



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

March 20, 2014

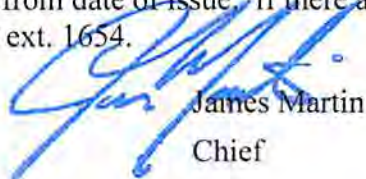
WELL WORK PLUGGING PERMIT

Plugging

This permit, API Well Number: 47-1501644, issued to TRIAD HUNTER, LLC, 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: O.D. STOCKLY #5
Farm Name: JONES, DAVID
API Well Number: 47-1501644
Permit Type: Plugging
Date Issued: 03/20/2014

Promoting a healthy environment.

03/21/2014

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.

1501644A

WW-4B
Rev. 2/01

1) Date January 30, 20 14
2) Operator's
Well No. O.D. Stockly # 5
3) API Well No. 47-015 - 01644

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 ___ / Liquid injection X / Waste disposal ___ /
(If "Gas, Production ___ or Underground storage ___) Deep ___ / Shallow X

5) Location: Elevation 1283' GPS Watershed Grannys Creek
District Henry 02 County Clay 15 Quadrangle Newton 512

6) Well Operator Triad Hunter, LLC 7) Designated Agent Kim Arnold
Address 125 Putnam Street Address P.O. Box 154
Marietta, Ohio 45750 Waverly, W.V. 26184

8) Oil and Gas Inspector to be notified 9) Plugging Contractor
Name Ed Gainer Name N/A
Address P.O. Box 821 Address _____
Spencer, W.V. 25276

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

(SEE ATTACHED SHEET)

See changes
6% gel between all plugs

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

Work order approved by inspector _____

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Date FEB 11 2014
WV Department of
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03/21/2014

(2014)

Plugging Procedure Attachment (Wells with 8 5/8" Casing)

Well Name : O.D. Stockly # 5

Permit Number: 47-015-01644

District: Henry

County: Clay

MIIRU service rig and flowback tank; blow well down.

1. Pull tubing and rods OOH.
2. Check total depth with sandpump; clean out hole below bottom perforation.
3. Run 2 3/8" tubing below bottom perforation.
4. (Bottom Hole Plug) Mix/Pump 20 sacks Class A cement,(23.6 cu. ft.), ¼ lb.flocele/sk., no CaCl.
5. Displace cement through tubing with gel water.
6. Pull 2 3/8" tubing OOH.
7. RIH with casing cutter tool, check depth of 1st plug and find 4 ½" cement top (free pipe).
8. Cut-off 4 ½" casing just above the cement top, break circulation, and pull one jt. of casing OOH.
9. (Cut Plug) Mix/Pump 30 sacks Class A cement, (35.4 cu. ft.), ¼ lb. flocele/sk.,no CaCl.
10. Displace cement through casing with gel water.
11. Pull 4 ½" casing up to the subsea elevation depth.
12. (Elevation Plug) Mix/Pump 30 sacks of Class A cement,(35.4 cu. ft.), ¼ lb. flocele/sk., no CaCl.
13. Displace cement through casing with gel water.
14. Pull 4 ½" casing to 100 feet below surface. *Let 100 ft plug excess bottom of surface pipe 400-300*
15. (Surface Plug) Mix/Pump 30 sacks of Class A cement,(35.4 cu. ft.), ¼ lb. flocele/sk., no CaCl.
16. Circulate cement to surface.
17. Pull remaining joints of 4 ½" casing OOH. Top load annulus with Class A cement to surface.
18. Weld a three foot monument pipe on to the existing casing. Fill monument pipe with cement and attach identification plate to monument pipe.
19. RDMO service rig and supporting equipment.
20. Reclaim well site and lease road.

Plug Summary

(Plug Name)	(Thickness)	(Cement Type)	(Sacks)	(Cubic Feet)
1. Bottom Hole	250 ft.	Class A	20	23.6
2. Cut Plug	100 ft.	Class A	30	35.4
3. Elevation Plug	100 ft.	Class A	30	35.4
4. Surface Plug	100 ft.	Class A	30	35.4
5. Totals:			110 sacks	129.8 cu. ft.

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Office of Oil and Gas

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1501644P

NL Baroid
Petroleum Services

McCullough

Gamma Ray - Caliper log

FILING NO.

FIELD
PRINT

COMPANY PENNZOIL CO.

WELL O.D. STOCKLY #5

FIELD HENRY DIST

COUNTY CLAY STATE W.Va

LOCATION GRANNY'S CREEK
Quad: OZC 15'

OTHER SERVICES:

Permit #
47-015-1644

SEC. TWP. RGE.

PERMANENT DATUM GL ELEV. 1273

LOG MEASURED FROM KB 10' above GL

DRILLING MEASURED FROM KB

ELEVATIONS:
KB 1283
DF 1282
GL 1273

DATE	7-20-80	
RUN NO.	ONE	TWO
TYPE LOG	Caliper	Gamma Ray
DEPTH - DRILLER	2222	2232
DEPTH - LOGGER	2210	2216
BOTTOM LOGGED INTERVAL	2200	2212
TOP LOGGED INTERVAL	1900	SURF
TYPE FLUID IN HOLE	Water	
SALINITY PPM CL.		
DENSITY LB./GAL.		
LEVEL	Full	
MAX. REC. TEMP. DEG. F.		
OPR. RIG TIME	2 hr	
RECORDED BY	Wavel	
WITNESSED BY	Mc Heldman	

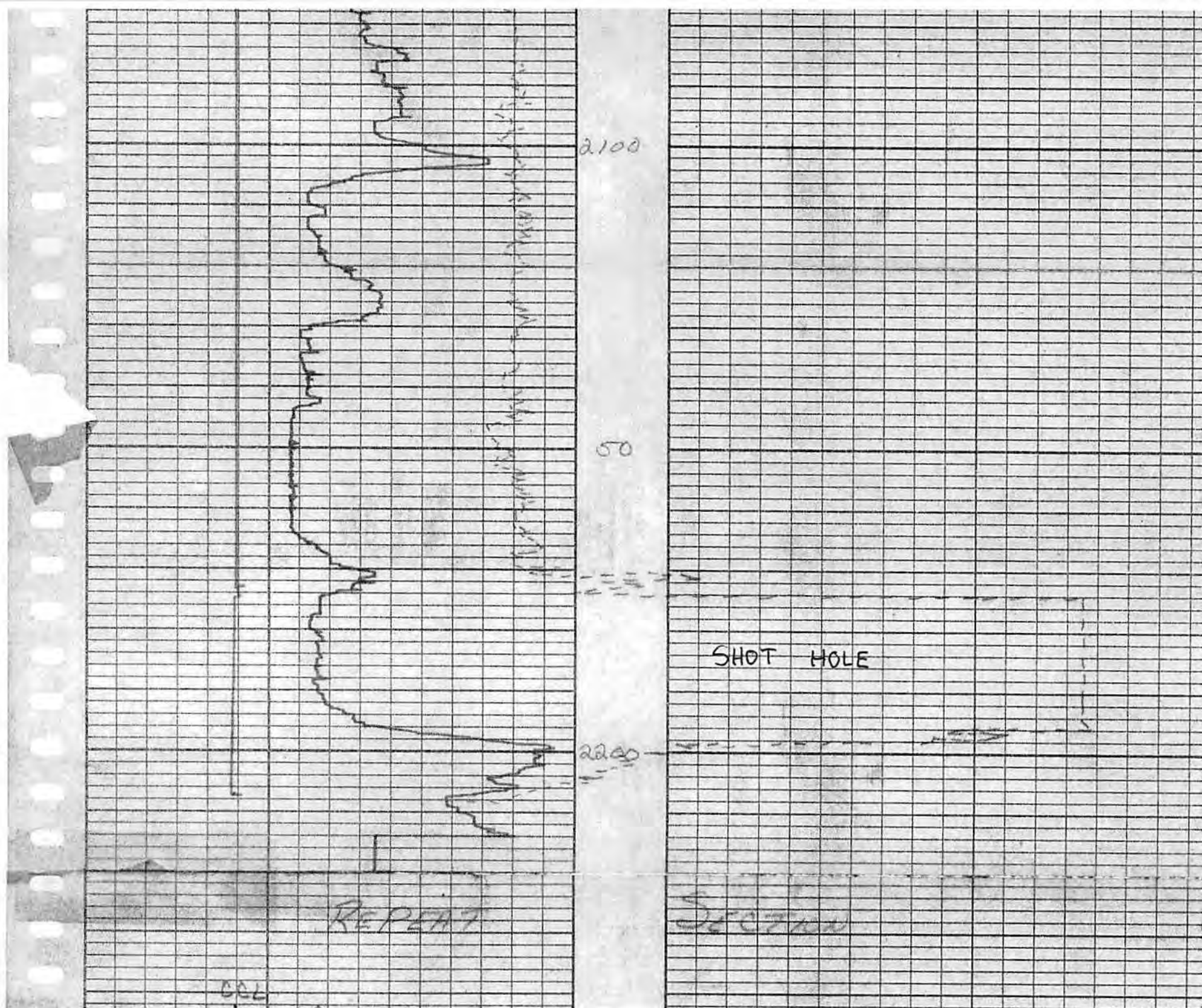
RUN		BORE HOLE RECORD				CASING RECORD	
NO.	BIT	FROM	TO	SIZE	WGT.	FROM	TO
	N.A.			8 5/8		SURF	SURF

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Casing Record
FEB 22 2014

W.Va. Department of
Environmental Protection

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THIS HEADING AND LOG CONFORMS TO API RECOMMENDED STANDARD PRACTICE RP-38 (20)



2100

50

2200

REPEAT

SHOT HOLE

SECTION

006

1501644P

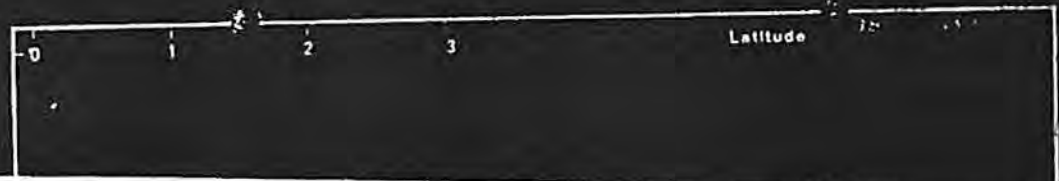
48-A
now 1644

O. D. STOCKLY NO. 5 WELL.

Not located.

Henry District, Clay County, W. Va.
Smith Pump Oil Co.
Completed about Nov. 4, 1925.
Elevation, 1273' L.
8" casing, 490'; 6-5/8", 2063'.
Casing record tallied but not steel-line measured; 8 1/2", 499';
6-5/8", 2063')
Better than 18 bbls.

	Top.	Bottom.
Conductor	0	14
Red rock and slate	14	338
Sand	338	374
Slate	374	385
Sand	385	595
Slate and lime shells	595	635
Sand	635	837
Slate	837	945
Sand	945	1045
Lime	1045	1127
Slate and shells	1127	1285
Sand	1285	1314
Slate and shells	1314	1420
Sand	1420	1450
Slate and lime	1450	1484
Sand	1484	1497
Lime	1497	1585
1st salt sand (water, 1606'; hole full, 1560')	1585	1905
Black lime	1905	1940
Red rock	1940	1947
Black lime	1947	1970
Slate	1970	1985
Little Lime	1985	2019
Sand	2019	2058
Big Lime	2058	2166
Big Injun Sand (S.L.W.) (oil, 2173-2198')	2166	2205
Slate, to bottom (S.L.W.)	2205	2216



1501644P

WELL TYPE: Oil / Liquid Injection / Water Disposal
 (If "Gas", Production / Underground storage / Deep / Shallow)
 LOCATION: Elevation: 1273' Watershed: Granny's Creek
 District: Henry County: Clay Subtriangle: Otter 15'

WELL OPERATOR Pennzoil Company DESIGNATED AGENT James A. Crews
 Address P. O. Box 1588 Address P. O. Box 1588
Parkersburg, WV 26101 Parkersburg, WV 26101

PERMITTED WORK: Drill / Convert / Drill deeper / Re-drill / Fracture or stimulate
 Plug off old formation / Perforate new formation /
 Other physical change in well (specify)

PERMIT ISSUED ON July 11, 1979 OIL & GAS INSPECTOR FOR THIS WORK:
 (IF APPLICABLE: PLUGGING OF DRY HOLE OR CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED) Name Martin Nichols
 Address Clendenin, WV

GEOLOGICAL TARGET FORMATION: Big Injun Depth 2160 feet
 Depth of completed well, feet Rotary / Cable Tools
 Water strata depth: Fresh, feet; salt, feet.
 Coal seam depths: Is coal being mined in the area? No
 Work was commenced 7-20-, 1979, and completed 7-21-, 1980

CASING AND TUBING PROGRAM

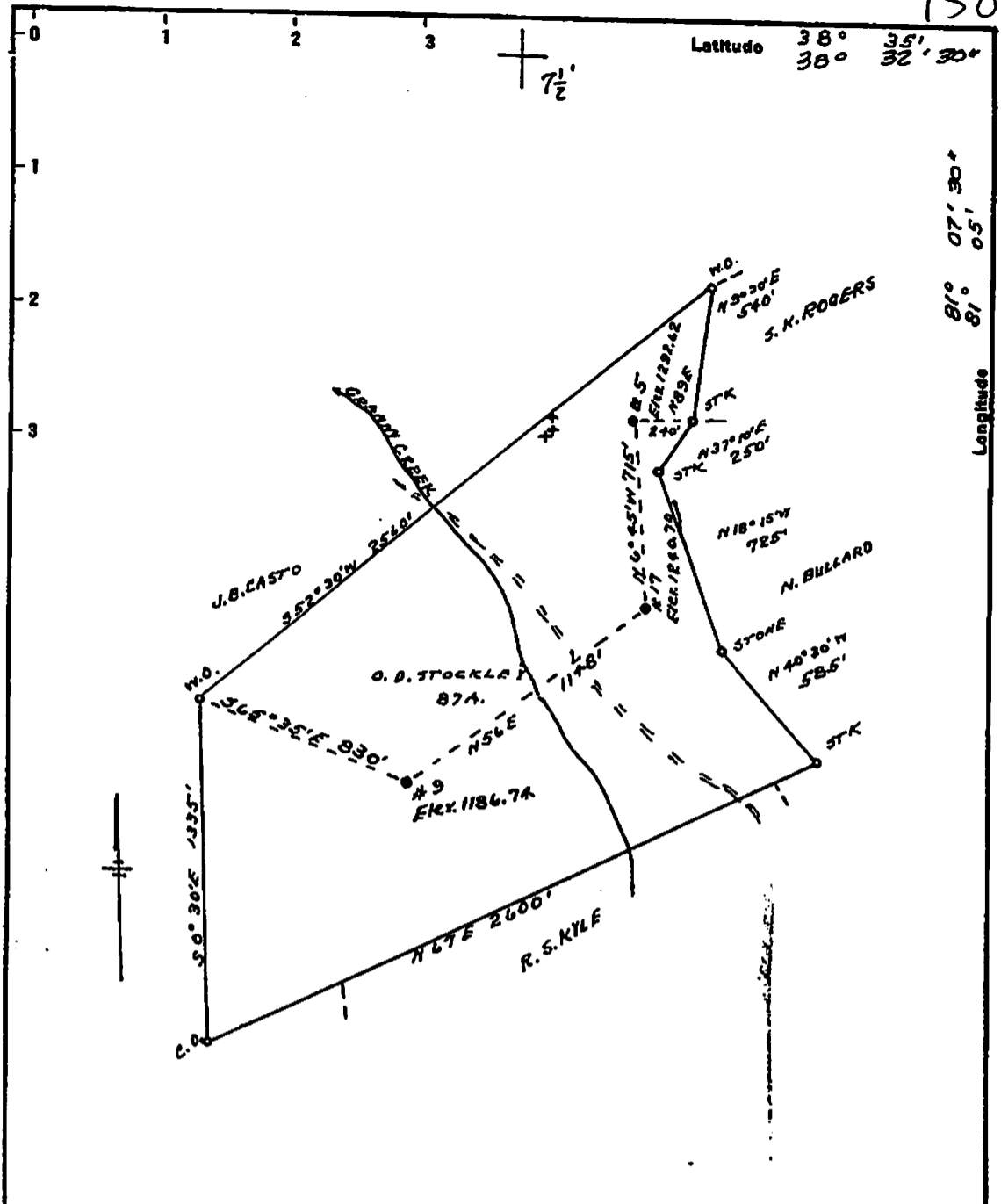
CASING OR TUBING TYPE	SPECIFICATIONS				FOOTAGE INTERVALS		CEMENT FILL-UP OR SACKS (Cubic Feet)	PACKERS
	Size	Grade	Weight per ft	New	Used	For drilling		
Conductor								Winds
Fresh water								
Coal	8-5/8						345	Sizes
Intermediate								
Production	4-1/2						2160	set w/tension packer Depth set
Tubing								
Liners								Perforations: Top Bottom

OPEN FLOW DATA

Producing formation Converted to Water Injection Pay zone depth ft
 Gas: Initial open flow, Mcf/d Oil: Initial open flow, Bbl/d
 Final open flow, Mcf/d Final open flow, Bbl/d
 Time of open flow between initial and final tests, hours
 Static rock pressure, psig (surface measurement) after hours shut
 (If applicable due to multiple completion--)
 Second producing formation Pay zone depth ft
 Gas: Initial open flow, Mcf/d Oil: Initial open flow, Bbl/d
 Final open flow, Mcf/d Final open flow, Bbl/d
 Time of open flow between initial and final tests, hours
 Static rock pressure, psig (surface measurement) after hours shut

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1501644A



WATER INJECTION

New Location...

Drill Deeper...

Abandonment...

Company S.G. LIMING SPECIAL

Address CLENDENIX, W.VA.

Farm O.D. STOCKLEY

Tract _____ Acres 87 Lease No. _____

Well (Farm) No. 59-17 Serial No. _____

Elevation (Spirit Level) SEE ABOVE

Quadrangle OTTER NEWTON 7 1/2

County CLAY District HENRY

Engineer R.F. Day

Engineer's Registration No. 80A

File No. _____ Drawing No. _____

Date 11-18-48 Scale 1" = 500'

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

WELL LOCATION MAP
FILE NO. 47-015-1644 - Frac.
FORMERLY CLA-48-A

+ 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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WW-4A
Revised 6-07

1) Date: January 30, 2014
2) Operator's Well Number
O.D. Stockly # 5

3) API Well No.: 47 - 015 - 01644

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>David Jones</u> ✓	Name <u>N/A</u>
Address <u>4081 Ovapa Road</u>	Address _____
<u>Ovapa, W.V. 25164</u>	_____
(b) Name _____	(b) Coal Owner(s) with Declaration
Address _____	Name <u>N/A</u>
_____	Address _____
(c) Name _____	Name _____
Address _____	Address _____
_____	_____
6) Inspector <u>Ed Gainer</u>	(c) Coal Lessee with Declaration
Address <u>P.O. Box 821</u>	Name <u>N/A</u>
<u>Spencer, W.V. 25276</u>	Address _____
Telephone <u>(304) 389-7582</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 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 Triad Hunter, LLC

By: Rocky Roberts *Rocky Roberts*

Its: Senior V.P. Appalachian Operations

Address 125 Putnam Street

Marietta, Ohio 45750

Telephone (740) 374-2940

Subscribed and sworn before me this 30th day of January, 2014

Elizabeth P. Libby Notary Public

My Commission Expires 2-29-16



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.

WV Department of Environmental Protection
03/21/2014

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Return Receipt Fee (Endorsement Required)	
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	\$

David Jones
 4081 Ovapa Rd
 Procious, WV 25164

MARIETTA OH 45750
 FEB 14 2014
 USPS
 GEN

(4) ✓

O.D. Stockly # 5	47-015-1644
# 16	47-015-1468
# 200	47-015-1630
# 205	47-015-1654

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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 Triad Hunter, LLC OP Code _____

Watershed Grannys Creek Quadrangle Newton

Elevation 1283' GPS County Clay District Henry

Description of anticipated Pit Waste: * No Pit *; fluids will be separated at Ovapa Facility; oil stored and salt water re-injected.

Will a synthetic liner be used in the pit? * No Pit *

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 Swabbing
- Workover Plugging
- Other (Explain _____)

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 [Handwritten Signature]

Company Official (Typed Name) Rocky Roberts

Company Official Title Senior V.P. Appalachian Operations

Subscribed and sworn before me this 30 day of January, 2014

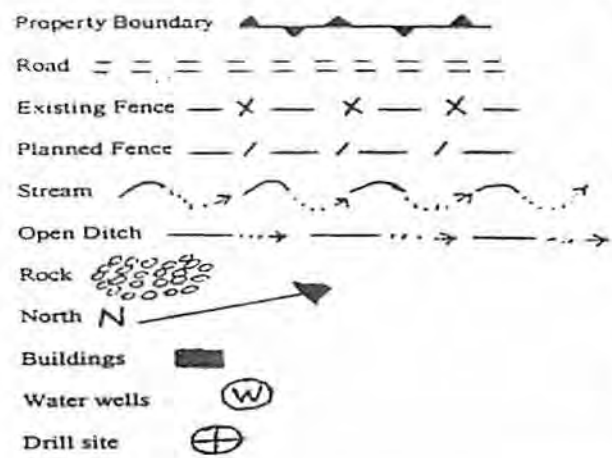
Elizabeth R. LeBay

Notary Public

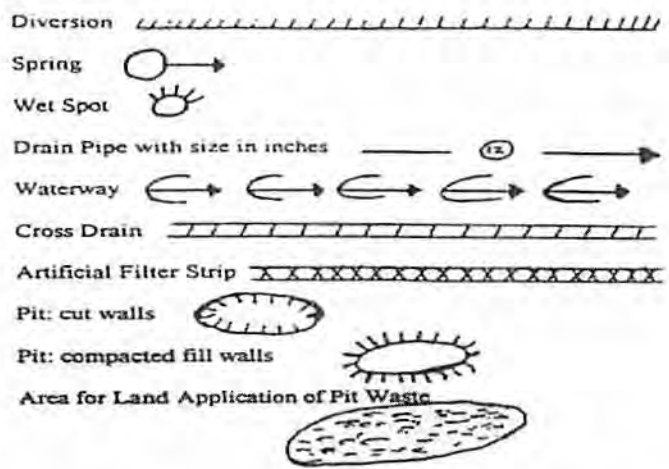


My commission expires 2-29-16

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ELIZABETH R. LEBAY
FEB 21 2014
WV Department of
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02/21/2014



LEGEND



Proposed Revegetation Treatment: Acres Disturbed One (1) Prevegetation pH 5.5

Lime Two (2) Tons/acre or to correct to pH 6.5

Fertilizer (10-20-20 or equivalent) 600 lbs/acre (500 lbs minimum)

Mulch 90-100 bales/acre Tons/acre

Seed Mixtures

Seed Type	Area I	lbs/acre	Seed Type	Area II	lbs/acre
Orchard Grass		30%			
Rye (Annual & BT)		35%			
Timothy (Climax)		25%			
Clover (Med. Red)		10%			

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: _____

Title: Inspector

Date: 2/4/14

Field Reviewed? () Yes (X) No

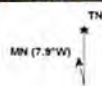
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Scale 1 : 28,125
 Environmental Protection
 03/21/2014
 1" = 2,343.8 ft
 12-7

WW-7
8-30-06



West Virginia Department of Environmental Protection
Office of Oil and Gas
WELL LOCATION FORM: GPS

API: 47-015-01644 WELL NO.: 5

FARM NAME: O.D. Stockly

RESPONSIBLE PARTY NAME: Triad Hunter, LLC

COUNTY: Clay DISTRICT: Henry

QUADRANGLE: Newton

SURFACE OWNER: David Jones

ROYALTY OWNER: Black Stone Minerals LLP et al

UTM GPS NORTHING: 4265846

UTM GPS EASTING: 0487444 GPS ELEVATION: 1283'

The Responsible Party named above has chosen to submit GPS coordinates in lieu of preparing a new well location plat for a plugging permit or assigned API number on the above well. The Office of Oil and Gas will not accept GPS coordinates that do not meet the following requirements:

1. Datum: NAD 1983, Zone: 17 North, Coordinate Units: meters, Altitude: height above mean sea level (MSL) – meters.
2. Accuracy to Datum – 3.05 meters
3. Data Collection Method:

Survey grade GPS : Post Processed Differential

Real-Time Differential

Mapping Grade GPS : Post Processed Differential

Real-Time Differential

4. Letter size copy of the topography map showing the well location.

I the undersigned, hereby certify this data 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 Office of Oil and Gas.

Don Smith
Signature

Geologist
Title

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1/17/14
Date
WV Department of
Environmental Protection

03/21/2014

1501644A



Chuck Taylor
Toolbox

Geographic/UTM Coordinate Converter

You can convert between geographic coordinates and Universal Transverse Mercator (UTM) coordinates using this form.

Note: This is a JavaScript-powered form. If you have difficulties using this form, check your browser's settings to make sure you have enabled JavaScript.

Programmers: The JavaScript source code in this document may be copied and reused without restriction.

If you have a Java 1.1-compliant browser, and especially if you need to use an ellipsoid model other than WGS84, you may want to try the [Coordinate and Datum Transformations tool](#).

Geographic (degrees decimal)	To/From	UTM	
lon -81.144075891331 [>>]	x (easting)	0487444	O.D. Stock ly # 5
lat 38.540939594809 [<<]	y (northing)	4265846	
	zone	17	
	hemisphere	<input checked="" type="radio"/> N <input type="radio"/> S	

Geographic coordinates are entered and displayed in decimal degrees. Negative numbers indicate West longitudes and South latitudes. UTM coordinates are entered and displayed in meters. The ellipsoid model used for computations is WGS84.

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