



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

October 22, 2013

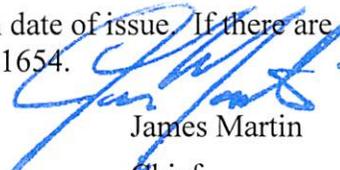
WELL WORK PLUGGING PERMIT

Plugging

This permit, API Well Number: 47-9500693, issued to SANCHO OIL & GAS 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.

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. The above named operator will also file, as required in WV Code 22-6-23, an affidavit on form WR-38 by two experienced persons in the operator's employment and the Oil and Gas inspector that the work authorized under this permit was performed and a description given. Failure to abide by all statutory and regulatory provisions governing all duties and operations here under may result in suspensions or revocation of this permit and in addition may result in civil and/or criminal penalties being imposed upon the operator.

This permit will expire in two (2) years from date of issue. If there are any questions, please free to contact me at (304) 926-0499 ext. 1654.



James Martin
Chief

Operator's Well No: MOORE #2
Farm Name: MOORE, THOMAS ,. ET AL
API Well Number: 47-9500693
Permit Type: Plugging
Date Issued: 10/22/2013

Promoting a healthy environment.

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.

1) Date Aug. 28, 2013
2) Operator's
Well No. B. Moore #2
3) API Well No. 47-095-0693

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 ___ or Underground storage ___) Deep ___ / Shallow X

5) Location: Elevation 873 1/4 Watershed South Fork on Sugar Creek
District meade 04 County Tyler a5 Quadrangle Middlebourne 470

6) Well Operator Sancho Oil & Gas 7) Designated Agent Loren Bagley
Address P.O. Box 179 Address P.O. Box 179
St. Marys, WV 26170 St. Marys, WV 26170

8) Oil and Gas Inspector to be notified Name Joe Taylor
Address _____
9) Plugging Contractor Name Patchwork Oil & Gas
Address 8165 Elizabeth Pike
Elizabeth, WV 26143

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

Schematic attached

GEL IS FRESH WATER WITH AT LEAST 6% BENTONITE.

IF BRIDGE PLUGS ARE ENCOUNTERED AT 2000' AND 2439', DRILL THEM OUT.
GEL FROM 2974' TO 2950'. COVER 26 PERFORATIONS FROM 2950' - 2660'
WITH CLASS A CEMENT PLUG WITH NO MORE THAN 3% CaCl₂ AND NO
OTHER ADDITIVES. THIS IS PLUG 1. GEL HOLE FROM 2660' TO 2384'. SET PLUG 2
FROM 2384' TO 1680' COVERING PERFORATIONS. GEL HOLE FROM 1680' TO 750'
AND CUT 4 1/2" CASING @ 700'. SET PLUG 3 FROM 750' - 650' ACROSS CASING CUT
REMOVE 700' OF 4 1/2" CASING. GEL HOLE FROM 650' TO 100'.
SET PLUG 4 FROM 100' TO SURFACE. SET MONUMENT.

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PLUG 3 WILL SERVE AS SALT WATER PLUG.

OCT 03 2013

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

Work order approved by inspector [Signature] Date 9-30-13

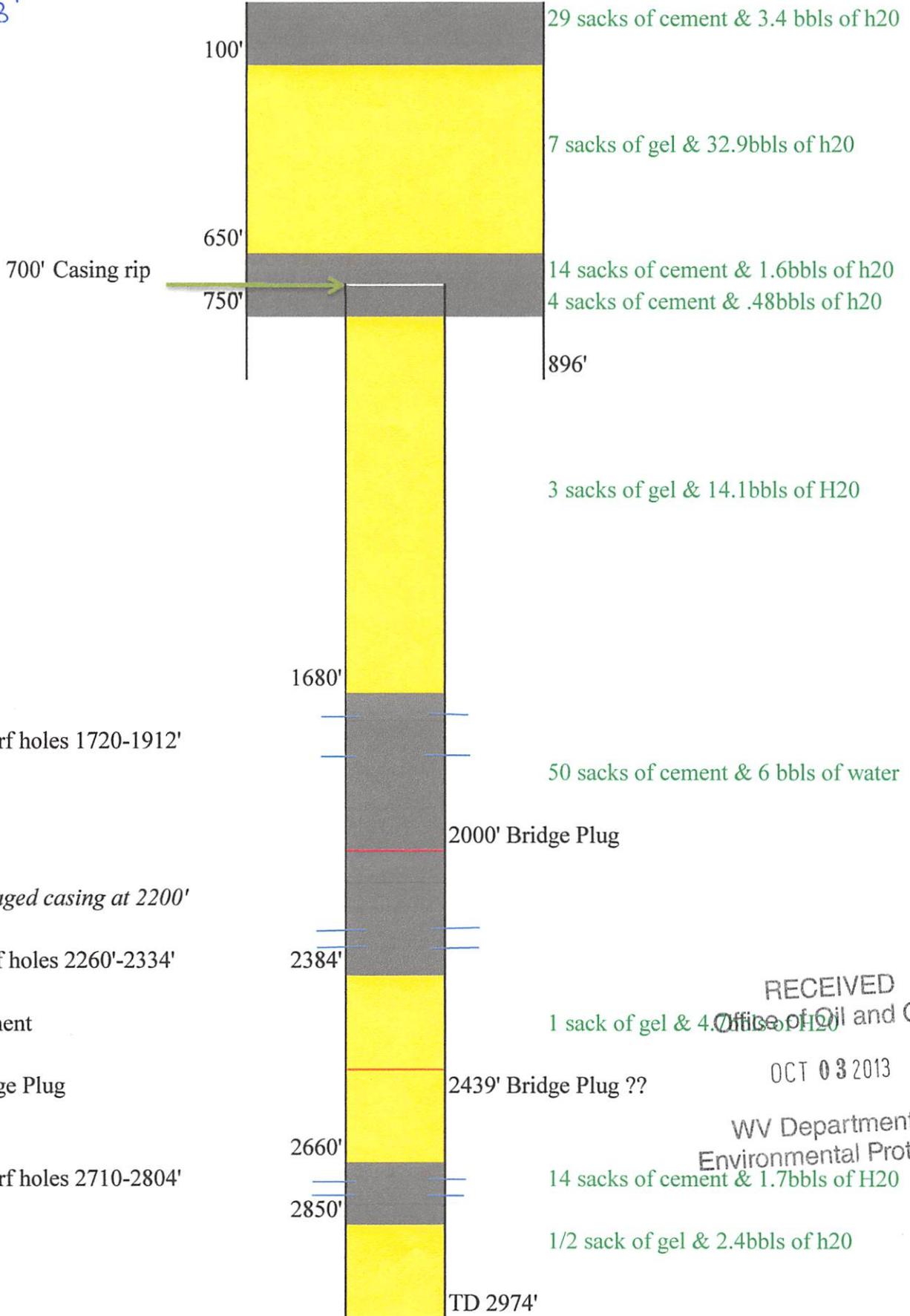
8 5/8 Casing
4 1/2 Tubing

B. Moore #2
API: 47-095-0693

Cement Gel is mixed to state standards
111 sacks of cement 12.5 sacks of gel

Elev. 873'

Surface



JP

Damaged casing at 2200'

- : Cement
- : Gel
- : Bridge Plug

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STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

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FEB 22 1960

Oil and Gas Division

WELL RECORD

OIL & GAS DIVISION
DEPT. OF MINES
Rotary Oil _____
Cable _____ Gas _____
Recycling _____ Comb.
Water Flood _____ Storage _____
Disposal _____ (Kind)

Quadrangle Middlebourne
Permit No. 47-095-0693

Company C.W. Riggs, INC.
Address St. Marks, W. Va.
Farm Betty Moore Acres 263
Location (waters) Sugar Creek
Well No. 2 Elev. 873.25'
District Meade County Tyler
The surface of tract is owned in fee by Betty Moore
Address Middlebourne W Va
Mineral rights are owned by Betty Moore
Address same
Drilling Commenced 8-12-79
Drilling Completed 8-17-79
Initial open flow _____ cu. ft. _____ bbls
Final production 45,000 cu. ft. per day _____ bbls.
Well open _____ hrs. before test _____ RP.

Casing and Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft. (Skts.)
Size 20-16			455 SKS
Cond. 13(10)	250	250	
9 5/8			
8 5/8	896'	896'	
7			
5 1/2			
4 1/2		2974'	
3			
2			
Lucas Used			

Well treatment details:

Attach copy of cementing record.

Perforations 2710' - 2804'
Fracture Treatment 1500 BBL H₂O, 100,000# SAND, 115,000 SCE N₂

Coal was encountered at N/A Feet _____ Inches _____
Fresh water N/A Feet _____ Salt Water N/A Feet _____
Producing Sand GORDON, GORDON STRAY Depth 2676-2810

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	Remarks
COW RUN			995'	1249'		* TOP LOG
1st SALT SAND			1357'	1409'		
2nd SALT SAND			1470'	1498'		
3rd SALT SAND			1549'	1580'		
Maxon			1658'	1685'		
Big Lime			1705'	1767'		
Keener			1768'	1791'		
Injun			1812'	1950'		
Spinn			1952'	1961'		
Welch Stray			2129'	2153'		
Berea			2204'	2214'		
50 FOOT			2409'	2459'		
30 FOOT			2471'	2498'		

(over)

* Indicates Electric Log tops in the remarks section.

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Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	Remarks
GORDON STRAY			2676'	2712'	GAS	
GORDON			2759'	2810'	GAS	
4th SAND			2851'	2866'		

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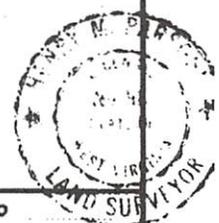
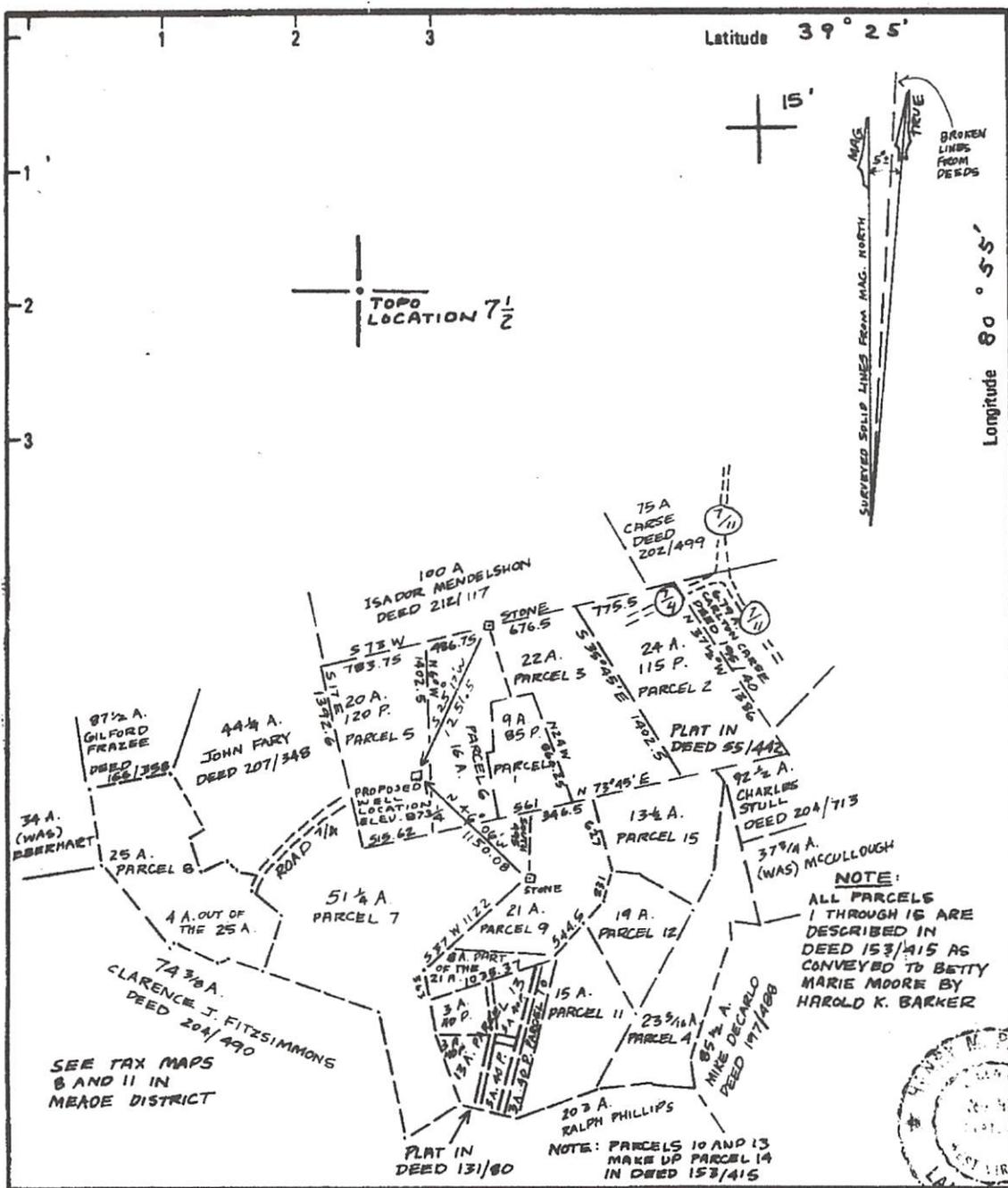
WV Department of
Environmental Protection

Date Feb 13, 2013

APPROVED C.W. Ryznar, Inc. Owner

By John Schmidt

9500693P
 CK#
 5748
 \$300.=
 3



Minimum Error of Closure METHOD USED SHOULD PRODUCE 1 IN 2500
 Source of Elevation **818** AT WICK ROAD AND SOUTH FORK ROAD INTERSECTION
 EAST OF THE VILLAGE OF WICK SHOWN ON THE MIDDLEBOURNE TOPO MAP
 "1", 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, *Henry M. Parsons*

New Location
 Drill Deeper
 Abandonment

Company C.W. RIGGS, INC.
 Address BOX 358, ST. MARYS, W.VA.
 Farm BETTY MARIE MOORE (PAR 5th)
 Tract _____ Acres 2.63 Lease No. _____
 Well (Farm) No. MOORE #2 Serial No. _____
 Elevation (Spirit Level) 873 1/4
 Quadrange MIDDLEBOURNE, WEST UNION 15'
 County TYLER District MEADE
 SURVEYOR HENRY M. PARSONS
 SURVEYOR'S 98
 Engineer's Registration No. 98
 File No. 79-5358 Drawing No. 79-5358
 Date MAY 21, 1979 Scale 1" = 1000'

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

WELL LOCATION MAP
 FILE NO. 47-095-0693

+ 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.

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 WV Department of Environmental Protection

9500693P

WW-4A
Revised 6-07

1) Date: AUG 28 2013
2) Operator's Well Number
R MOORE #2
3) API Well No.: 47 - 095 - 0693

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>THOMAS W. MOORE ET AL</u>	Name <u>✓</u>
Address <u>RACHELLE ANNE MOORE</u>	Address <u>✓</u>
<u>5605 SIX MILE RUN RD PARKESBURY WV 26104</u>	
(b) Name <u>CAROL SAE MOORE</u>	(b) Coal Owner(s) with Declaration
Address <u>441 TWIN HICKORY RD</u>	Name _____
<u>MIDDLE BOURNE WV 26149</u>	Address _____
(c) Name <u>Peggy Lee Shields</u>	Name <u>✓</u>
Address <u>411 TWIN HICKORY RD</u>	Address _____
<u>MIDDLE BOURNE WV 26149</u>	
6) Inspector	(c) Coal Lessee with Declaration
Address <u>See Page</u>	Name _____
Telephone <u>304-380-6246</u>	Address _____

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

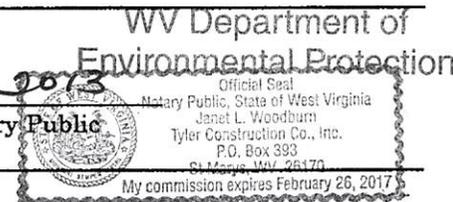
- (1) The application to Plug and Abandon a Well on Form WW-4B, which sets out the parties involved in the work and describes the well its and the plugging work order; and
- (2) The plat (surveyor's map) showing the well location on Form WW-6.

The reason you received these documents is that you have rights regarding the application which are summarized in the instructions on the reverses 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 SARCO OIL & GAS RECEIVED
 By: Janet E. Woodburn Office of Oil and Gas
 Its: President
 Address P.O. Box 179
ST. MARYS WV 26170 OCT 03 2013
 Telephone 304-684-2170

Subscribed and sworn before me this 26th day of September 2013
Janet Woodburn Notary Public
 My Commission Expires 2/26/2017



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.

SURFACE OWNER WAIVER

Operator's Well
Number

B. Moore #2

INSTRUCTIONS TO SURFACE OWNERS NAMED ON PAGE WW4-A

The well operator named on page WW-4A is applying for a permit from the State to plug and abandon a well. (Note: If the surface tract is owned by more than three persons, then these materials were served on you because your name appeared on the Sheriff's tax ticket on the land or because you actually occupy the surface tract. In either case, you may be the only owner who will actually receive these materials.) See Chapter 22 of the West Virginia Code. Well work permits are valid for 24 months. If you do not own any interest in the surface tract, please forward these materials to the true owner immediately if you know who it is. Also, please notify the well operator and the Office of Oil and Gas.

**NOTE: YOU ARE NOT REQUIRED TO FILE ANY COMMENT.
WHERE TO FILE COMMENTS AND OBTAIN ADDITIONAL INFORMATION:**

Chief, Office of Oil and Gas
Department of Environmental Protection
601 57th St. SE
Charleston, WV 25304
(304) 926-0450

Time Limits and methods for filing comments. The law requires these materials to be served on or before the date the operator files his Application. You have **FIVE (5) DAYS** after the filing date to file your comments. Comments must be filed in person or received in the mail by the Chief's office by the time stated above. You may call the Chief's office to be sure of the date. Check with your postmaster to ensure adequate delivery time or to arrange special expedited handling. If you have been contacted by the well operator and you have signed a "voluntary statement of no objection" to the planned work described in these materials, then the permit may be issued at any time.

Comments must be in writing. Your comments must include your name, address and telephone number, the well operator's name and well number and the approximate location of the proposed well site including district and county from the application. You may add other documents, such as sketches, maps or photographs to support your comments.

The Chief has the power to deny or condition a well work permit based on comments on the following grounds:

- 1) The proposed well work will constitute a hazard to the safety of persons.
- 2) The soil erosion and sediment control plan is not adequate or effective;
- 3) Damage would occur to publicly owned lands or resources;
- 4) The proposed well work fails to protect fresh water sources or supplies;
- 5) The applicant has committed a substantial violation of a previous permit or a substantial violation of one or more of the rules promulgated under Chapter 22, and has failed to abate or seek review of the violation..."

If you want a copy of the permit as it is issued or a copy of the order denying the permit, you should request a copy from the Chief.

VOLUNTARY STATEMENT OF NO OBJECTION

I hereby state that I have read the instructions to surface owners and that I have received copies of a Notice and Application For A Permit To Plug And Abandon on Forms WW-4A and WW-4B, and a survey plat.

I further state that I have no objection to the planned work described in these materials, and I have no objection to a permit being issued on those materials.

FOR EXECUTION BY A NATURAL PERSON
ETC.

FOR EXECUTION BY A CORPORATION,

Thomas W. Moore
Signature
Rashelle A. Moore
Keggy Lee Shields
Candice Moore

Date 9/23/13

Name Sardco Oil & Gas
By James E. Boyley
Its President Date 9/23/13
Signature Date

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Office of Oil and Gas
OCT 05 2013
WV Department of
Environmental Protection

WW-4B

API No. 47-095-0693
Farm Name B. Moore
Well No. #2

**INSTRUCTIONS TO COAL OPERATORS
OWNERS AND LESSEE**

The well operator named on the obverse side of WW-4 (B) is about to abandon the well described in the enclosed materials and will commence the work of plugging and abandoning said well on the date the inspector is notified. Which date shall not be less than five days after the day on which this notice and application so mailed is received, or in due course should be received by the Department of Environmental Protection Office of Oil & Gas.

This notice and application is given to you in order that your respective representatives may be present at the plugging and filling of said well. You are further notified that whether you are represented or not the operator will proceed to plug and fill said well in the manner required by Section 24, Article 6, Chapter 22 of the Code and given in detail on obverse side of this application.

NOTE: If you wish this well to be plugged according to 22-6-24(d) then as per Regulation 35CSR4-13.9 you must complete and return to this office on form OB-16 "Request by Coal Operator, Owner, or Lessee for plugging" prior to the issuance of this plugging permit.

WAIVER

The undersigned coal operator ____/ owner ____/ lessee ____/ of the coal under this well location has examined this proposed plugging work order. The undersigned has no objection to the work proposed to be done at this location, provided, the well operator has complied with all applicable requirements of the West Virginia Code and the governing regulations.

Date: 9/20/13

Sancho Oil & Gas
By: [Signature]
Its President

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OCT 03 2013
WV Department of
Environmental Protection

950693P

WW-9
Rev. 5/08

Page 1 of _____
API Number 47 - 095 - 0693
Operator's Well No. B.moore #2

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

CONSTRUCTION AND RECLAMATION PLAN AND SITE REGISTRATION APPLICATION FORM
GENERAL PERMIT FOR OIL AND GAS PIT WASTE DISCHARGE

Operator Name Sancho Oil + Gas Corp. OP Code 77

Watershed South Fork of Sugar Creek Quadrangle Middlebourne, West Union 15'

Elevation 873 1/4 County Tyler District meade

Description of anticipated Pit Waste: Cement Water & Water

Will a synthetic liner be used in the pit? YES . 20 MIL.

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 _____)

Proposed Work For Which Pit Will Be Used:

- Drilling
- Workover
- Other (Explain _____)
- Swabbing
- Plugging

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 Loren E Bagley

Company Official (Typed Name) LOREN E BAGLEY

Company Official Title president

Subscribed and sworn before me this 26th day of September, 20 13

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Office of Oil and Gas

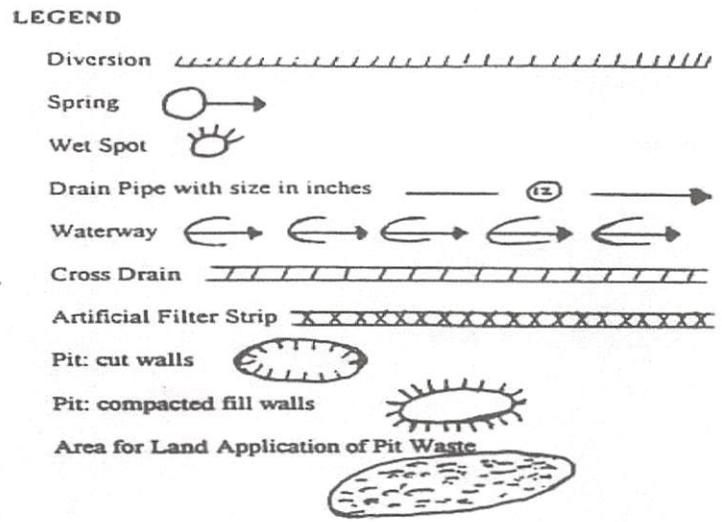
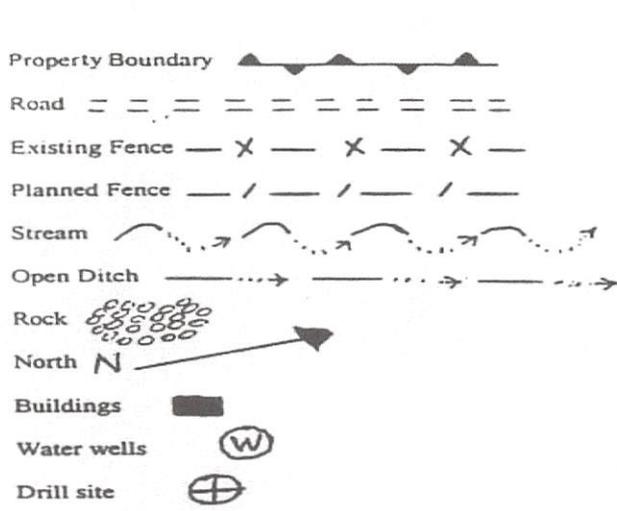
Janet Woodburn

My commission expires 2/26/2017

OCT 03 2013

Notary Public
Official Seal
Notary Public, State of West Virginia
Tyler Construction, Inc.
St. Marys, West Virginia
My commission expires February 26, 2017

WV Department of Environmental Protection



Proposed Revegetation Treatment: Acres Disturbed _____ Prevegetation pH _____

Lime 2 Tons/acre or to correct to pH 6.5

Fertilizer (10-20-20 or equivalent) 500 lbs/acre (500 lbs minimum)

Mulch _____ Tons/acre

Seed Mixtures

Seed Type	Area I lbs/acre	Seed Type	Area II lbs/acre
<u>Deer mix</u>			
<u>clover/timothy/Alhelpta</u>			
<u>as per farmer</u>			

Attach: Drawing(s) of road, location, pit and proposed area for land application.

Photocopied section of involved 7.5' topographic sheet.

Plan Approved by: [Signature]

Comments: must remove as much 4 1/2 as possible.

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Title: Inspector

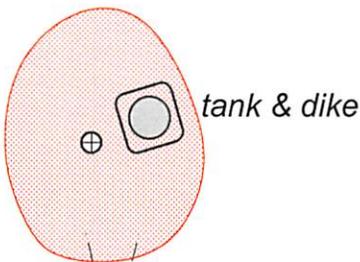
Date: 9-30-13

Field Reviewed? Yes No

WV Department of
Environmental Protection

Sancho Oil & Gas
Well: Moore #1 API 47-095-00692
Well: Moore #2 API 49-095-00693
Betty Marie Moore 263 Acre Lease
Meade District Tyler County
West Virginia

Moore # 1
API 47-095-00692
will use
existing location



325'@20%

- 1: Erosion and sediment control will be used as per West Virginia erosion and sediment field manual and/or directed by district inspector.
- 2: Cross drains and sediment control will be placed as needed.
- 3: Amount and size of culverts to be placed where needed.
- 4: Cut and stack all trees 6 inches and above.
- 5: Stockpile top soil for reclamation purposes.
- 6: Temporarily seed and mulch all slopes.

200'@10%

NOT TO SCALE

[Signature]
9-30-13

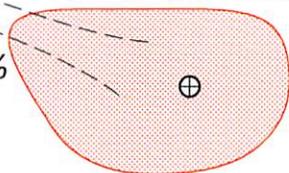
75' NL
County

Route 7/4

Moore # 2
API 47-095-00693

will use
existing location
in nearly flat field

125'@5%



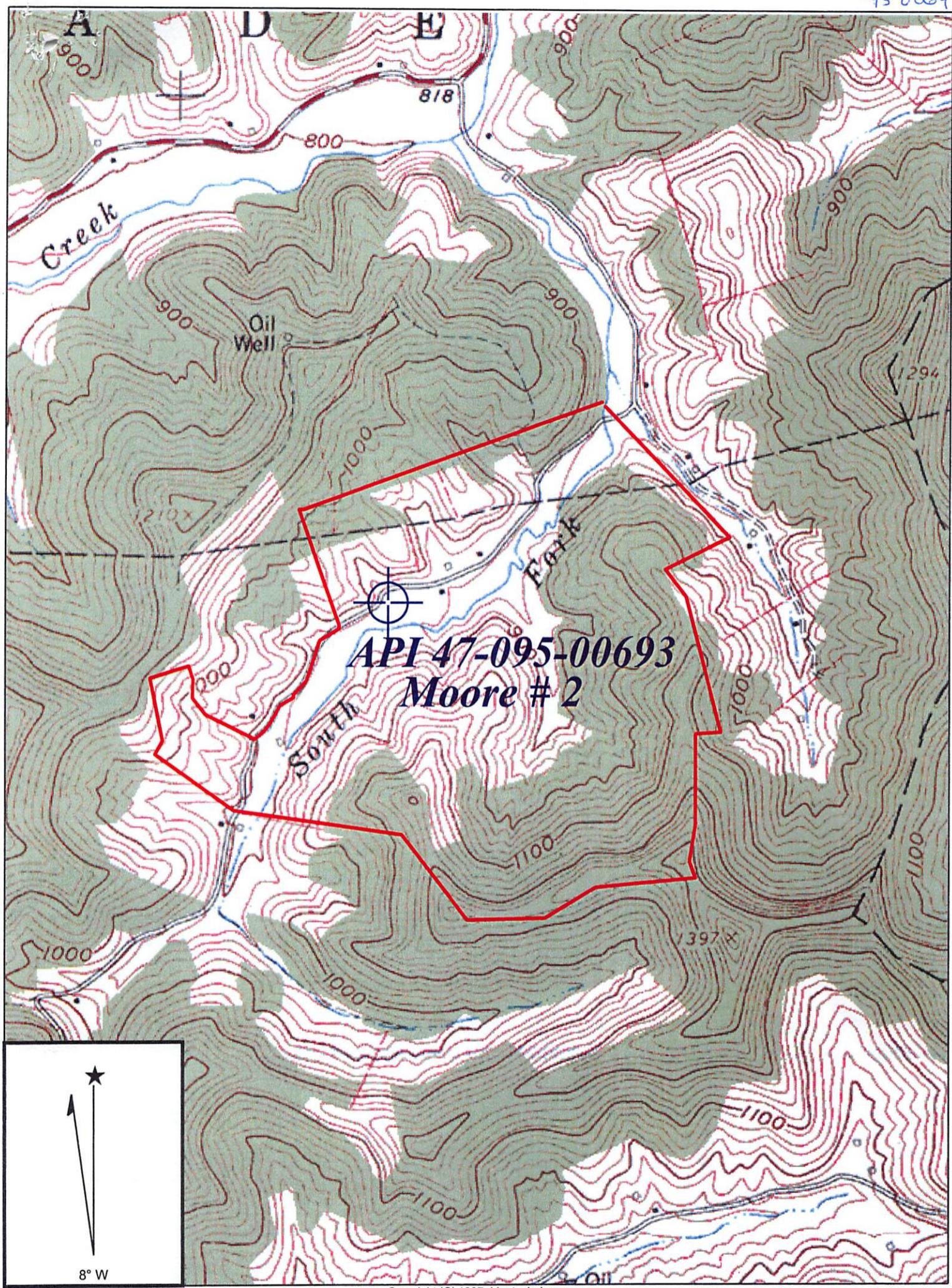
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tank & dike



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MIDDLEBOURNE QUADRANGLE

SCALE 1" = 1000'

SANCHO OIL & GAS

WELL: MOORE # 2 API 47-095-00693
BETTY MARIE MOORE 263 ACRE LEASE

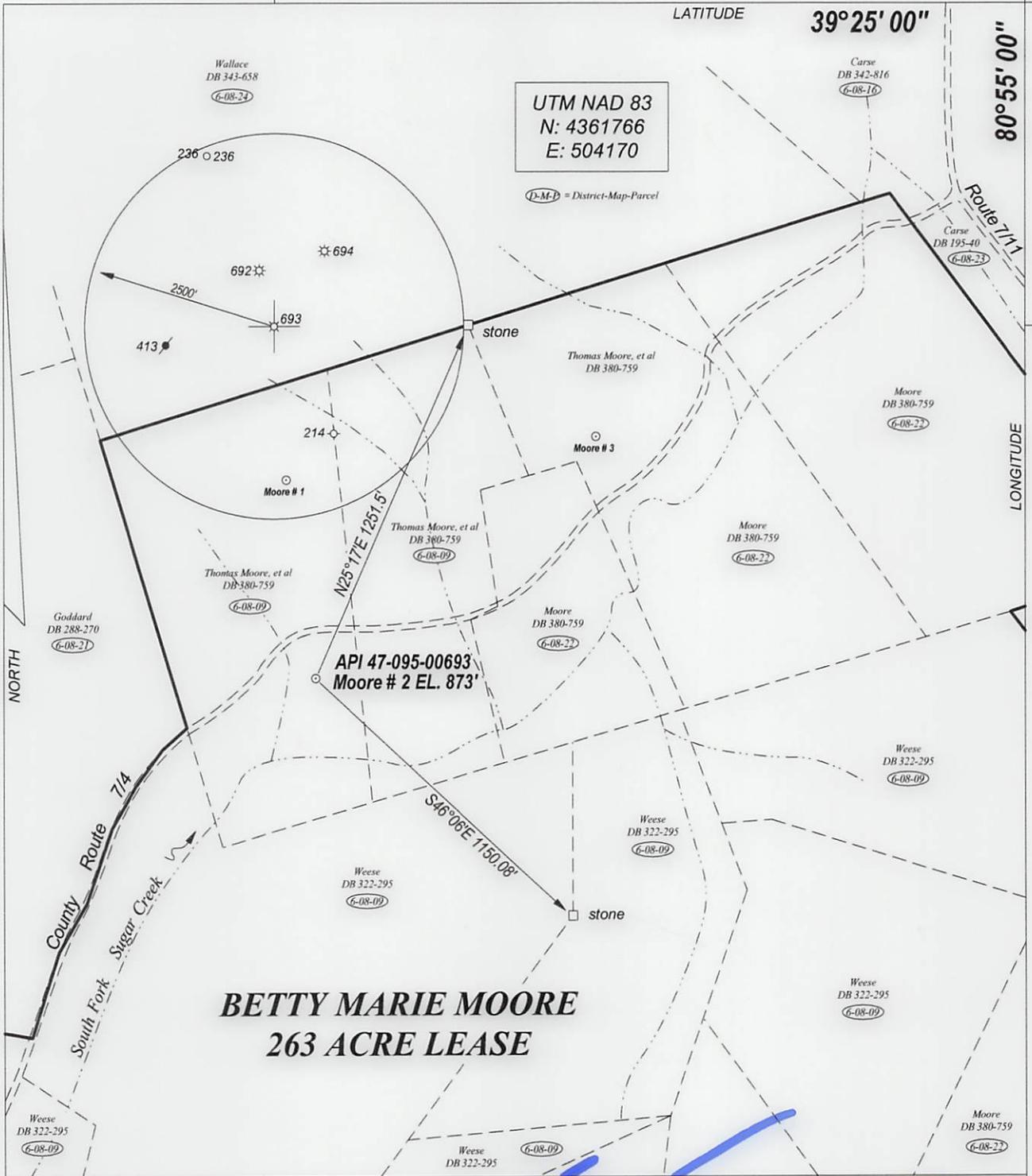
MEADE DISTRICT TYLER COUNTY WEST VIRGINIA

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WV Department of
Environmental Protection

80°57'05.64" (80.951566)
9900'



**BETTY MARIE MOORE
263 ACRE LEASE**

FILE NO. _____
DRAWING NO. _____
SCALE 1" = 500'
MINIMUM DEGREE OF ACCURACY 1 : 200
PROVEN SOURCE OF ELEVATION GPS
OBSERVATION

I, THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAT IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS ALL THE INFORMATION REQUIRED BY LAW AND THE REGULATIONS ISSUED AND PRESCRIBED BY THE DEPARTMENT OF ENERGY.
(SIGNED) _____
PROFESSIONAL SURVEYOR: 551



**STATE OF WEST VIRGINIA
DEPARTMENT OF ENERGY
DIVISION OF OIL AND GAS**

DATE AUGUST 28TH, 2013
OPERATORS WELL NO. MOORE # 2

API 47 - 095 - 00693 P
STATE COUNTY PERMIT

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

LOATION: ELEVATION 873' WATER SHED SOUTH FORK OF SUGAR CREEK
DISTRICT MEADE COUNTY TYLER QUADRANGLE MIDDLEBOURNE

SURFACE OWNER THOMAS MOORE, ET AL ACREAGE 20 ACRE 120 POLE
OIL & GAS ROYALTY BETTY MARIE MOORE LEASE AC. 263

PROPOSED WORK: DRILL _____ CONVERT _____ DRILL DEEPER _____ REDRILL _____
FRACTURE OR STIMULATE _____ PLUG OFF OLD FORMATION _____
PERFORATE NEW FORMATION _____
OTHER PHYSICAL CHANGE IN WELL _____
PLUG AND ABANDON CLEAN OUT AND REPLUG _____

TARGET FORMATION BEREA ESTIMATED DEPTH 2974'

WELL OPERATOR SANCHO OIL & GAS DESIGNATED AGENT LOREN BAGLEY
ADDRESS P. O. BOX 179 ADDRESS P. O. BOX 179
ST. MARYS, WV 26170 ST. MARYS, WV 26170

FORM WW - 6

COUNTY NAME
PREMIT