



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

Harold D. Ward, Cabinet Secretary
www.dep.wv.gov

Thursday, May 13, 2021
WELL WORK PLUGGING PERMIT
Vertical Plugging

SIGMA CORPORATION
8 CAPITOL STREET, SUITE 500
CHARLESTON, WV 25301

Re: Permit approval for 5
47-045-00858-00-00

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.

Upon completion of the plugging well work, the above named operator will reclaim the site according to the provisions of WV Code 22-6-30. Please be advised that form WR-38, Affidavit of Plugging and Filling Well, 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

Operator's Well Number: 5
Farm Name: ALDREDGE, LUCILLE
U.S. WELL NUMBER: 47-045-00858-00-00
Vertical Plugging
Date Issued: 5/13/2021

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4704500858f

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. All pits must be lined with a minimum of 20 mil thickness synthetic liner.
2. 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.
3. Well work activities shall not constitute a hazard to the safety of persons.

05/14/2021

4704500858P

WW-4B
Rev. 2/01

1) Date 10/20, 2020
2) Operator's
Well No. Aldredge 5
3) API Well No. 47-045 - 00858

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

APPLICATION FOR A PERMIT TO PLUG AND ABANDON

4) Well Type: Oil ___/ Gas X/ Liquid injection ___/ Waste disposal ___/
(If "Gas, Production X or Underground storage ___) Deep ___/ Shallow X

5) Location: Elevation 973' Watershed Guyandotte River
District Triadelphia County Logan Quadrangle Mallory 7.5'

6) Well Operator Sigma Corp. 7) Designated Agent Tom Hansen
Address 8 Capitol St., Ste. 500 Address 8 Capitol St.
Charleston, WV 25301 Charleston, WV 25301

8) Oil and Gas Inspector to be notified Name Terry Urban
Address PO Box 1207
Clendenin, WV 25045
9) Plugging Contractor Name Stalnaker Energy Corp.
Address 220 W. Main St.
Glennville, WV 26351

10) Work Order: The work order for the manner of plugging this well is as follows:

See attached plugging procedure. *Operator to core all parts, Oil & gas
bearing zones, Salt & Elevations, Coal & Freshwater with Cement.
Displace & head with 6% Coal*

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WV Department of
Environmental Protection

Notification must be given to the district oil and gas inspector 24 hours before permitted work can commence.

Work order approved by inspector *Terry Urban* Date 10-26-20

05/14/2021

PLUGGING PROCEDURE

Boyd O & G, Inc
Aldredge #5
API #47-045-00858
Elevation 959'

DISPLACE CEMENT WITH GEL,
WHICH IS FRESH WATER WITH A
MINIMUM OF 6% BENTONITE (BY WEIGHT).

DATA:

- 4-1/2" Casing to 3211'
- Top of Cement - Estimate @ 2500'
- 7" Casing - 2262' - CTS? - IT APPEARS THAT 7" CASING WAS NOT LEFT IN THE WELL gmn
- Perforations - 2522' - 3142'

CAPACITIES:

- 2-3/8" Tubing - 262 Ft./Bbl
- 4-1/2" Casing - 62 Ft./Bbl
- 6 1/4" Open Hole - 27.47 Ft./Bbl
- 7" Casing - 24.7 Ft./Bbl

PRODECURE:

DAY ONE

1. Check pressure on tubing and 4 1/2" casing.
2. Blow well down into tank.
3. Release packer and pull 2 3/8" tubing.
4. Run in hole with sand line tools and tag bottom of hole.
5. Rig up and run 2 3/8" tubing string to bottom or at least 3200'

DAY TWO

6. Set Cement Plug From TD of tubing to 100' above top perforation, 2422'.
 - a. Estimated 76.6 ft³, 65 Sacks of Cement, 13.6 bbl cement. Class "A" 2% CaCl₂.
 - b. Displace With enough GEL to balance plug.
7. Pull and lay down tubing. WOC

DAY THREE

8. Rig up Nine Energy and tag top of cement to be sure cement top is above 2422'
9. Pull CBL and free point to determine free point of pipe above cement top estimated at 2500'.
10. Run in with Nine Energy and cut 4 1/2" casing. Make sure it is free.
11. Because of the amount of open hole estimated between the casing cut at 2500' and the bottom of the 7" casing, recommend using the 4 1/2" casing as the plugging string to prevent the hole caving in on top of the cut.
12. Mix and pump 200 foot cement plug for casing cut plug.
 - a. 70 ft³, 60 sacks of Class A Cement with 2% CaCl₂, 12.45Bbl Cement.
 - b. Displace with 38 barrels of 6% gelled water.
13. Pull 4 1/2" casing to 1000' 850' 850' - 750'
14. Set 100' cement plug at WATER from 1000' to 900'.
 - a. 25 ft³, 21 Sacks of Cement, 4.5 barrels of Cement.
 - b. Displace with 22 barrels of gelled water.
15. Pull 4-1/2" Casing to 350'
16. Set 350' Cement Plug From 350' to Surface
 - a. 68 sks of cement
 - b. Grout to surface
17. Pull Remaining 4-1/2" Casing from Well
18. Set Monument - 6" casing, 30" above surface and 10" below surface, identified with the API number and filled with concrete.

See ww-4B
will cover all zones with cement
including perf OOG zones Sub Elevation
POA & Freshwater

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Environmental Protection

14C) SET 100' CLASS A
CEMENT PLUG FROM 630'-
530' TO COVER WATER
@ 600'.
gmn

[Signature]
10-26-20



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION /0

4704500858A
2-9-65

- Rotary
- Spudder
- Cable Tools
- Storage

Quadrangle Gilbert

WELL RECORD

Permit No. Log-858

Oil or Gas Well Gas
(KIND)

Company R. W. Adams & Assoc.
Address Suite 1420-1700 Broadway, Denver, Colo.
Farm Lucille Aldredge Acres 1305
Location (waters) Guyan River
Well No. (5) five Elev. 959.20'
District Triadelphia County Logan
The surface of tract is owned in fee by Joe T. Fish-John B. Aldredge-Stella P. Aldredge
~~Mineral rights are owned by~~ Logan, W. Va. Address Same
Drilling commenced 5-25-65
Drilling completed 8-20-65
Date Shot _____ From _____ To _____
With _____
Open Flow 28 /10ths Water in 2 Inch
/10ths Merc. in _____ Inch
Volume 230,000 Cu. Ft.
Rock Pressure _____ lbs. _____ hrs.
Oil _____ bbls., 1st 24 hrs.
WELL ACIDIZED Big Lime 9-2-65
W/1000 gal. xf and 6000 gal. Jel. x 100
WELL FRACTURED Berea 8-27-65 W/28,500# 20-40 Sand and 491 Bbl. Slick Water

Casing and Tubing	Used in Drilling	Left in Well	Packers
Size			Kind of Packer
16			
13	11'-8"	11'-8"	
10	472'	472'	Size of
8 1/4			
6 1/2 7"	2262'		Depth set
5 1/2 4 1/2"		3211.23'	
3			Perf. top 3126
2			Perf. bottom 3142
Liners Used			Perf. top 2522
			Perf. bottom 2534

CASING CEMENTED 4 1/2" SIZE 3211 No. Ft. 8-24-65 Date
Dewell

COAL WAS ENCOUNTERED AT None FEET _____ INCHES
_____ FEET _____ INCHES FEET _____ INCHES
_____ FEET _____ INCHES FEET _____ INCHES

RESULT AFTER TREATMENT 3,500,000 Cu. ft.
ROCK PRESSURE AFTER TREATMENT 635 psi 17 hrs.
Fresh Water 3 bailers/hrs. Feet 85' & 315' Salt Water 1 1/2 BPH Feet 840'

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth	RECEIVED Office of Oil and Gas marks
soil			0	10			OCT 28 2020
sandstone			10	33			WV Department of Environmental Protection
slate			33	80			
sand			80	260	water	85	fresh
slate			260	300			
sand			300	399	water	315	increased
slate			399	407			
sand			407	560			
slate			560	592			
sand			592	676	water	600	depleted 3 days
slate			676	752			
sand			752	1049	water	840	
slate			1049	1060			
lime			1060	1100			
sand			1100	1348			
slate			1348	1405			

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West Virginia
Dept. of Mines
05/14/2021

Formation	Color	Hard or Soft	Top 10	Bottom	Oil, Gas or Water	Depth Found	Remarks
slate & shells			1405	1510			
sand			1510	1575			
slate			1575	1614			
sand			1614	1755			
slate			1755	1795			
red rock			1795	1801			
slate & shells			1801	1826			
sand			1826	1977			
slate & shells			1977	1986			
red rock			1986	1992			
lime shells			1992	2000			
slate			2000	2063			
red rock			2063	2080			
shells			2080	2103			
sand			2103	2137			
slate & shells			2137	2166			
lime			2166	2193			
slate			2193	2195			
big lime			2195	2553	gas	2519-37	58/10w-2"
red injun			2553	2603			
gray injun			2603	2686			
slate & shells			2686	3103			
coffee shale			3103	3119			
Berea sand			3119	3133			
slate & shells			3133	3213			Td

05/14/2021

Date 2-7, 1946APPROVED Robert W. Adams & Assoc., OwnerBy E. O. Gregory - Engineer
(Title)

4704500858P

WW-4A
Revised 6-07

1) Date: 10/20/20
2) Operator's Well Number
Aldredge 5

3) API Well No.: 47 - 045 - 00858

**STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS
NOTICE OF APPLICATION TO PLUG AND ABANDON A WELL**

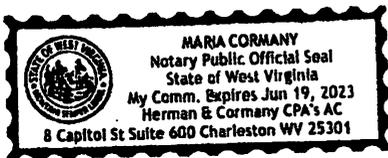
4) Surface Owner(s) to be served:	5)/(a) Coal Operator
(a) Name <u>Christian Fork Land Company, Inc.</u>	Name <u>N/A</u>
Address <u>PO Box 219</u>	Address _____
<u>Coalton, WV 26257</u>	_____
(b) Name _____	(b) Coal Owner(s) with Declaration
Address _____	Name <u>Nons.</u>
_____	Address _____
(c) Name _____	Name _____
Address _____	Address _____
_____	_____
6) Inspector <u>Terry Urban</u>	(c) Coal Lessee with Declaration
Address <u>PO Box 1207</u>	Name <u>N/A</u>
<u>Clendenin, WV 25045</u>	Address _____
Telephone <u>304-548-5915</u>	_____

TO THE PERSONS NAMED ABOVE: You should have received this Form and the following documents:

- (1) The application to Plug and Abandon a Well on Form WW-4B, which sets out the parties involved in the work and describes the well its and the plugging work order; and
- (2) The plat (surveyor's map) showing the well location on Form WW-6.

The reason you received these documents is that you have rights regarding the application which are summarized in the instructions on the reverse side. However, you are not required to take any action at all.

Take notice that under Chapter 22-6 of the West Virginia Code, the undersigned well operator proposes to file or has filed this Notice and Application and accompanying documents for a permit to plug and abandon a well with the Chief of the Office of Oil and Gas, West Virginia Department of Environmental Protection, with respect to the well at the location described on the attached Application and depicted on the attached Form WW-6. Copies of this Notice, the Application, and the plat have been mailed by registered or certified mail or delivered by hand to the person(s) named above (or by publication in certain circumstances) on or before the day of mailing or delivery to the Chief.



Well Operator Sigma Corp.
 By: Tom Hansen *[Signature]*
 Its: President
 Address 8 Capitol St., Ste. 500
Charleston, WV 25301
 Telephone _____

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Office of Oil and Gas

OCT 30 2020

Subscribed and sworn before me this 28 day of October, 2020
Maria Cormany Notary Public
My Commission Expires 6/19/2023

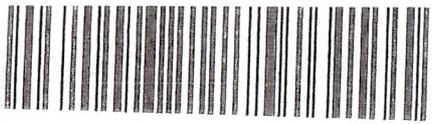
WV Department of
Environmental Protection

Oil and Gas Privacy Notice

The Office of Oil and Gas processes your personal information, such as name, address and phone number, as a part of our regulatory duties. Your personal information may be disclosed to other State agencies or third parties in the normal course of business or as needed to comply with statutory or regulatory requirements, including Freedom of Information Act requests. Our office will appropriately secure your personal information. If you have any questions about our use of your personal information, please contact DEP's Chief Privacy Officer at depprivacyofficer@wv.gov.

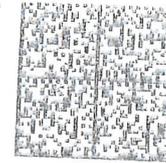
05/14/2021

CERTIFIED MAIL



7018 2290 0000 1197 7615

FIRST CLASS



US POSTAGE

02 7H \$ 007.80⁰
0001267858 OCT 22 2020
MAILED FROM ZIP CODE 26351

SMITH LAND SURVEYING, INC.

12 Vanhorn Drive
PO Box 150
Glenville, WV 26351

TO: CHRISTIAN FORK LAND CO. INC.
PO BOX 219
COALTON, WV 26217

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OCT 28 2020
WV Department of
Environmental Protection

4704500858F

47045008584

WW-9
(5/16)

API Number 47 - 045 - 00858
Operator's Well No. Aldredge 5

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

Operator Name Sigma Corp. OP Code 306472

Watershed (HUC 10) Guyandotte River Quadrangle Mallory 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

T.U.
10-26-20

If so, please describe anticipated pit waste: _____

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 AST hauled to Approved Wastewater Disposal Site)

Will closed loop system be used? If so, describe: Well will be plumbed into a closed tank and disposed at an approved facility.

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

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

Additives to be used in drilling medium? Bentonite Gel

Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc. N/A

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

-Landfill or offsite name/permit number? _____

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 [Signature]

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Office of Oil and Gas

Company Official (Typed Name) Tom Hansen

Company Official Title President

OCT 30 2020

Subscribed and sworn before me this 28 day of October, 2020

WV Department of Environmental Protection

[Signature] Notary Public

My commission expires 1/19/2023



Proposed Revegetation Treatment: Acres Disturbed 1 Prevegetation pH 7

Lime 3 Tons/acre or to correct to pH 6.5

Fertilizer type 10-20-20

Fertilizer amount 1/3 ton lbs/acre

Mulch Hay 2 Tons/acre

Seed Mixtures

Temporary		Permanent	
Seed Type	lbs/acre	Seed Type	lbs/acre
KY-31	40	Orchard Grass	15
Alsike Clover	5	Alsike Clover	5
Annual Rye	15		

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: *[Signature]*

Comments:

Operator to use State's BAP on reclamation

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OCT 26 2020

Title: *Ingeen De Gas*

Date: 10/26/20

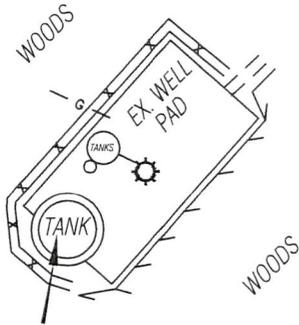
WV Department of
Environmental Protection

Field Reviewed? () Yes () No

Form WW-9

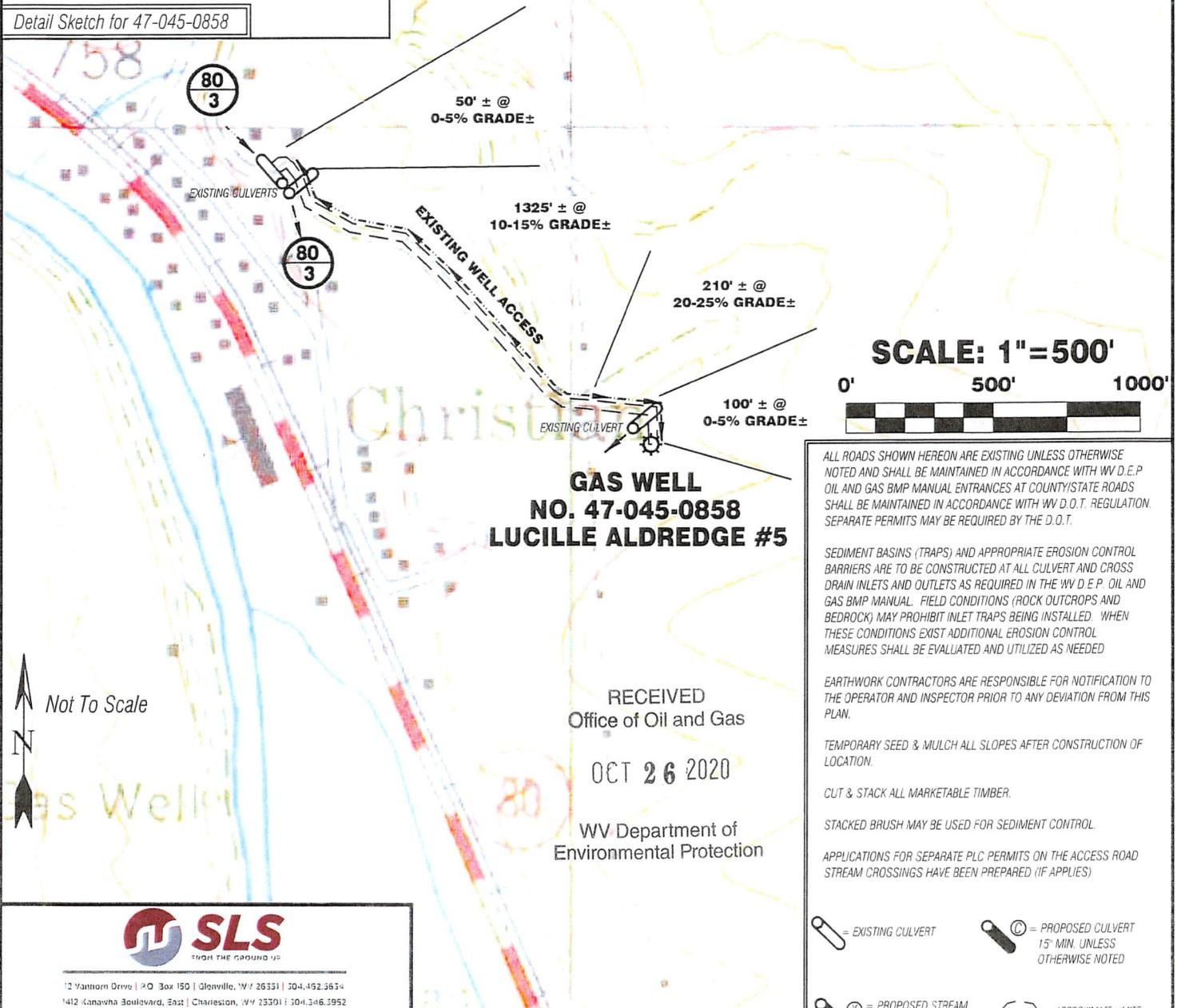
LUCILLE ALDREDGE LEASE 47-045-0858

page of



PROPOSED TEMPORARY
FLOW BACK TANK

Detail Sketch for 47-045-0858



GAS WELL NO. 47-045-0858 LUCILLE ALDREDGE #5

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OCT 26 2020

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Environmental Protection

ALL ROADS SHOWN HEREON ARE EXISTING UNLESS OTHERWISE NOTED AND SHALL BE MAINTAINED IN ACCORDANCE WITH WV D.E.P. OIL AND GAS BMP MANUAL ENTRANCES AT COUNTY/STATE ROADS SHALL BE MAINTAINED IN ACCORDANCE WITH WV D.O.T. REGULATION. SEPARATE PERMITS MAY BE REQUIRED BY THE D.O.T.

SEDIMENT BASINS (TRAPS) AND APPROPRIATE EROSION CONTROL BARRIERS ARE TO BE CONSTRUCTED AT ALL CULVERT AND CROSS DRAIN INLETS AND OUTLETS AS REQUIRED IN THE WV D.E.P. OIL AND GAS BMP MANUAL. FIELD CONDITIONS (ROCK OUTCROPS AND BEDROCK) MAY PROHIBIT INLET TRAPS BEING INSTALLED. WHEN THESE CONDITIONS EXIST ADDITIONAL EROSION CONTROL MEASURES SHALL BE EVALUATED AND UTILIZED AS NEEDED.

EARTHWORK CONTRACTORS ARE RESPONSIBLE FOR NOTIFICATION TO THE OPERATOR AND INSPECTOR PRIOR TO ANY DEVIATION FROM THIS PLAN.

TEMPORARY SEED & MULCH ALL SLOPES AFTER CONSTRUCTION OF LOCATION.

CUT & STACK ALL MARKETABLE TIMBER.

STACKED BRUSH MAY BE USED FOR SEDIMENT CONTROL.

APPLICATIONS FOR SEPARATE PLC PERMITS ON THE ACCESS ROAD STREAM CROSSINGS HAVE BEEN PREPARED (IF APPLIES)

- = EXISTING CULVERT
- = PROPOSED CULVERT 15' MIN. UNLESS OTHERWISE NOTED
- = PROPOSED STREAM CROSSING
- = APPROXIMATE LIMITS OF DISTURBANCE

TOPO SECTION OF MALLORY 7.5'
TOPO QUADRANGLE

05/14/2021



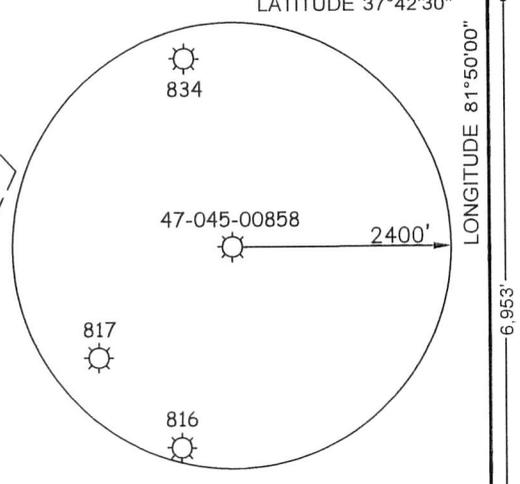
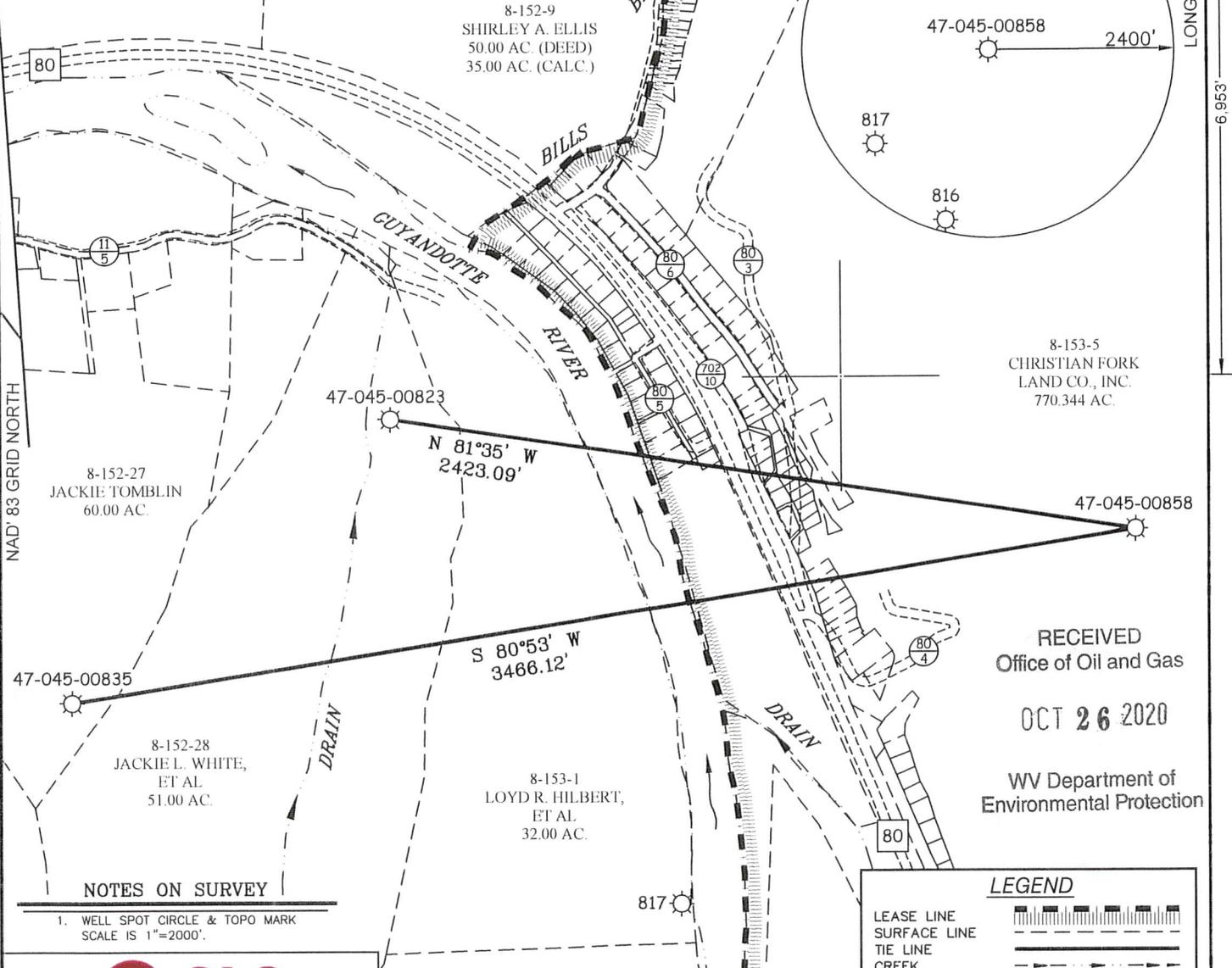
12 Yantown Drive | P.O. Box 150 | Glenville, WV 26331 | 204.452.5634
1412 Canawha Boulevard, East | Charleston, WV 25301 | 204.346.3952
354 East Beckley Bypass | Beckley, WV 25501 | 204.253.3295
sivw.com

DRAWN BY: CPM	FILE NO. 9039	DATE 10-16-20	CADD FILE: 9039REC858.dwg
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4704500858P

FORM WW 6

LUCILLE ALDREDGE LEASE
1305 ACRES
ALDREDGE NO. 5
47-045-00858



NOTES ON SURVEY

- 1. WELL SPOT CIRCLE & TOPO MARK SCALE IS 1"=2000'.

12 Vamborn Drive | P.O. Box 150 | Glenville, WV 26031 | 304.462.5634
 1412 Kanawha Boulevard, East | Charleston, WV 25301 | 304.546.3992
 254 East Beckley Bypass | Beckley, WV 25801 | 304.255.5296
 slswv.com

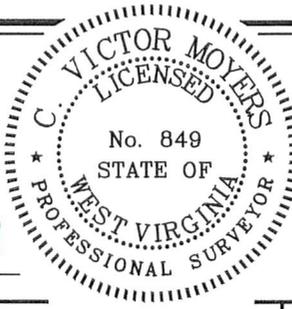
(S.P.C. NORTH ZONE) (UTM(M) ZONE 17 NORTH)
 NAD'83 S.P.C.(FT) N. 252,103.1 E. 1,722,619.6
 NAD'83 GEO. LAT-(N) 37.689240 LONG-(W) 81.849737
 NAD'83 UTM (M) N. 4,170,676.1 E. 425,080.9

LEGEND

- LEASE LINE [Symbol]
- SURFACE LINE [Symbol]
- TIE LINE [Symbol]
- CREEK [Symbol]
- COUNTY ROUTE [Symbol]
- PROPOSED WELL [Symbol]
- EXISTING WELL [Symbol]
- PERMITTED WELL [Symbol]
- TAX MAP-PARCEL 00-00 [Symbol]

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 Office of Oil and Gas
 OCT 26 2020
 WV Department of
 Environmental Protection

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.



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS.
 DATE OCTOBER 19, 20 20
 REVISED _____, 20 ____
 OPERATORS WELL NO. ALDREDGE NO. 5
 API WELL NO. 47 - 045 - 00858P
 STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1 / 2500 FILE NO. 9039P0858.dwg
 HORIZONTAL & VERTICAL CONTROL DETERMINED BY DGPS (SUBMETER MAPPING GRADE TIE TO CORS NETWORK) SCALE 1" = 500'

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

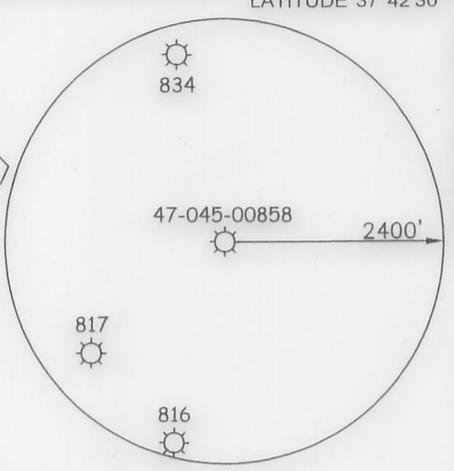
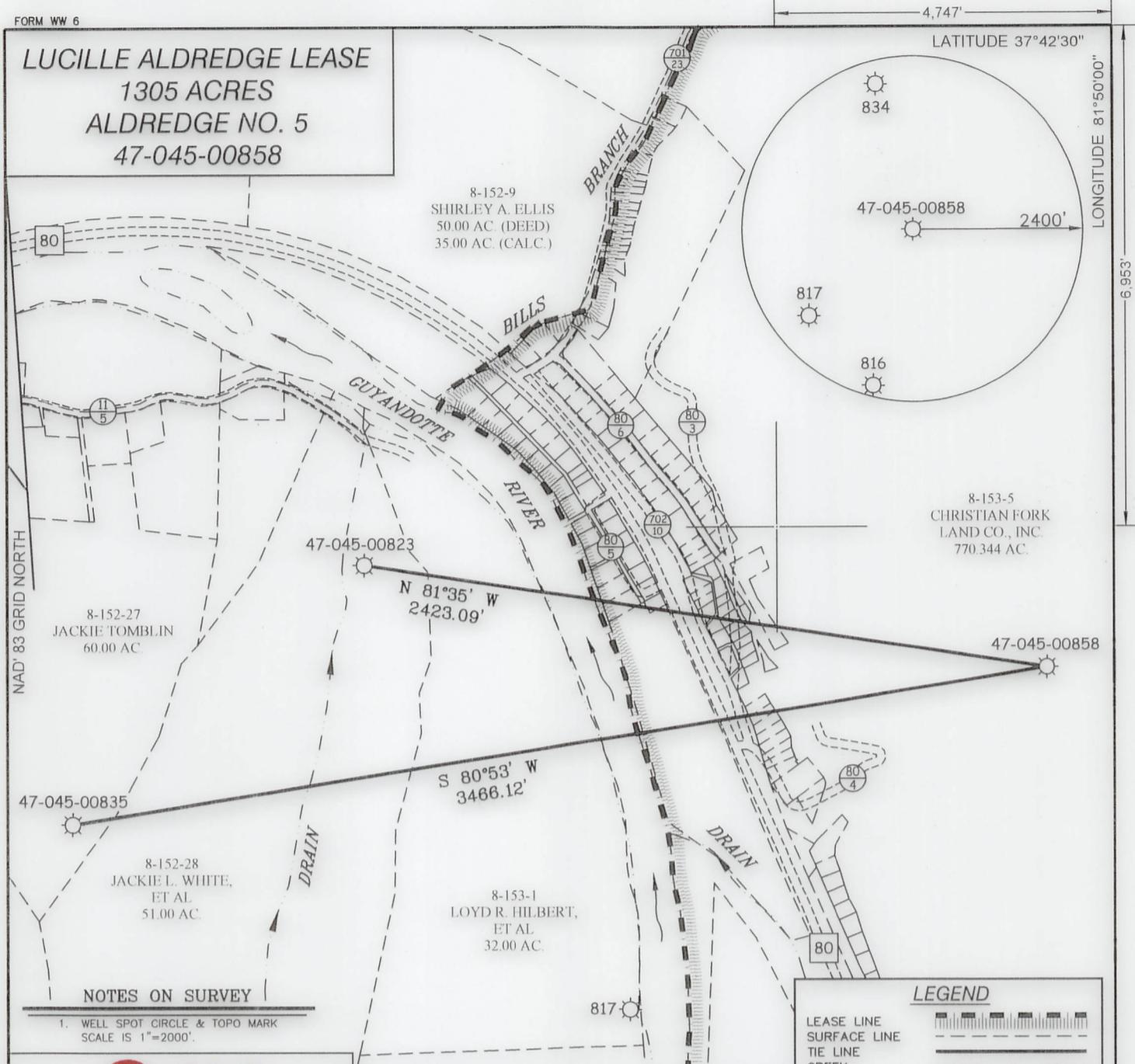
LOCATION:
 ELEVATION 973' WATERSHED GUYONDOTTE RIVER
 DISTRICT TRIADELPHIA COUNTY LOGAN QUADRANGLE MALLORY 7.5'
 SURFACE OWNER CHRISTIAN FORK LAND CO., INC. ACREAGE 770.344±
 ROYALTY OWNER LUCILLE ALDREDGE HEIRS OR ASSIGNS ACREAGE 1,305±

PROPOSED WORK: LEASE NO. 05/14/2021
 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 BEREA
 ESTIMATED DEPTH 3,213'

WELL OPERATOR SIGMA CORPORATION **DESIGNATED AGENT** TOM HANSEN
ADDRESS 8 CAPITOL ST., STE 500 CHARLESTON, WV 25301 **ADDRESS** 8 CAPITOL ST., STE 500 CHARLESTON, WV 25301

124888

LUCILLE ALDREDGE LEASE
1305 ACRES
ALDREDGE NO. 5
47-045-00858



NAD 83 GRID NORTH

LATITUDE 37°42'30"

LONGITUDE 81°50'00"

6,956'

NOTES ON SURVEY

1. WELL SPOT CIRCLE & TOPO MARK SCALE IS 1"=2000'.



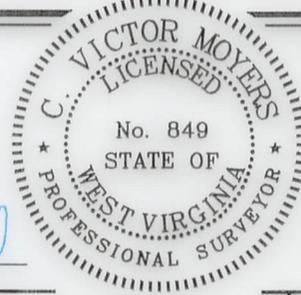
12 Vanhorn Drive | P.O. Box 150 | Glenville, WV 26351 | 304.462.5634
 1412 Kanawha Boulevard, East | Charleston, WV 25301 | 304.346.3952
 254 East Beckley Bypass | Beckley, WV 25801 | 304.295.5296
 slswv.com

(S.P.C. NORTH ZONE) (UTM(M) ZONE 17 NORTH)
 NAD'83 S.P.C.(FT) N. 252,103.1 E. 1,722,619.6
 NAD'83 GEO. LAT-(N) 37.689240 LONG-(W) 81.849737
 NAD'83 UTM (M) N. 4,170,676.1 E. 425,080.9

LEGEND

- LEASE LINE [Symbol]
- SURFACE LINE [Symbol]
- TIE LINE [Symbol]
- CREEK [Symbol]
- COUNTY ROUTE [Symbol]
- PROPOSED WELL [Symbol]
- EXISTING WELL [Symbol]
- PERMITTED WELL [Symbol]
- TAX MAP-PARCEL 00-00 [Symbol]

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.



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS.
 DATE OCTOBER 19, 20 20
 REVISED _____, 20 ____
 OPERATORS WELL NO. ALDREDGE NO. 5
 API WELL NO. 47 - 045 - 00858
 STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1 / 2500 FILE NO. 9039P0858.dwg
 HORIZONTAL & VERTICAL CONTROL DETERMINED BY DGPS (SUBMETER MAPPING GRADE TIE TO CORNS NETWORK) SCALE 1" = 500'

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

WELL TYPE:	OIL <input type="checkbox"/>	GAS <input checked="" type="checkbox"/>	INJECTION <input type="checkbox"/>	WASTE DISPOSAL <input type="checkbox"/>	IF "GAS" PRODUCTION <input checked="" type="checkbox"/>	STORAGE <input type="checkbox"/>	DEEP <input type="checkbox"/>	SHALLOW <input checked="" type="checkbox"/>
LOCATION:	ELEVATION <u>973'</u>	WATERSHED <u>GUYANDOTTE RIVER</u>	DISTRICT <u>TRIADELPHIA</u>	COUNTY <u>LOGAN</u>	QUADRANGLE <u>MALLORY 7.5'</u>			
SURFACE OWNER:	<u>CHRISTIAN FORK LAND CO., INC.</u>				ACREAGE <u>770.344±</u>			
ROYALTY OWNER:	<u>LUCILLE ALDREDGE HEIRS OR ASSIGNS</u>				ACREAGE <u>1,305±</u>			
PROPOSED WORK:	DRILL <input type="checkbox"/>	CONVERT <input type="checkbox"/>	DRILL DEEPER <input type="checkbox"/>	REDRILL <input type="checkbox"/>	FRACTURE OR STIMULATE <input type="checkbox"/>	PLUG OFF OLD FORMATION <input type="checkbox"/>	PERFORATE NEW FORMATION <input type="checkbox"/>	PLUG AND ABANDON <input checked="" type="checkbox"/>
PHYSICAL CHANGE IN WELL (SPECIFY):					TARGET FORMATION <u>BEREA</u>			
					ESTIMATED DEPTH <u>3,213'</u>			
WELL OPERATOR:	<u>SIGMA CORPORATION</u>				DESIGNATED AGENT:	<u>TOM HANSEN</u>		
ADDRESS:	<u>8 CAPITOL ST., STE 500 CHARLESTON, WV 25301</u>				ADDRESS:	<u>8 CAPITOL ST., STE 500 CHARLESTON, WV 25301</u>		

05/14/2021

COUNTY NAME PERMIT