



west virginia department of environmental protection

Office of Oil and Gas
601 57th Street SE
Charleston, WV 25304
(304) 926-0450
(304) 926-0452 fax

Earl Ray Tomblin, Governor
Randy C. Huffman, Cabinet Secretary
www.dep.wv.gov

May 29, 2015

WELL WORK PERMIT

Vertical Well

This permit, API Well Number: 47-9502267, issued to ALLIANCE PETROLEUM CORPORATION, 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 all 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 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.

In addition to the applicable requirements of this permit, and the statutes and rules governing oil and gas activity in WV, this permit may contain specific conditions which must be followed. Permit conditions are attached to this cover letter.

Per 35CSR-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) 926-0499 ext. 1654.

James Martin

Chief

Operator's Well No: HARRIS 4V SOUTH
Farm Name: CHRISTOPHER INVESTMENTS II
API Well Number: 47-9502267
Permit Type: Vertical Well
Date Issued: 05/29/2015

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.

950 2267

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Office of Oil and Gas

MAY 14 2015

WW - 2B
(Rev. 8/10)

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS
WV Department of Environmental Protection
WELL WORK PERMIT APPLICATION

1) Well Operator: Alliance Petroleum Corporation
Operator ID: 305762 County: Tyler District: Ellsworth Porters Falls Quadrangle

2) Operator's Well Number: Harris 4V South 3) Elevation: 1315

4) Well Type: (a) Oil _____ or Gas X
(b) If Gas: Production X / Underground Storage _____
Deep _____ / Shallow _____

Michael Hoff
5-13-2015

5) Proposed Target Formation(s): Speechly Proposed Target Depth: 3900'

6) Proposed Total Depth: 3950' Feet Formation at Proposed Total Depth: Speechly

7) Approximate fresh water strata depths: 48'

8) Approximate salt water depths: 1580'

9) Approximate coal seam depths: 610'

10) Approximate void depths, (coal, Karst, other): N/A

11) Does land contain coal seams tributary to active mine? No

12) Describe proposed well work and fracturing methods in detail (attach additional sheets if needed)

Drill and complete a conventional vertical well.

Slick water and foam fracture 2 zones (Speechly & Warren)

1500 bbls each zone

13) **CASING AND TUBING PROGRAM**

TYPE	SPECIFICATIONS			FOOTAGE INTERVALS		CEMENT
	Size	Grade	Weight per ft	For Drilling	Left in Well	Fill -up (Cu. Ft.)
Conductor	13"	H-40	36.0#/ft	32'		
Fresh Water	9-5/8"	H-40	26.0#/ft	300-400'	300-400'	CTS - 184 cu ft
Coal				<u>590'</u>	<u>590'</u>	<u>CTS</u>
★ Intermediate	7"	J-55	20.0#/ft	<u>590'</u>	1400'	CTS - 278 cu ft
Production	4-1/2"	J-55	10.5#/ft		3950'	158.0 cu ft
Tubing	1-1/2"	J-55	2.75#/ft		3900'	
Liners						

Packers: Kind: _____
Sizes: _____
Depths Set _____

05/29/2015

★ PLEASE NOTE OFFSET RECORD^{OR} WELL 9500105.

WW-2A
(Rev. 6-14)

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Office of Oil and Gas

MAY 14 2015

1.) Date: May 13, 2015
2.) Operator's Well Number Harris 4V South
State 47 County 095 Permit 02267
3.) API Well No.:

WV Department of
Environmental Protection
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:	5) (a) Coal Operator
(a) Name <u>Christopher Investments, Inc.</u>	Name <u>N/A</u>
Address <u>P.O. Box 5443</u>	Address _____
<u>Vienna, WV 26105</u>	_____
(b) Name _____	(b) Coal Owner(s) with Declaration
Address _____	Name <u>H3, LLC. (LeAnne Beorn)</u>
_____	Address <u>1700 Calais Trail</u>
_____	<u>Powhatan, VA 23139</u>
(c) Name _____	Name _____
Address _____	Address _____
_____	_____
6) Inspector <u>Michael Goff</u>	(c) Coal Lessee with Declaration
Address <u>P.O. Box 134</u>	Name <u>N/A</u>
<u>Pullman, WV 26421</u>	Address _____
Telephone <u>(304) 549-9823</u>	_____

TO THE PERSONS NAMED ABOVE TAKE NOTICE THAT:

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

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)
- 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 Alliance Petroleum Corporation
 By: Jeffrey Savqer
 Its: Designated Agent
 Address: 16 Fox Hill Terrace
Parkersburg, WV 26101
 Telephone: (304) 422-9922
 Email: jeff-savqer@alliancepetroleum.com

Subscribed and sworn before me this 13th day of May, 2015

Bobbie L. Lauer
My Commission Expires Feb 21, 2016

Notary Public
Bobbie L. Lauer, Notary Public
 In and For The State of Ohio
 My Commission Expires 2-21-2016

Oil and Gas Privacy Notice

9502267

7014 2120 0001 9122 1948

U.S. Postal Service™
CERTIFIED MAIL® RECEIPT
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For delivery information, visit our website at www.usps.com®.
VIENNA WV 26105
OFFICIAL USE

Postage	\$ 0.91	0952
Certified Fee	\$3.30	U7
Return Receipt Fee (Endorsement Required)	\$0.00	Postmark Here
Restricted Delivery Fee (Endorsement Required)	\$0.00	
Total Postage & Fees	\$ 4.21	05/13/2015

Sent To Christopher Investments INC
 Street & Apt. No.,
 or PO Box No. PO Box 5443
 City, State, ZIP+4 Vienna, WV 26105

PS Form 3800, July 2014 See Reverse for Instructions



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MAY 14 2015
WV Department of
Environmental Protection

05/29/2015

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For delivery information, visit our website at www.usps.com®.

POW HATAN VA 23139

OFFICIAL USE

7014 2120 0001 9122 1931

Postage	\$ 0.91	0952
Certified Fee	\$3.30	0 r
Return Receipt Fee (Endorsement Required)	\$0.00	Postmark Here
Restricted Delivery Fee (Endorsement Required)	\$0.00	
Total Postage & Fees	\$ 4.21	05/13/2015

Sent To H3 LLC

Street & Apt. No.
or PO Box No. 1700 Calais Trail

City, State, ZIP+4 Powhatan, VA 23139

PS Form 3800, July 2014 See Reverse for Instructions

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MAY 14 2015
WV Department of
Environmental Protection

05/29/2015

WW-2A1
(Rev. 1/11)

Operator's Well Number Harris 4V South

**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
H3, LLC, a West Virginia Limited Liability Co. etal	PETRO EDGE ENERGY, LLC.	12.5% - 19.0% RI	388/42
PETROEDGE ENERGY, LLC	Statoil USA Onshore Properties, Inc.	100% WI	408/66
PETROEDGE ENERGY, LLC	Statoil USA Onshore Properties, Inc.	100% WI	419/247
PETROEDGE ENERGY, LLC	Statoil USA Onshore Properties, Inc.	100% WI	419/261
PETROEDGE ENERGY, LLC	Statoil USA Onshore Properties, Inc.	100% WI	406/147
PETROEDGE ENERGY, LLC	Statoil USA Onshore Properties, Inc.	100% WI	436/1
David E. Boyer, an individual	Statoil USA Onshore Properties, Inc.	100% WI	476/792
Statoil USA Onshore Properties, Inc.	Alliance Petroleum Corporation	100% WI	Not Yet Recorded

483/790
RECORDED
5/15/2015

**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

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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:

Alliance Petroleum Corporation
Designated Agent *[Signature]*

McLaughlin, Jeffrey W

From: Patrick Joyce <Patrick_Joyce@alliancepetroleum.com>
Sent: Thursday, May 28, 2015 9:43 AM
To: McLaughlin, Jeffrey W
Cc: Wally; Eric Calvert; Dora Silvis
Subject: Recorded Assignments

Importance: High

Jeff,

The documents I previously sent you were recorded 5/15/2015:

HARRIS 4V SOUTH DB 483 / 790
KLEEH 2V SOUTH UNIT DB 483 / 781

Not sure if that helps, but I figured I would forward.

Thanks.

Patrick Joyce
Alliance Petroleum Corporation
Contracts and Special Projects
4150 Belden Village Avenue NW
Suite 410
Canton, OH 44718-2553
330-493-0440
330-493-3409 Fax



CONFIDENTIALITY NOTICE: This electronic communication (including attachments) is from a corporation and may contain confidential information intended only for the use of the named recipient. If you are not the intended recipient of this message, you are hereby notified that dissemination, distribution, or copying of this message is strictly prohibited. If you received this communication in error, please notify us immediately by return message and delete this communication from your system. Thank you

WW-2B1
(5-12)

Well No. Harris 4V South

West Virginia Department of Environmental Protection
Office of Oil and Gas

NOTICE TO SURFACE OWNERS

The well operator named below is preparing to file for a permit from the state to drill a new well. Before a well work permit can be filed with the Chief of the Office of Oil and Gas, the well operator is required to have given notice of the right to request water well or spring analytical testing. This notice shall be given to the owners or occupants of land which have a water well or spring being utilized for human consumption, domestic animals, or other general use and which is located within 1000 feet of the proposed well site.

With this form, the operator is giving you notice of your right to request analytical testing. The operator is required to sample and analyze the water wells or springs of all owners or occupants who request it. Therefore, if you wish to have your water well or spring tested, contact the operator named below.

All sampling shall be completed prior to drilling. Within thirty (30) days of the receipt of such sample analyses the operator shall submit the results to the Chief of the Office of Oil and Gas and to the owners or occupants who may have requested them.

Be advised, you have the right to sample and analyze any water supply at your own expense.

Listed below is the laboratory chosen by operator to perform analysis, and contactor chosen to collect sample.

Certified Laboratory Name Fairway Laboratories
Sampling Contractor Jericho Land Resources

Well Operator Alliance Petroleum Corporation
Address 4150 Belden Village Avenue, Suite 410
Canton, Ohio 44718
Telephone (330) 493-0440

FOR OPERATOR'S USE ONLY: Below, or on an attached page, list those persons which were given this notice. Place an asterisk beside the one(s) that contacted you and requested sampling and analyses. If there were no requests made, indicate by underling which one you have selected to sample and analyze. If there are no water wells or springs within 1000 feet of the proposed site, the Chief may require the operator to test wells up to 2000 feet from the proposed site.

SEE ATTACHED

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Environmental Protection

05/29/2015



WELL OPERATOR : Alliance Petroleum Corporation
WELL OPERATOR # : Harris 4V S

Notice To Surface Owner or Resident

The initial mapping review of the area surrounding the proposed well site revealed the below listed surface owner that was potentially utilizing groundwater (potable) for consumption or other purposes within 1000' radius of the proposed well site. The following Landowner will be notified of the opportunity to request a water sample should it be necessary. **Please note that the following information listed below could be subject to change upon further field inspection.*

Surface Owner or Resident Notified:

* Owner: Christopher Investments, Inc.
Address: P.O. Box 5443, Vienna, WV 26105
Comments: Tax Parcel # 02-16-31

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WV Department of
Environmental Protection

9502267

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Office of Oil and Gas
(2/15)

API Number 47 - 095 - _____
Operator's Well No. Harris 4V South

MAY 14 2015

WV Department of
Environmental Protection

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

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FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

MAY 14 2015

Operator Name Alliance Petroleum Corporation OP Code 305762
Watershed (HUC 10) Outlet Middle Island Creek Quadrangle Porters Falls

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: Drill Cuttings - Soap - Brine

Will a synthetic liner be used in the pit? Yes No If so, what ml.? 60

Proposed Disposal Method For Treated Pit Wastes:

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

MAG
5-13-2015

Will closed loop system be used? If so, describe: _____

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

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

Additives to be used in drilling medium? Soap - KCL - Clay Stabilizer

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

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

-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 August 1, 2005, 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 *Jeffrey Sayger*
Company Official (Typed Name) Jeffrey Sayger
Company Official Title Designated Agent

Subscribed and sworn before me this 13th day of May
Bobbie L. Lauer



BOBBIE L. LAUER, Notary Public
In and For The State of Ohio
My Commission Expires 2-21-2016

My commission expires Feb. 21, 2016

05/29/2015

Alliance Petroleum Corporation

Proposed Revegetation Treatment: Acres Disturbed 2.0 PJ Prevegetation pH 6.5 PJ

Lime 3 Tons/acre or to correct to pH 6.5

Fertilizer type 10-20-20

Fertilizer amount 667 lbs/acre

Mulch 2 (Hay) Tons/acre

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MAY 14 2015
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Environmental Protection

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:
Drawing(s) of road, location, pit and proposed area for land application (unless engineered plans including this info have been provided)

Photocopied section of involved 7.5' topographic sheet.

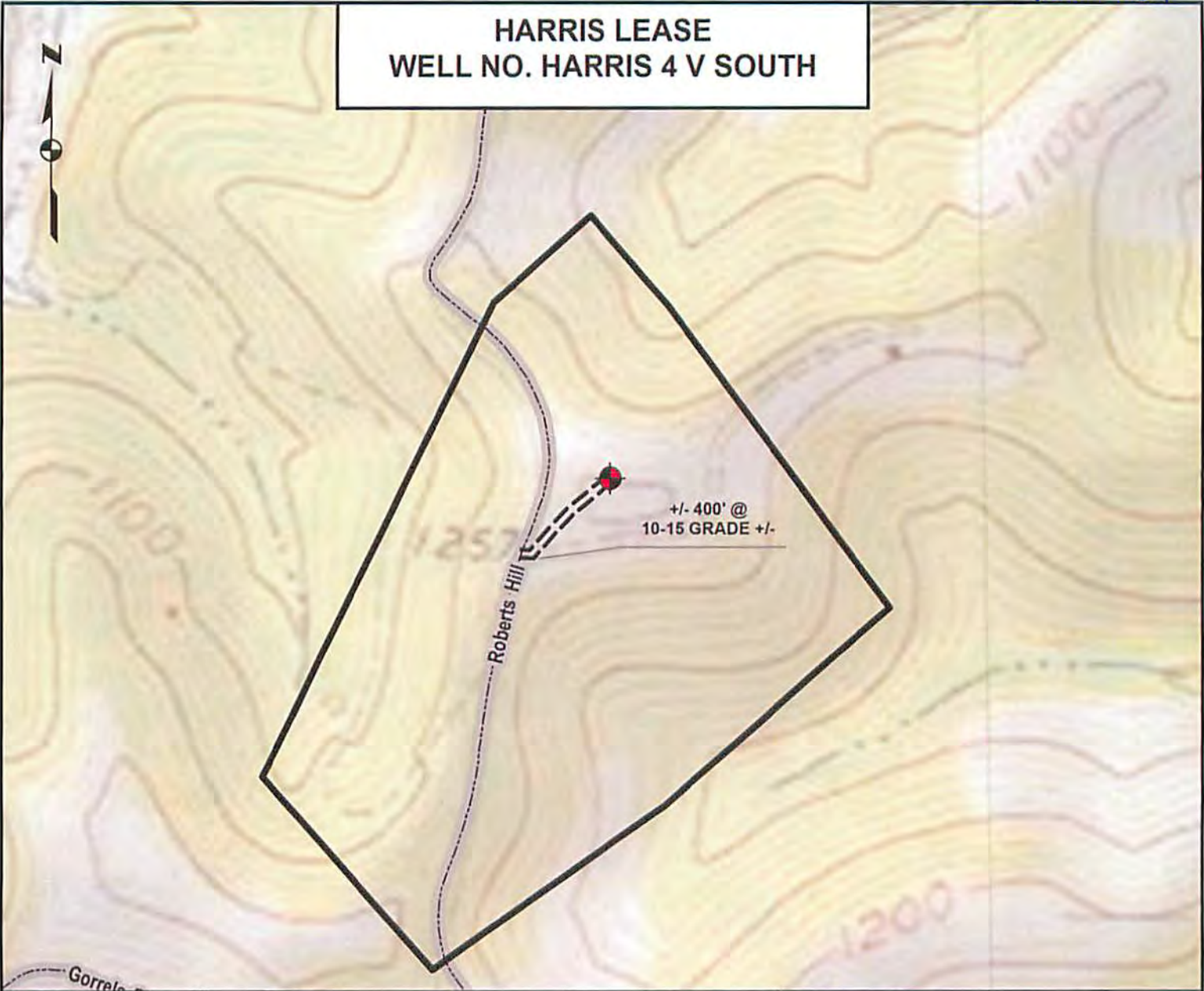
Plan Approved by: Michael Goff

Comments: Preseed & mulch any disturbed areas per WVDEA regulations. Maintain & Upgrade E-n-S as necessary.

Title: Oil & Inspector Date: 5-13-2015

Field Reviewed? () Yes () No

HARRIS LEASE WELL NO. HARRIS 4 V SOUTH

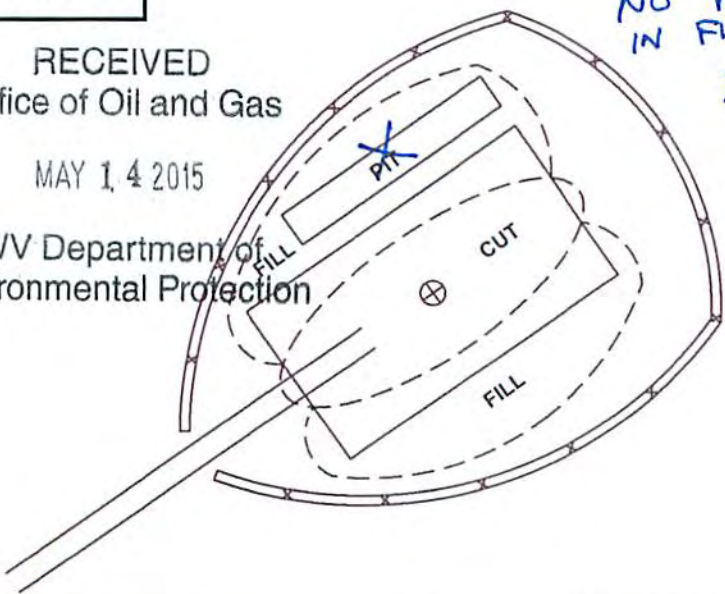


DETAIL SKETCH

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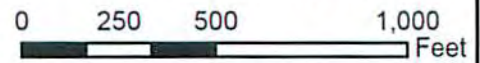
MAY 14 2015

WV Department of
Environmental Protection



NO PIT
IN FILL.
gmm

1 inch = 500 feet



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 MAUNUAL. FIELD CONDITIONS (ROCK OUTCROPS AND BEDROCK) MAY PROHIBIT INLET TRAPS BEING INSTALLED. WHEN THESE CONDITIONS EXHIST ADDITIONAL ERROSION 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

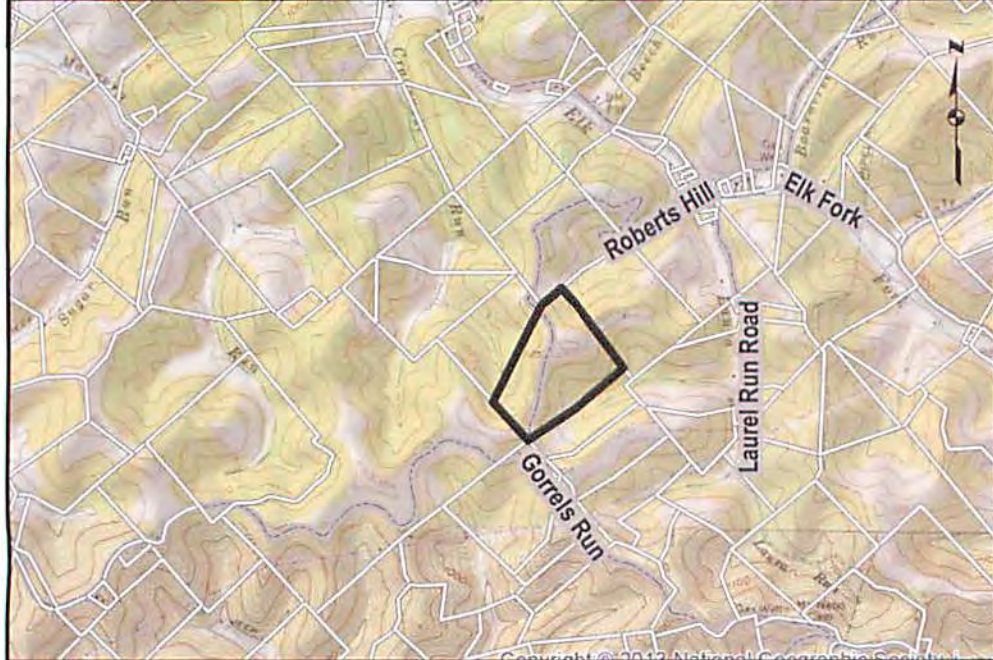
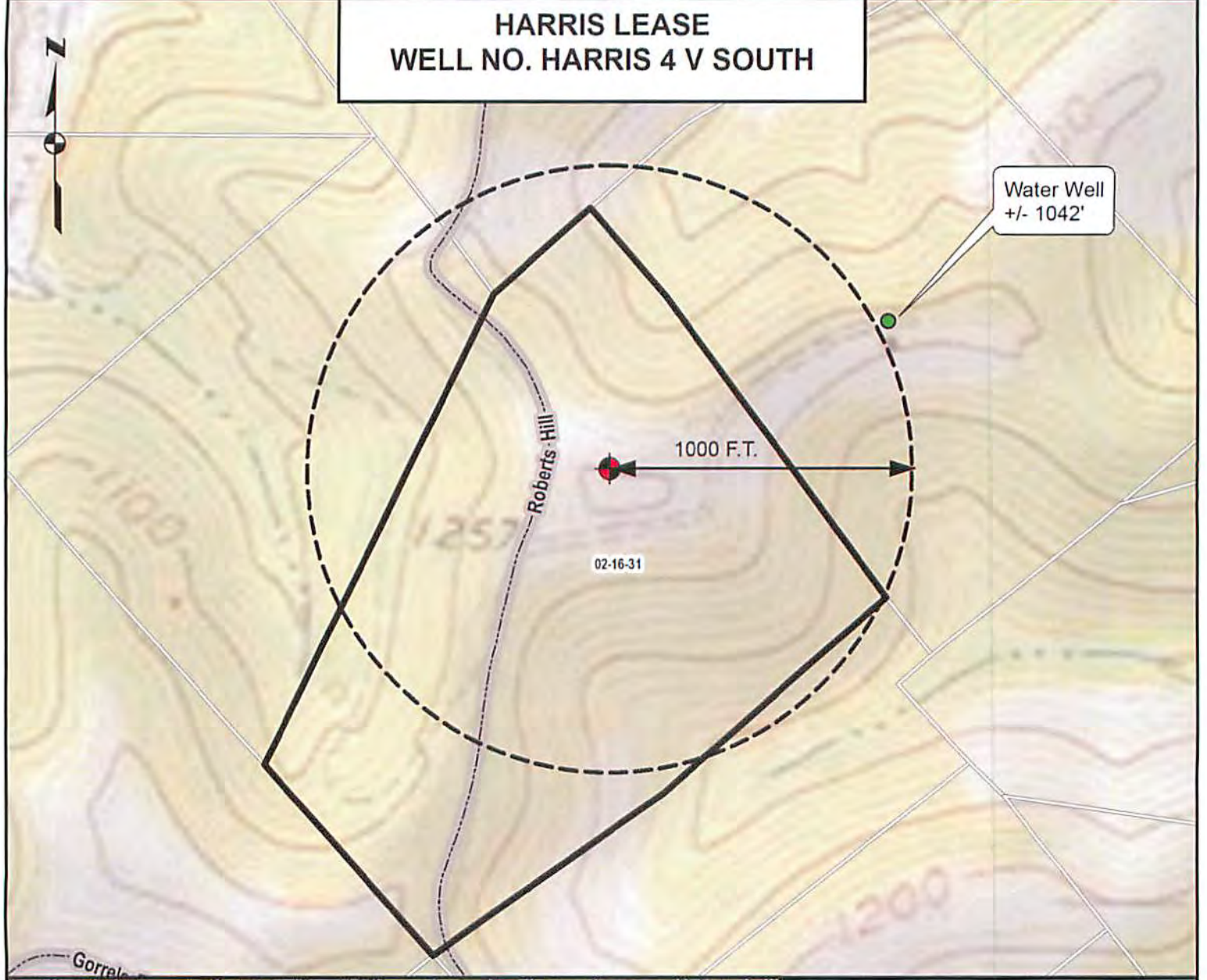
CUT & STACK ALL MARKETABLE TIMBER.

STACKED BRUSH MAY BE USED FOR SEDIMENT CONTROL.

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

NOT TO SCALE

HARRIS LEASE WELL NO. HARRIS 4 V SOUTH



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.

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TEMPORARY SEED & MULCH ARE TO BE APPLIED PRIOR TO 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)

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05/29/2015

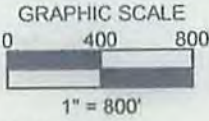
2,476'

LATITUDE 39°31'00"

LONGITUDE 80°47'30"

LEGEND

- PROPERTY CORNER (STONE)
- PROPERTY CORNER (IRON PIPE OR PIN)
- WELL NO. HARRIS 4VS1A (PROPOSED)
- EXISTING OIL & GAS WELL
- EXISTING WATER WELL
- LEASE LINE
- SURFACE LINE



PREPARED BY:
 BLAINE SURVEYING, PLLC
 9188 REDMOND RIDGE ROAD
 GALLIPOLIS FERRY, WV 25515



NOTES ON SURVEY

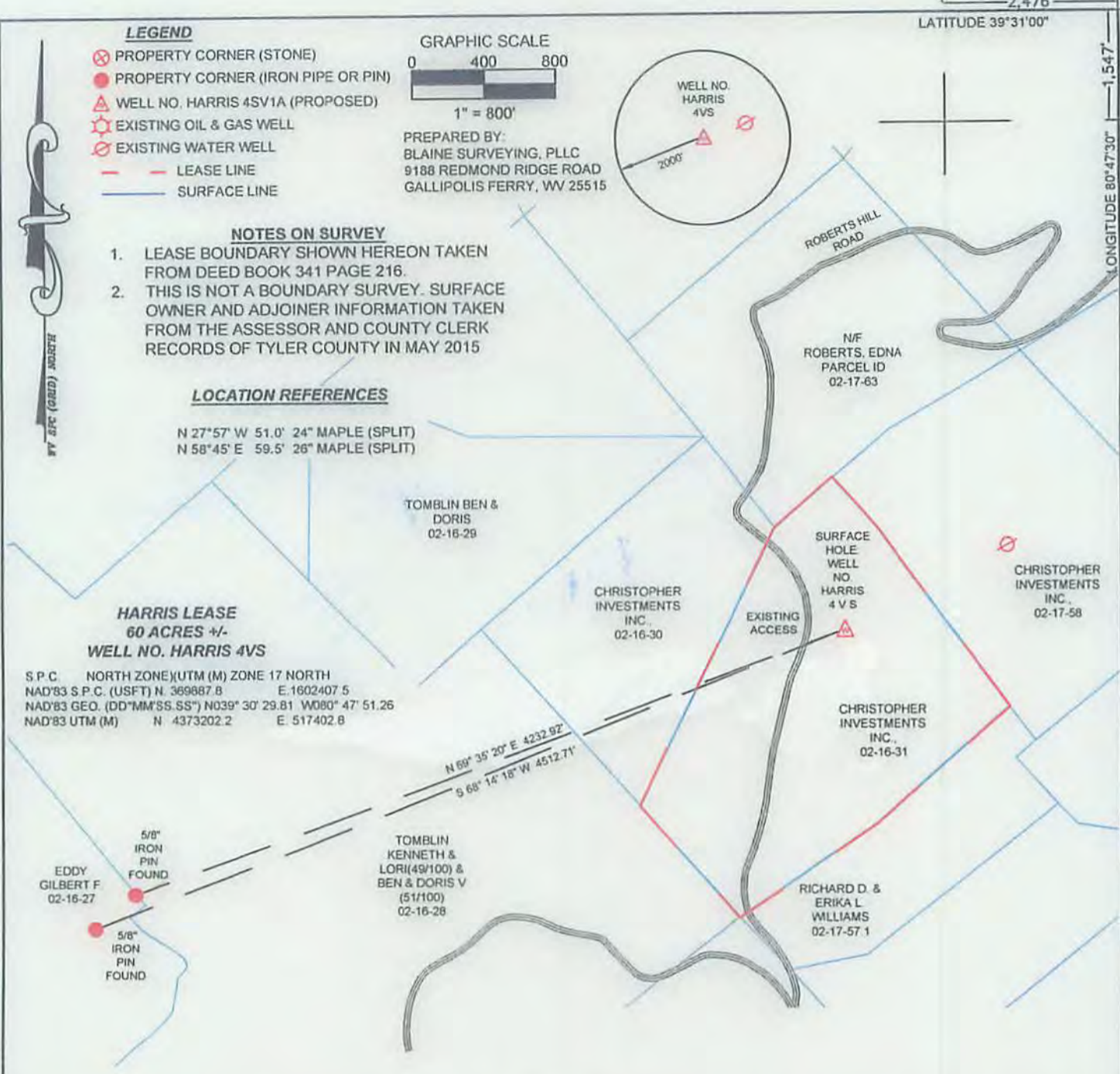
1. LEASE BOUNDARY SHOWN HEREON TAKEN FROM DEED BOOK 341 PAGE 216.
2. THIS IS NOT A BOUNDARY SURVEY. SURFACE OWNER AND ADJOINER INFORMATION TAKEN FROM THE ASSESSOR AND COUNTY CLERK RECORDS OF TYLER COUNTY IN MAY 2015

LOCATION REFERENCES

N 27°57' W 51.0' 24" MAPLE (SPLIT)
 N 58°45' E 59.5' 26" MAPLE (SPLIT)

**HARRIS LEASE
 60 ACRES +/-
 WELL NO. HARRIS 4VS**

S.P.C. NORTH ZONE(UTM (M) ZONE 17 NORTH
 NAD'83 S.P.C. (USFT) N. 369887.8 E.1602407.5
 NAD'83 GEO. (DD"MM'SS.SS") N039° 30' 29.81 W080° 47' 51.26
 NAD'83 UTM (M) N 4373202.2 E 517402.8



MINIMUM DEGREE OF ACCURACY: SUB-METER
 FILE #: HARRIS 4 VS
 SCALE: 1" = 800'


HORIZONTAL AND VERTICAL CONTROL DETERMINED BY:
DGPS (MAPPING GRADE TIE TO CORS NETWORK)



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 DESCRIBED BY THE DEPARTMENT OF ENVIRONMENTAL PROTECTION

Signed: Jonathan Blaine
 L.L.S.: 2220

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



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS
 DATE: MARCH 31, 2015
 REVISED: 2015
 OPERATORS WELL NO. HARRIS 4VS

API WELL NO. 47 095 02267
 STATE COUNTY PERMIT

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

LOCATION:
 ELEVATION: 1,315' WATERSHED: OUTLET MIDDLE ISLAND CREEK
 DISTRICT: ELLSWORTH COUNTY: TYLER QUADRANGLE: PORTERS FALLS 7.5'

SURFACE OWNER CHRISTOPHER INVESTMENTS INC. ACREAGE: 60 +/-
 ROYALTY OWNER H3, LLC - A WEST VIRGINIA LIMITED LIABILITY CORPORATION ACREAGE: 60 +/-

PROPOSED WORK: LEASE NO. 05/29/2015
 DRILL X CONVERT ___ DRILL DEEPER ___ REDRILL ___ FRACTURE OR STIMULATE X PLUG OFF OLD ___
 FORMATION ___ PERFORATE NEW FORMATION ___ PLUG AND ABANDON ___ CLEAN OUT AND REPLUG ___ OTHER ___
 PHYSICAL CHANGE IN WELL (SPECIFY) ___ TARGET FORMATION ___ SPEECHLY ___
 ESTIMATED DEPTH: TVD 3950'

WELL OPERATOR ALLIANCE PETROLEUM CORPORATION DESIGNATED AGENT JEFFREY SAYGER
 ADDRESS 4150 BELDEN VILLAGE AVE NW SUITE 410 ADDRESS 16 FOXHILL TERRACE
CANTON, OH 44718-2553 PARKERSBURG WV 26101

OFFSET
* WELL 9500105

9502267

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION
WELL RECORD

Elev 930'

mit No. = 716-105

Oil or Gas Well (Kind)

Company: Roberts & Roberts
 Address: Wva
 Farm: L.S. [unclear] Acres
 Location (waters): the fork creek
 Well No.: 1 Elev: 930
 District: Putnam County: Putnam
 The surface of tract is owned in fee by: L.S. [unclear]
 Address: Delaware
 Mineral rights are owned by: R.D. Roberts
 Address: [unclear]
 Drilling commenced: Aug 14-1939
 Drilling completed: Sept 18-1939
 Date shot: _____ Depth of shot: _____
 Open Flow /10ths Water in: _____ Inch
 /10ths Merc. in: _____ Inch
 Volume: _____ Cu. Ft.
 Rock Pressure: _____ lbs. _____ hrs.
 Oil: one bbls., 1st 24 hrs.
 Fresh water: _____ feet
 Salt water: 1.08 lbs. salt in 24 hrs feet

Casing and Tubing	Used in Drilling	Left in Well	Packers
Size			
16. Conductor		12 ft	Kind of Packer
18.	204		Size of
10.	1166		Depth set
8 1/2.	1876		Perf. top
5 3/16.			Perf. bottom
3.	2010		Perf. top
2.			Perf. bottom

Liners Used: _____

CASING CEMENTED: No SIZE: _____ No. Ft: _____ Date: _____

COAL WAS ENCOUNTERED AT: 167 FEET. 3 INCHES
536 FEET. 1 INCHES
646 FEET. 1 INCHES

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth Found	Remarks
Ground	Yellow		0	12			This Nations Coal was mixed with slats
Shells	"		12	84			
Coal			90	167			The Reg. Coal was only a Blossom & drilled it my self
Shells			167	170			
Hard			170	260			May have been 6 inch & gone it a foot or
Mapleton			350	630			
Coal			536	646			The Record, we drilled this well right about
Shells			646	647			
Ground			647	680			Midway between 2 wells that were plugged
Shells			680	720			
Ground			720	730			25 years ago by the South Penn. oil Co. one on this farm
Shells			730	752			
Hard			752	762			and one on the [unclear] farm. The casing is
Shells			762	825			
Hard			825	850			all in the well as shown above
Red Rock			850	850			
Black shale			850	900			R.D. Roberts who son of L.S. Roberts says the coal.
Sand			900	910			
Shale			910	1040			Eagan & Bonaley.
Little Durham			1040	1065			
Shale			1065	1165			
Shale			1165	1200			
Big Durham			1200	1210			
Silver shale			1210	1295			
Shale			1295	1350			
Shale			1350	14			

05/29/2015

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth Found	Remarks
Black shale			1435	1460			
Light grey sand			1460	1480			
Black shale			1480	1570			
Sand & Hard salt			1575	1661			
Water			1540	5 1/2 ft	1 1/2 in.		
Water			1630	1661			
Black slate			1461	1671			
Sand shale			1671	1745			
Slate			1745	1780			
Medium sand			1780	1805			
Light shale			1805	1828			
Thin hard			1828	1890	1876'	5 3/16"	
Super sand			1890	1988			
oil			1970			1828	
oil			1988			931	
oil			2010			-877	

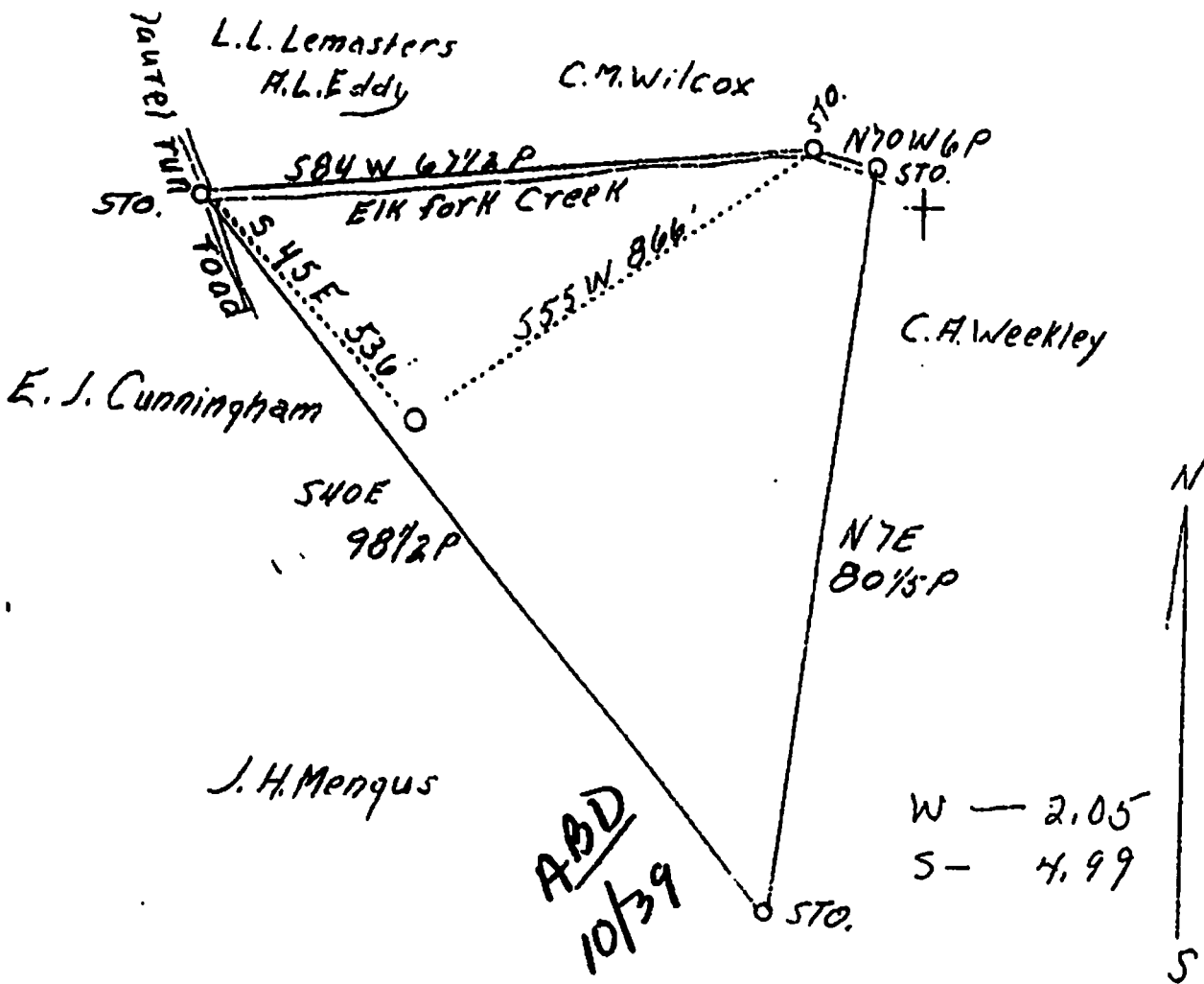
05/29/2015

Date Oct 17 1939
 APPROVED Robert M Roberts Owner
 By R. S. Roberts (Title)

* OFFSET
WELL C4500105

LATITUDE 39° 35'

LONGITUDE 80° 45'



New location

Sheet No 2

Company	Roberts & Roberts
Address	Wheeling, W. Va.
Farm	L. L. Lemasters
Tract	1
Acres	20
Well (Farm) No.	1
Elevation (SL)	930.5
Quadrangle	New Martinsville SE.
County	Tyler
District	Ells'
Engineer	J. S. Haught
Eng. Reg. No.	County Surveyor
Date	June 28, 1939
Scale	1" = 20 rods

STATE OF WEST VIRGINIA
 Department of Mines
 OIL & GAS DIVISION
 Charleston

WELL LOCATION MAP

File No. TVI-105P

05/29/2015

x Denotes location of well on U. S. 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.

