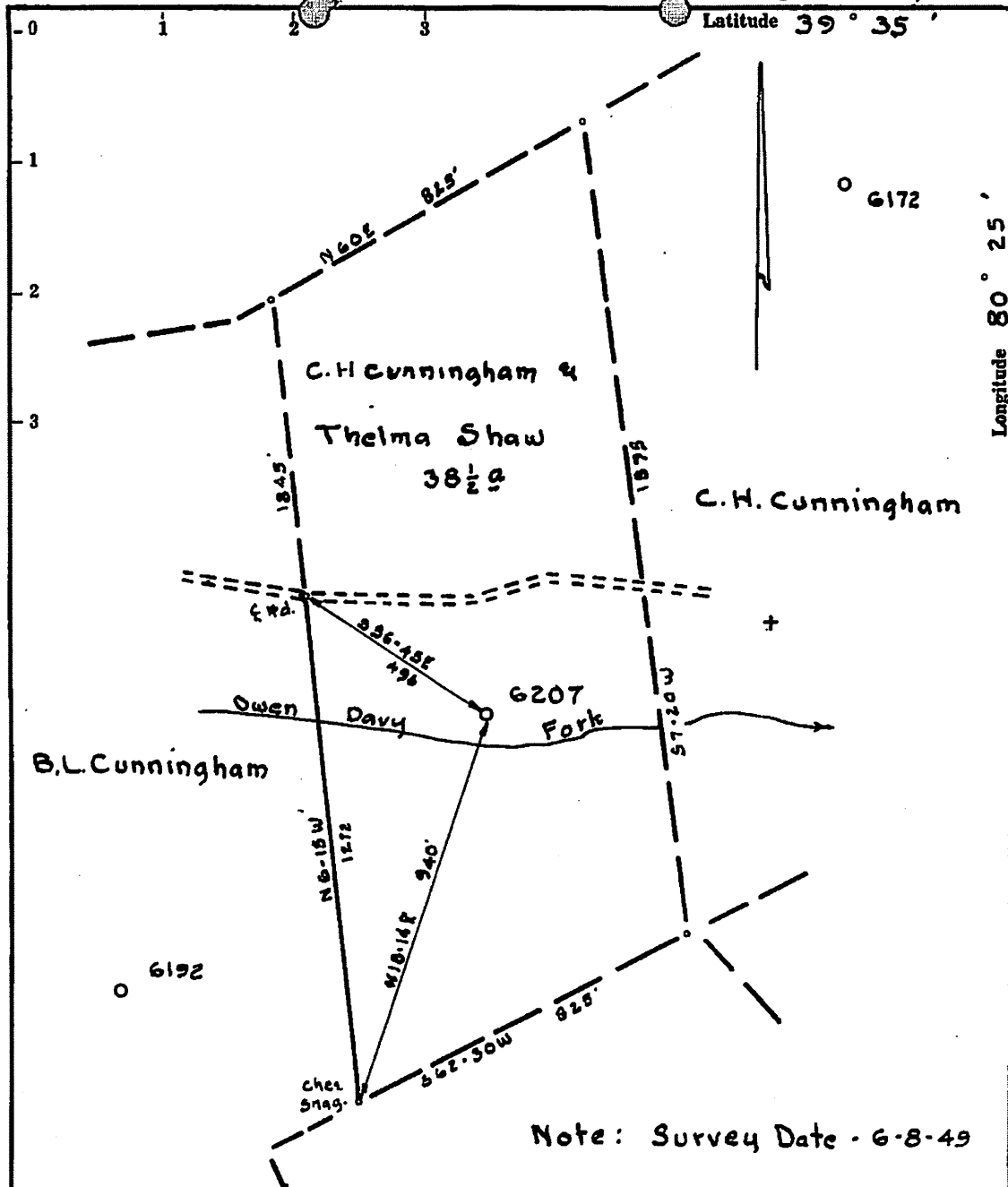
| W/O-M/O NO. | DATE | REASON | COMMENCED | COMPLETED | C/O OR D/D TO | VOLUME | | ROCK PRESS. | | DATE | AMT. | DEPTH | VOLUME | |
|-------------|------|--------|-----------|-----------|---------------|--------|-------|-------------|-------|------|------|-------|--------|-------|
| | | | | | | BEFORE | AFTER | BEFORE | AFTER | | | | BEFORE | AFTER |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |

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Office of Oil and Gas
APR 27 2018
Department of Environmental Protection

PRESENT
Gas Storage
Logansport
7-22-66

47-049-00281W

6207



- Fracture....
- Redrill.....
- New Location...
- Drill Deeper.....
- Abandonment.....

Source of Elevation Co. Records
 I, the undersigned, hereby certify that this map is correct to the best of my knowledge and belief and shows all the information required by paragraph 6 of the rules and regulations of the oil and gas section of the mining laws of West Virginia.
 Minimum accuracy, one part in 200'

Company EQUITABLE Gas Co., W.Va. Div.
 Address Pittsburgh, Pa
 Farm C.H. Cunningham & T. Shaw.
 Tract _____ Acres 67 Lease No. 24795A-B
 Well (Farm) No. 1 Serial No. 6207
 Elevation (Spirit Level) 1028'
 Quadrangle Mannington SW 34
 County Marion District Mannington
 Engineer J. W. Deffen
 Engineer's Registration No. 1084
 File No. 163/63 Drawing No. _____
 Date 2-9-65 Scale 1" = 300'

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION
 CHARLESTON

WELL LOCATION MAP
 FILE NO. MAR-281-B

+ Denotes location of well on United States Topographic Maps, scale 1 to 62,500, latitude and longitude lines being represented by border lines as shown.
 — Denotes one inch spaces on border line of original tracing.

RECEIVED
 Office of Oil and Gas
 APR 27 2018
 WV Department of Environmental Protection

WW-2A
(Rev. 6-14)

1.) Date: April 25, 2018
2.) Operator's Well Number 606207
State County Permit
3.) API Well No.: 47- 049 - 00281

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

4) Surface Owner(s) to be served: (a) Name Marion County Commission Address 200 Jackson St Fairmont, WV 26554
(b) Name _____ Address _____
(c) Name _____ Address _____
5) (a) Coal Operator Name See attached sheet Address _____
(b) Coal Owner(s) with Declaration Name See attached sheet Address _____
(c) Coal Lessee with Declaration Name See attached sheet Address _____
6) Inspector Sam Ward Address PO Box 2327 Buckhannon, WV 26201 Telephone 304-389-7583

TO THE PERSONS NAMED ABOVE TAKE NOTICE THAT:

 Included is the lease or leases or other continuing contract or contracts by which I hold the right to extract oil and gas
OR

 x Included is the information required by Chapter 22, Article 6, Section 8(d) of the Code of West Virginia (see page 2)

I certify that as required under Chapter 22-6 of the West Virginia Code I have served copies of this notice and application, a location plat, and accompanying documents pages 1 through on the above named parties by:

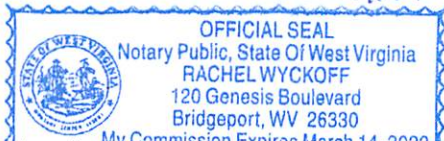
- Personal Service (Affidavit attached)
- X Certified Mail (Postmarked postal receipt attached)
- Publication (Notice of Publication attached)

I have read and understand Chapter 22-6 and 35 CSR 4, and I agree to the terms and conditions of any permit issued under this application.

I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form and all attachments, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate and complete.

I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

Well Operator Equitrans, L.P. Contact: _____
By: Samuel K. Smallwood Brian Hall
Its: Attorney-in-Fact NWV Ops Reg Manager
Address: 303 Sand Cut Rd Same address
Clarksburg, WV 26301
Telephone: 304-626-7999 (304) 626-6419
Email: SSmallwood@eat.com BRHall@eat.com



Subscribed and sworn before me this 25th day of April, 2018

Rachel Wyckoff Notary Public

My Commission Expires March 14, 2022

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Office of Oil and Gas

APR 27 2018

Oil and Gas Privacy Notice

Operator's Well No. Cunningham 6207 (606207)

ATTACHMENT WW-2A-5)(a) Coal Operator, (b) Coal Owner(s) with Declaration, (c) Coal Lessee with Declaration

Murray Energy Corporation
Murray American Energy, Inc.
46226 National Rd
St. Clairsville, OH 43950

CONSOL Pennsylvania Coal Company LLC
ATTN: Casey Saunders
1000 CONSOL Energy Dr
Cannonsburg, PA 15137-6506

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APR 27 2018

WV Department of
Environmental Protection

WW-2A1
(Rev. 1/11)

Operator's Well Number 606207

**INFORMATION SUPPLIED UNDER WEST VIRGINIA CODE
Chapter 22, Article 6, Section 8(d)
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:

| Grantor, Lessor, etc. | Grantee, Lessee, etc. | Royalty | Book/Page |
|-----------------------|-----------------------|---------|-----------|
| See Attached Sheet | | | |


**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 is initiated.

Well Operator:
By: Its:


Equitrans, L.P.
Samuel K. Smallwood, Attorney-in-Fact

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Office of Oil and Gas

APR 27 2018

WW-2A1 ATTACHMENT

Operator's Well No. Cunningham 6207 (606207)

| <u>Lease No.</u> | <u>Grantor, Lessor, etc.</u> | <u>Grantee, Lessee, etc.</u> | <u>Royalty</u> | <u>Book/Page</u> |
|------------------|---------------------------------|------------------------------|-------------------------|------------------|
| <u>124795</u> | <u>David E. Bowyer, ETAL</u> | | <i>\$300.00 Storage</i> | |
| | C.H. Cunningham ETAL | Pittsburgh & WV Gas Company | | 465/309 |
| | Thelma Shaw | Equitable Gas Company | | 613/465 |
| | Pittsburgh & WV Gas Company | Equitable Gas Company | | 511/539 |
| | C.H. Cunningham ETAL | Equitable Gas Company | | 541/17 |
| | Equitable Gas Company, LLC ETAL | Equitrans, L.P. | | AB 46/660 |
| | Equitable Gas Company, LLC ETAL | Equitrans, L.P. | | 1148/296 |

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APR 27 2018

WV Department of
Environmental Protection

WW-9
(5/16)

API Number 47 - 049 - 00281
Operator's Well No. 606207

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
OFFICE OF OIL AND GAS
FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

Operator Name Equitrans, L.P. OP Code 307652

Watershed (HUC 10) Owen Davy Fork of Buffalo Creek Quadrangle Glover Gap 7.5'

Do you anticipate using more than 5,000 bbls of water to complete the proposed well work? Yes No

Will a pit be used? Yes No

If so, please describe anticipated pit waste: N/A

Will a synthetic liner be used in the pit? Yes No If so, what ml.? _____

Proposed Disposal Method For Treated Pit Wastes:

- Land Application (if selected provide a completed form WW-9-GPP)
- Underground Injection (UIC Permit Number _____)
- Reuse (at API Number _____)
- Off Site Disposal (Supply form WW-9 for disposal location)
- Other (Explain _____)

*S.Dew
H/26/2018*

Will closed loop system be used? If so, describe: Yes, above ground steel pits connected to mud pump and well

Drilling medium anticipated for this well (vertical and horizontal)? Air, freshwater, oil based, etc. Brine

-If oil based, what type? Synthetic, petroleum, etc. N/A

Additives to be used in drilling medium? N/A

Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc. Removed Offsite

-If left in pit and plan to solidify what medium will be used? (cement, lime, sawdust) N/A

-Landfill or offsite name/permit number? See Attached Sheet

Permittee shall provide written notice to the Office of Oil and Gas of any load of drill cuttings or associated waste rejected at any West Virginia solid waste facility. The notice shall be provided within 24 hours of rejection and the permittee shall also disclose where it was properly disposed.

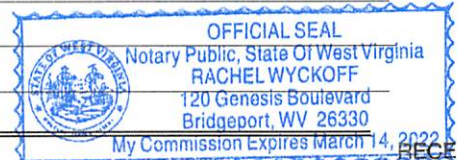
I certify that I understand and agree to the terms and conditions of the GENERAL WATER POLLUTION PERMIT issued on April 1, 2016, by the Office of Oil and Gas of the West Virginia Department of Environmental Protection. I understand that the provisions of the permit are enforceable by law. Violations of any term or condition of the general permit and/or other applicable law or regulation can lead to enforcement action.

I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form and all attachments thereto and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine or imprisonment.

Company Official Signature *Samuel K. Smallwood*

Company Official (Typed Name) Samuel K. Smallwood

Company Official Title Attorney-in-Fact



Subscribed and sworn before me this 25th day of April, 2018

Rachel Wyckoff Notary Public

My commission expires March 14, 2022

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Office of Oil and Gas

APR 27 2018

Attachment WW-9 Landfill or Offsite Disposal Name/Permit Number

| Region | Facility Type | Facility Location Name | Street | City | State | Zip Code |
|---------------|---------------|-------------------------------------|------------------------------|--------------|-------|----------|
| Miscellaneous | Disposal Well | Nichols (SWIW #13) 1 - A | 10555 Vero Road | Belpre | OH | 45714 |
| | Disposal Well | D - 1 (SWIW #7) | 3549 Warner Road | Fowler | OH | 44118 |
| | Disposal Well | Goff (SWIW #27) 1 | 9350 East Pike Road | Norwich | OH | 43767 |
| | Disposal Well | Eva Jean Root Wolf 1 and 4, Wolf 2 | 5480 State Route 5 | Newton Falls | OH | 44444 |
| | Disposal Well | Pander R&P (SWIW # 15 & #16) 1 & 2 | 5310 State Route 5 | Newton Falls | OH | 44444 |
| | Disposal Well | John G. Deiores Blazek 2 | 3700 Allyn Road | Hiram | OH | 44234 |
| | Disposal Well | Belden & Blake Corporation 2 - 1050 | 8000 Edison Street | Louisville | OH | 44641 |
| | Disposal Well | Plum Creek 1 | 4285 Karg Industrial Parkway | Kent | OH | 44240 |
| | Disposal Well | Ed Lyons (Genet) 1 | 7700 Lincoln Street | East Canton | OH | 44730 |

List of Ohio SWDs 6.13.2013

| Wells | County | Township | State | Permit #s | Entity |
|---|----------------------------|--------------|------------|--------------------------|--------------------------------------|
| Belden & Blake #2 | Stark | Marlboro | Ohio | 34-151-2-3420 | Heckmann Water Resources (CVR), Inc. |
| Blazek #2 | Portage | Hiram | Ohio | 34-133-2-0525 | Heckmann Water Resources (CVR), Inc. |
| Lyons #1 | Stark | Osnaburg | Ohio | 34-151-2-1198 | Heckmann Water Resources (CVR), Inc. |
| Pander R & P #1 | Trumbull | Newton | Ohio | 34-155-2-3795 | Heckmann Water Resources (CVR), Inc. |
| Pander R & P #2 | Trumbull | Newton | Ohio | 34-155-2-3794 | Heckmann Water Resources (CVR), Inc. |
| Plum Creek #1 | Portage | Brimfield | Ohio | 34-133-2-3614 | Heckmann Water Resources (CVR), Inc. |
| Eva Jean Root Wolf #1 | Trumbull | Newton | Ohio | 34-155-2-1893 | Heckmann Water Resources (CVR), Inc. |
| Wolf #2 | Trumbull | Newton | Ohio | 34-155-2-1894 | Heckmann Water Resources (CVR), Inc. |
| Eva Jean Root Wolf #4 | Trumbull | Newton | Ohio | 34-155-2-3203 | Heckmann Water Resources (CVR), Inc. |
| D-1 (AnnaRock) | Trumbull | Fowler | Ohio | 34-155-2-2403 | Heckmann Water Resources (CVR), Inc. |
| Nichols #1-A | Washington | Dunham | Ohio | 34-167-2-3862 | Heckmann Water Resources (CVR), Inc. |
| Goff #1 Appalachian Water (APP or AWS) | Muskingum Connellsville | Unjon N/A | Ohio PA | 34-119-2-8776 2608201 | Heckmann Water Resources (CVR), Inc. |

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OH Department of
Environmental Protection

Proposed Revegetation Treatment: Acres Disturbed less than one (1) acre Prevegetation pH N/A

Lime 3 Tons/acre or to correct to pH 6 1/2

Fertilizer type 10-20-20 or equivalent

Fertilizer amount 600 lbs/acre

Mulch Hay or Straw Tons/acre

Seed Mixtures

Temporary

Permanent

Seed Type lbs/acre

Seed Type lbs/acre

N/A

Meadow Mix 40 lbs per ac

Attach:

Maps(s) of road, location, pit and proposed area for land application (unless engineered plans including this info have been provided). If water from the pit will be land applied, provide water volume, include dimensions (L, W, D) of the pit, and dimensions (L, W), and area in acres, of the land application area.

Photocopied section of involved 7.5' topographic sheet.

Plan Approved by: S. D. Warratt

Comments: Pre-Seed/Mulch as soon as reasonably possible per regulation. Upgrade ETS as necessary per WV DEP ETS Manual.

Title: OOG Inspector

Date: 4/26/2018

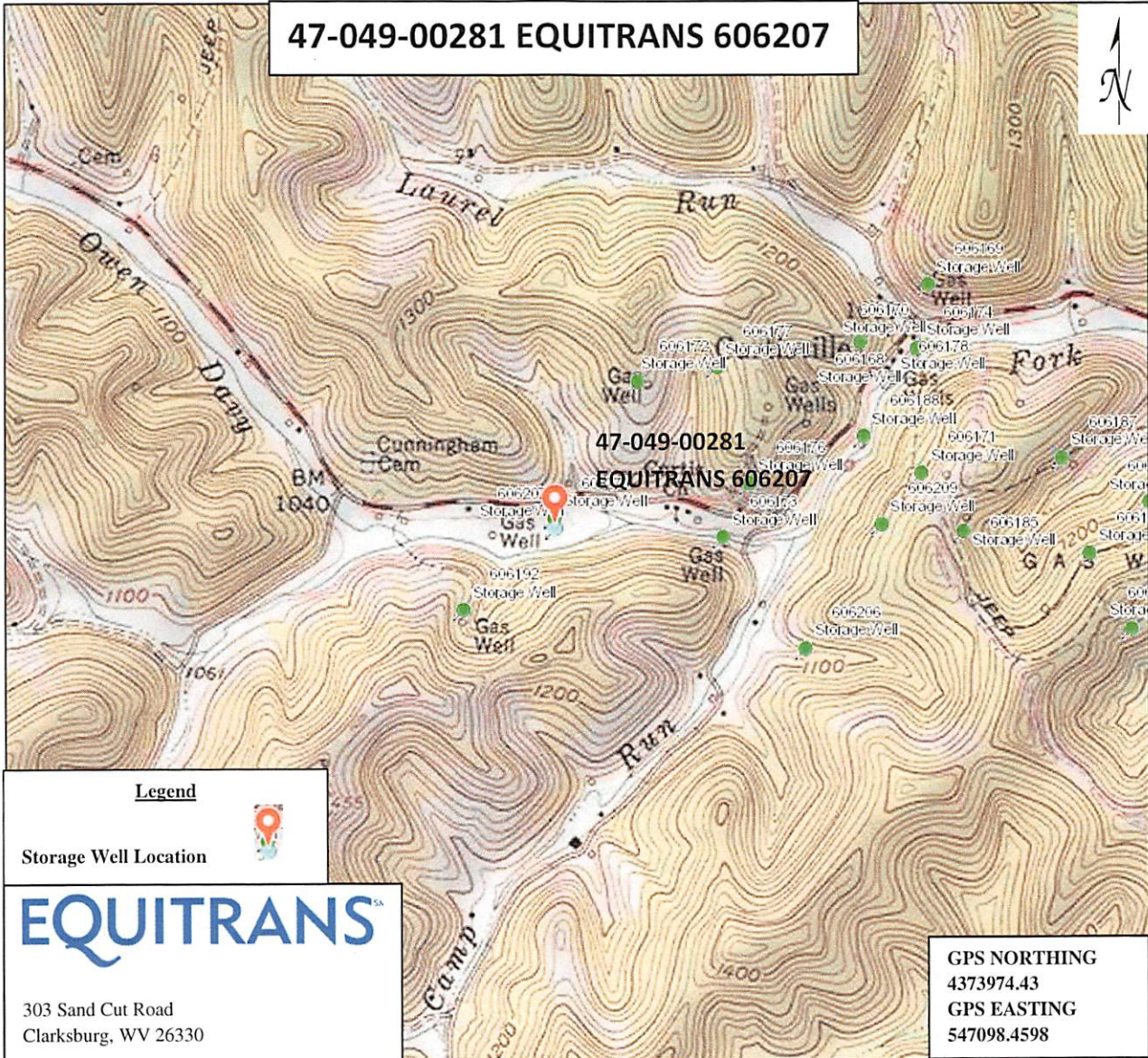
Field Reviewed? () Yes () No

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APR 27 2018

WV Department of
Environmental Protection

47-049-00281 EQUITRANS 606207



DISCLAIMER: ALL INFORMATION DEPICTED ON THIS MAP PROVIDED BY EQT (SAID TERM SHALL MEAN EQT PRODUCTION OR EQT MIDSTREAM, DEPENDING ON WHICH EQT ENTITY PROVIDED THE MAP) IS FOR INFORMATION PURPOSES ONLY AND SHALL BE TREATED AS CONFIDENTIAL INFORMATION AND SHALL ONLY BE USED FOR THE SOLE PURPOSE FOR WHICH IT WAS PROVIDED. ANY OTHER USE OF THIS MAP, OR THE INFORMATION INCLUDED THEREON, IS STRICTLY PROHIBITED. THE EXACT LOCATION OF THE FACILITIES (INCLUDING BUT NOT LIMITED TO WELLS, PIPELINES, STRUCTURES, FACILITIES, LEASE BOUNDARIES OR ANY OTHER INFORMATION) SHOWN ON THIS MAP SHALL NOT BE RELIED UPON FOR THE SPECIFIC LOCATION OF THE FACILITIES; AND THE PARTIES AGREE THAT THE INFORMATION SHOWN ON THE MAP MAY NOT HAVE BEEN PLACED ON THE MAP USING SURVEY LINES OR GPS COORDINATES. EQT MAKES NO EXPRESS OR IMPLIED REPRESENTATION OR WARRANTY AS TO THE ACCURACY OF THE MAP, OR THE INFORMATION SHOWN THEREON. THE SPECIFIC LOCATION OF ANY OF THE INFORMATION, INCLUDING ANY WELL, PIPELINE, STRUCTURE, FACILITY OR LEASE BOUNDARY, SHOULD BE DETERMINED BY A FIELD SURVEY PERFORMED BY A LICENSED SURVEYOR UPON CONSULTATION WITH EQT. THIS MAP MAY NOT BE COPIED OR OTHERWISE MADE AVAILABLE TO ANY OTHER PARTY IN PAPER OR ELECTRONIC FORMAT WITHOUT WRITTEN CONSENT FROM EQT. RECIPIENT EXPRESSLY AGREES THAT ITS USE AND/OR RETAINER OF THIS MAP SHALL BE DEEMED ITS AGREEMENT TO THE TERMS SET FORTH ABOVE.

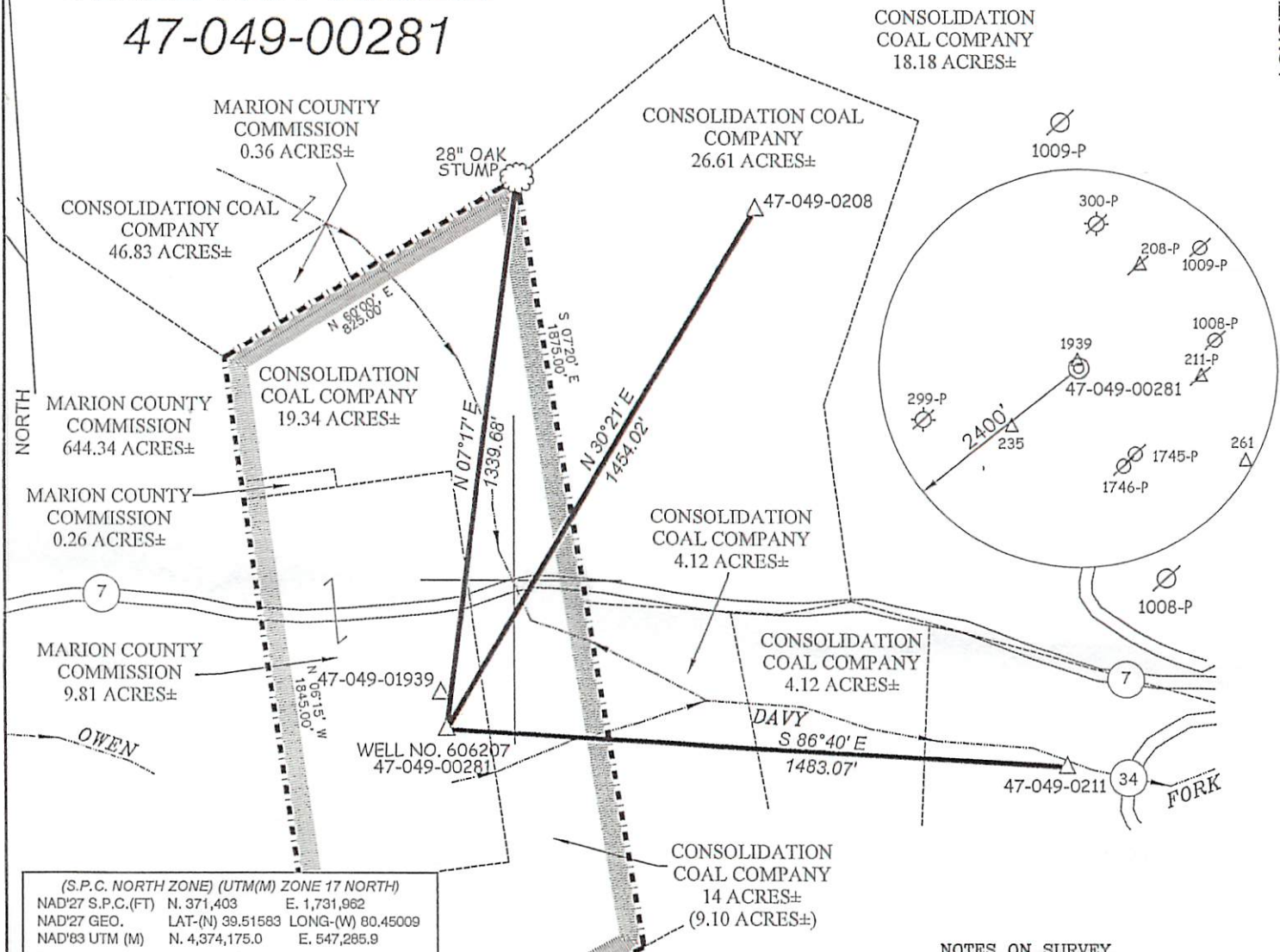
Quad: Glover Gap 7.5' Scale: Not Mapped to Scale
 County: Marion Date: 4/25/2018
 District: Mannington API: 47-049-00281

CUNNINGHAM LEASE

38.5 OF 67 ACRES±

WELL NO. 606207

47-049-00281



(S.P.C. NORTH ZONE) (UTM(M) ZONE 17 NORTH)
 NAD'27 S.P.C.(FT) N. 371,403 E. 1,731,962
 NAD'27 GEO. LAT-(N) 39.51583 LONG-(W) 80.45009
 NAD'83 UTM (M) N. 4,374,175.0 E. 547,285.9

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 Land & Energy Development
 Solutions from the ground up.
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 www.slsurveys.com

NOTES ON SURVEY

1. TIES TO WELLS AND CORNERS ARE BASED ON GRID NORTH FOR THE WV STATE PLANE COORDINATE SYSTEM NORTH ZONE NAD '27.
2. LEASE BOUNDARY SHOWN HEREON TAKEN FROM A PLAT DATED 02/09/1965 AS PREPARED BY JAMES JEFFRIES FOR A.P.I. NO. 47-049-0281.
3. SURFACE OWNER AND ADJOINER INFORMATION TAKEN FROM THE ASSESSOR AND COUNTY CLERK RECORDS OF MARION COUNTY IN MAY, 2015.
4. WELL COORDINATES ESTABLISHED BY DGPS(SUBMETER MAPPING GRADE).



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. 849 *C. Victor Moyers*

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS.
 DATE JUNE 14, 20 18
 REV. DATE _____
 OPERATORS WELL NO. CUNNINGHAM NO. 606207
 API WELL NO. 47 - 049 - 00281W
 STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1 / 200 FILE NO. 6423P0281.dwg (223-70)
 PROVEN SOURCE OF ELEVATION DGPS (SUBMETER MAPPING GRADE) SCALE 1" = 400'

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 1,022' WATERSHED OWEN DAVY FORK OF BUFFALO CREEK

DISTRICT MANNINGTON COUNTY MARION QUADRANGLE GLOVER GAP 7.5'

SURFACE OWNER MARION COUNTY COMMISSION ACREAGE 9.81±

ROYALTY OWNER C.H. CUNNINGHAM & T. SHAW LEASE ACREAGE 38.5± OF 67±

PROPOSED WORK: LEASE NO. 124795

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) RE-WORK TARGET FORMATION BIG INJUN/KEENER
BIG INJUN & KEENER FORMATIONS ESTIMATED DEPTH 3,052'

WELL OPERATOR EQUITRANS, LP DESIGNATED AGENT BRIAN HALL
 ADDRESS 625 LIBERTY AVE, SUITE 1700 ADDRESS 303 SAND CUT RD
PITTSBURGH, PA 15222 CLARKSBURG, WV 26330

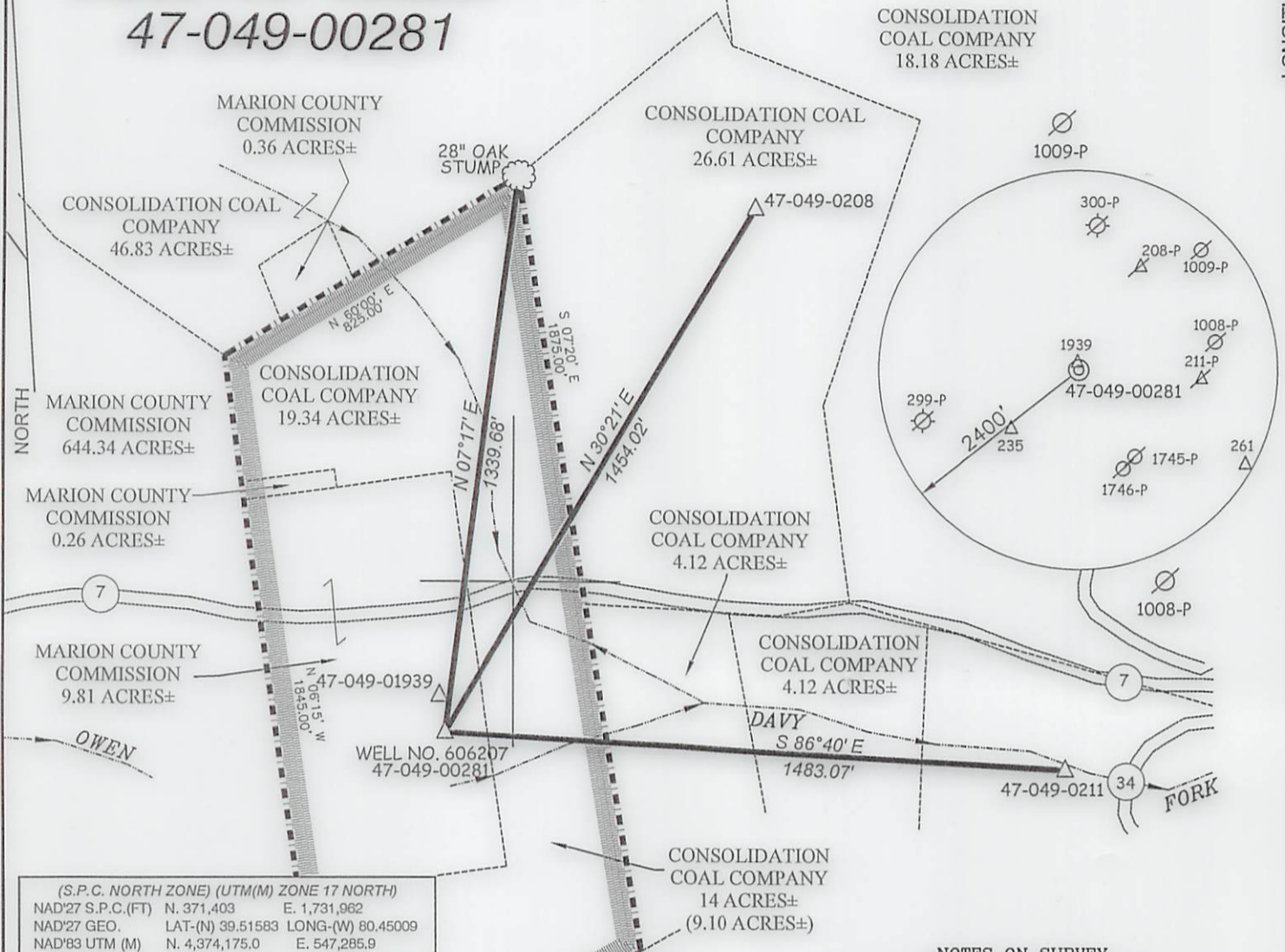
COUNTY NAME
 PERMIT

CUNNINGHAM LEASE

38.5 OF 67 ACRES±

WELL NO. 606207

47-049-00281



(S.P.C. NORTH ZONE) (UTM(M) ZONE 17 NORTH)
 NAD'27 S.P.C.(FT) N. 371,403 E. 1,731,962
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CHARLES R. RUSSELL ET UX.
 33.72 ACRES±

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47-049-00281W

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MINIMUM DEGREE OF ACCURACY 1 / 200 FILE NO. 6423P0281.dwg (223-70)
 PROVEN SOURCE OF ELEVATION DGPS (SUBMETER MAPPING GRADE) SCALE 1" = 400'

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

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

LOCATION: ELEVATION 1,022' WATERSHED OWEN DAVY FORK OF BUFFALO CREEK
 DISTRICT MANNINGTON COUNTY MARION QUADRANGLE GLOVER GAP 7.5'

SURFACE OWNER MARION COUNTY COMMISSION ACREAGE 9.81±
 ROYALTY OWNER C.H. CUNNINGHAM & T. SHAW LEASE ACREAGE 38.5± OF 67±

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DRILL ___ CONVERT ___ DRILL DEEPER ___ REDRILL ___ FRACTURE OR STIMULATE ___ PLUG OFF OLD FORMATION ___ PERFORATE NEW FORMATION ___ PLUG AND ABANDON ___ CLEAN OUT AND REPLUG ___ OTHER X

PHYSICAL CHANGE IN WELL (SPECIFY) RE-WORK TARGET FORMATION BIG INJUN/KEENER
BIG INJUN & KEENER FORMATIONS ESTIMATED DEPTH 3,052'

WELL OPERATOR EQUITRANS, LP DESIGNATED AGENT BRIAN HALL
 ADDRESS 625 LIBERTY AVE, SUITE 1700 ADDRESS 303 SAND CUT RD
PITTSBURGH, PA 15222 CLARKSBURG, WV 26330

COUNTY NAME
 PERMIT