



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

July 08, 2014

WELL WORK PLUGGING PERMIT

Plugging

This permit, API Well Number: 47-5100508, issued to EAGLE NATRIUM 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: 1
Farm Name: WELLS, R. N. - HEIRS
API Well Number: 47-5100508
Permit Type: Plugging
Date Issued: 07/08/2014

Promoting a healthy environment.

07/11/2014

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.

1) Date 6/02, 2014
2) Operator's
Well No. Pats Well #1-R
3) API Well No. 47-051 - 0508

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

5) Location: Elevation 631 ft. Watershed Ohio River
District Franklin County Marshall Quadrangle New Martinsville, WV

6) Well Operator Eagle Natrium, LLC 7) Designated Agent J. Thomas Horan
Address P.O. Box 191 Address P.O. Box 191
New Martinsville, WV 26155 New Martinsville, WV 26155(S)

8) Oil and Gas Inspector to be notified 9) Plugging Contractor
Name Jim Nicholson 304-552-3874 Name Viking Well Service
Address Address 8113 Sissonville Dr.
 Sissonville, WV 25320

10) Work Order: The work order for the manner of plugging this well is as follows:
(See attached Drawing #70-2642 complete with well plugging plan)
SEE PLUGGING PROCEDURE

CEMENT PLUG - MUST BE A MINIMUM OF 100 FT. CLASS A CEMENT WITH NO MORE THAN 3% CaCl₂ AND NO OTHER ADDITIVES.

GEL SPACER - GEL IS DEFINED AS FRESH WATER WITH AT LEAST 6% BENTONITE, BY WEIGHT, ADDED TO IT.

ENTIRE WELL BORE NEEDS TO BE FILLED WITH CEMENT PLUGS AND GEL SPACERS.

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

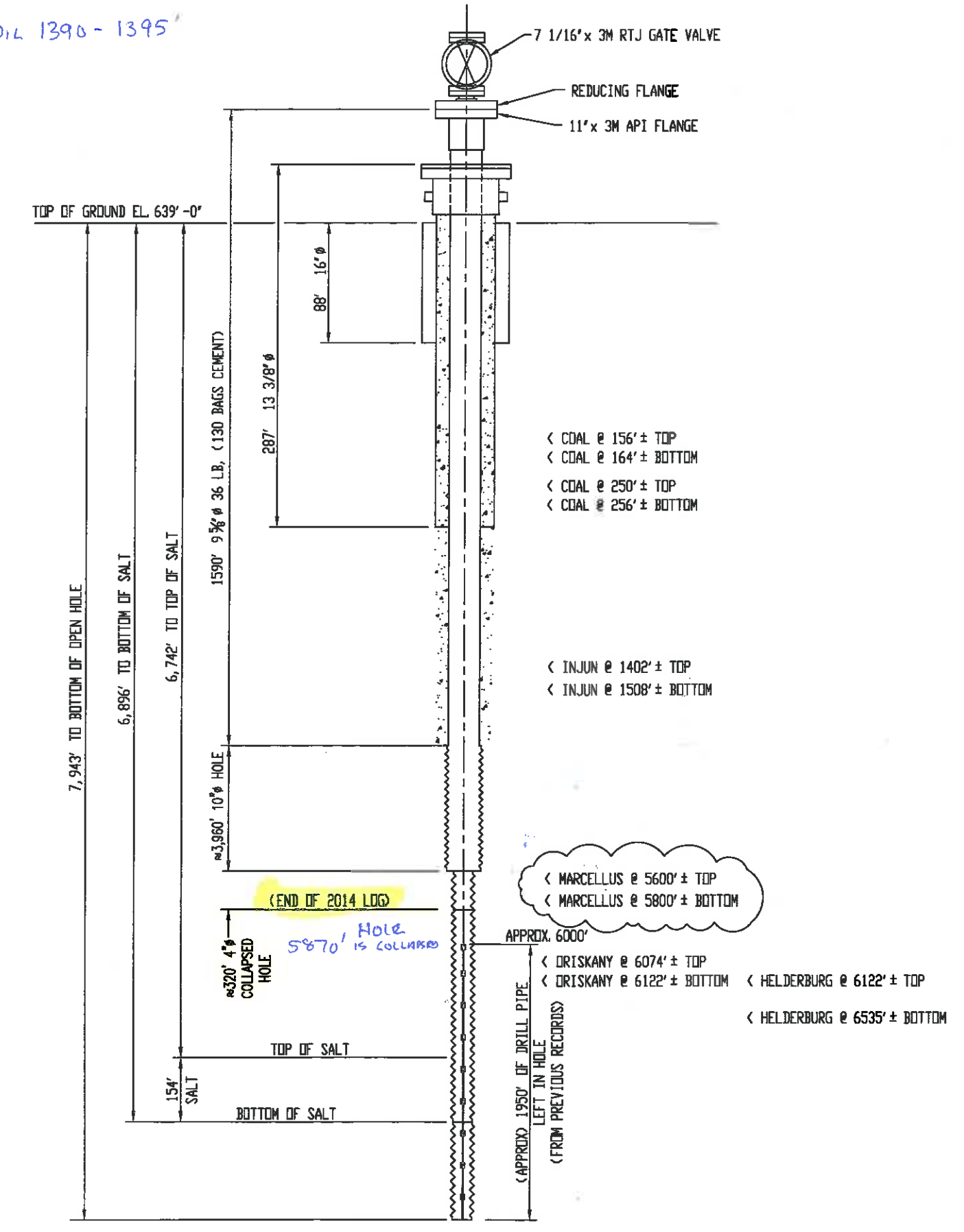
gmn

Work order approved by inspector

RECEIVED
Office of Oil and Gas
JUN 09 2014
WV Department of
Environmental Protection
Date

FRESH WATER 50'
 COAL 156' - 164'
 COAL 250 - 256'
 GAS & OIL 1390 - 1395'

ELEV. 639'
 ONONDAGA 5842'



DESCRIPTION OF PROPOSED WELL PLUGGING PLAN:

- 1.) CLEAN WELL-HOLE THROUGH TO DEEPEST ATTAINABLE DEPTH.
- 2.) PERFORM CEMENT BOND LOG FOR 9 5/8" Ø CASING TO DETERMINE LOOSE CASING.
- 3.) FREE POINT 9 5/8" Ø CASING.
- 4.) REMOVE LOOSE 9 5/8" Ø CASING.
- 5.) **BALANCE PLUG (CEMENT) FROM APPROX. 6535' TO 5600'.**
- 6.) GEL FROM APPROX. 5600' TO 1430'.
- 7.) MILL (APPROX. 30' WINDOW) IN THE 9 5/8" Ø CASING FROM 1430' TO 1400', IF CASING WAS NOT PREVIOUSLY REMOVED AS STATED IN STEP 5.
- 8.) BALANCE PLUG (CEMENT) FROM APPROX. 1430' TO 1000'.
- 9.) GEL FROM APPROX. 1000' TO 300'.
- 10.) CEMENT INSIDE OF 9 5/8" Ø CASING FROM APPROX. 300' TO SURFACE.
- 11.) INSTALL A PERMANENT MONUMENT @ THE SURFACE OF THE WELL.

★ REFER TO ATTACHED PLUGGING PROCEDURE FOR API WELL NUMBER 47-051-00508.

4	MGH	06/02/14	REVISED DESCRIPTION NOTES.
3	MGH	06/02/14	ADDED DESCRIPTION OF PROPOSED WELL PLUGGING PLANS
2	MGH	05/19/14	REVISION BASED ON RECORDED LOG INFORMATION IN 2014
1	MGH	03/06/14	GEN. REV. FOR AS DRILLED (IN 1965)
	REV. BY	DATE	DESCRIPTION

DEPT: 70 - BRINE	
TITLE: PAT WELLS - #2 DEEP WELL - API #47-051-0508	
WELL INSTALLED 1964 - 1965 - (REDRAWN JAN. 2014)	
DRAWING TYPE: MECHANICAL PROCESS EQUIPMENT	MPE
EQUIPMENT No: 7000-115-XXXX	
REDRAWN N. HUSARIK	DATE 01/27/14
CHECKED S. CLARK	DATE 01/27/14
APP' VD	DATE
SCALE NONE	ACAD YES
JOB No -	REV 4
NATRIUM DWG 70-2642	

NOTE:
 THIS DRAWING IS NOT TO SCALE

Plugging Procedure for API**Well Number 47-051-00508**

- 1) Clean well to at least the bottom of the Marcellus/top of Onondaga or top of fish at ~ 6000'. If possible clean hole to 6000'.
- 2) TIH with tubing work string and gel hole to 6000' or as deep as possible. Set a Class A Cement Plug from 6000', (or as deep as possible with a minimum depth of 5870'), to 5000'.
- 3) TOOH with work string to up inside the 9 5/8" casing. Wait at least 4 hours and TIH and tag the cement plug. If TOC is not at 5000', then add more Class A Cement until the TOC is at least 5000'.
- 4) Gel hole through work string from TOC at 5000' to at least 4200' and set a Class A Cement Plug from 4200' to 4000'. Check TOC after 4 hours making sure it is at least 4000'.
- 5) Tag Cement Plug to make sure TOC is at least 4000'.
- 6) Gel hole from 4000' to 1955' and set a 100' Class A Cement Plug from 1955' to 1855'. Wait 4 hours and make sure TOC is at least 1855'. Repeat if necessary.
- 7) Find free point of 9 5/8" casing. It should be ~ 1100' based on well records. Cut casing at free point and TOOH with free 9 5/8" casing.
- 8) Set 100' Class A Cement Plug 50' in/out of cut, approximately 1150' to 1050'.
- 9) Gel hole to 700' and set 100' Class A Cement Plug from 700' to 600'. (elevation)
- 10) Gel hole to bottom of 13 3/8" casing at 315'. If 13 3/8" casing is not cemented to surface, try to pull it. Code requires to pull with at least a force equal to 1 ½ times the casing string weight.

If 13 3/8" is not pulled, but is cemented to surface as indicated by a bond log, then proceed to step 11. If 13 3/8" is not pulled, and it has not been cemented to surface proceed to step 12.
- 11) Set a Class A Cement Plug from 365' to 70'.
- 12) Perforate 13 3/8" at coal shows of 256' - 250' and 164' - 156' and set a Class A Cement Plug from 365' to 70'.
- 13) If 16" casing is not cemented, pull it out of hole and cement from 70' to surface and set a monument to WV DEP standards. If 16" is not removed from well bore then proceed to step 14.
- 14) Perforate 16" at 50' and fill with cement to just below the surface. Then set a monument to WV DEP standards.



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION 14

Rotary
Spudder
Cable Tools
Storage

5100508P
12-6-65

Quadrangle New Martinsville NE

Permit No. MAR 508 R

WELL RECORD

Oil or Gas Well Brine
(KIND)

Company PAT WELLS OIL COMPANY
Address P.O. BOX 267 Moundsville, W. Va.
Farm R.N. Wells Hrs. Acres 85.36
Location (waters) Ohio River
Well No. 1 -R Elev. 639'
District Franklin County Marshall
The surface of tract is owned in fee by Mary C., William F., & James P. Wells Address RFD#2 Proctor W. Va.
Mineral rights are owned by As Above
Address _____
Drilling commenced NOV. 4, 1964
Drilling completed April 26, 1965
Date Shot no From _____ To _____
With _____
Open Flow /10ths Water in _____ Inch
/10ths Merc. in _____ Inch
Volume _____ Cu. Ft.
Rock Pressure _____ lbs. _____ hrs.
Oil _____ bbls., 1st 24 hrs.
WELL ACIDIZED (DETAILS) no
WELL FRACTURED (DETAILS) no

Casing and Tubing	Used in Drilling	Left in Well	Packers
Size			
16	88'	88'	Kind of Packer
13 3/8	287'	287'	
X 9 5/8"	1602'	1602'	Size of
8 1/4			
6 3/4			Depth set
5 3/16			
4 1/2			
3			Perf. top
2			Perf. bottom
Liners Used			Perf. top
			Perf. bottom

Attach copy of cementing record.
CASING CEMENTED 9 5/8" SIZE 500 No. Fl. 11/29/64 Date
Amount of cement used (bags) 130
Name of Service Co. Halliburton
COAL WAS ENCOUNTERED AT 156 FEET INCHES
250 FEET INCHES FEET INCHES
FEET INCHES FEET INCHES
RESULT AFTER TREATMENT (Initial open Flow or bbls.) _____
ROCK PRESSURE AFTER TREATMENT _____ HOURS
Fresh Water 50 Feet Salt Water _____ Feet
Producing Sand Salina Salt Depth 6754' - 6897'

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth	Remarks
-From Logs of well-							
top soil			0	30			
gravel			30	80			
shale			80	83			
shale	red		83	156	1285		
coal			156	164	639		
shale			164	250	146		
coal			250	256			Pittsburg
shale			256	306			
shale	gr.		306	406			
lime			406	414			
shale			414	500			
sand			500	520			
shale			520	745			
lime			745	810			
sand&shale			810	970			
shale			970	1050			
sand			1050	1070			
shale			1070	1165			
lime			1165	1195			
sandy shale			1195	1270			
lime			1270	1280			
shale			1280	1285			
lime			1285	1314			
lime			1314	1390			
sand			1390	1402			



Little lime
Pencil cave
Blue Monday
Big Lime
Keener

07/11/2014

Deep Well

Formation	Color	Hard or Soft	Top 14	Bottom	Oil, Gas or Water	Depth Found	Remarks
sand			1402	1508			<u>Big Injun</u>
shale			1508	1750			<u>Weir</u>
sand&shale			1750	1790			<u>Berea</u>
shale			1790	1955			<u>Speechley</u>
sand&shale			1955	1967			<u>Hartell</u>
sand&shale			1967	2905			<u>Hamilton</u>
sand&shale			2905	2944			<u>Onondaga 5842'</u>
shale			2944	4215			<u>Hunterville</u>
shale			4215	5800			<u>Oriskany</u>
shale			5800	5846			<u>Shriner</u>
lime	<i>Onondaga</i>		5846	6074			<u>Helderberg</u>
sandstone	<i>Oriskany</i>		6074	6122			<u>Keyser</u>
limestone			6122	6283			<u>Tonoloway</u>
Dolomite lime			6283	6400			<u>Wills Creek</u>
limestone			6400	6535			<u>Salina</u>
limestone			6535	6689			
limestone			6689	6742			
anhydrite, lime - salt			6742	6896			
shale			6896	6915			
dolomite			6915	6950			
shale			6950	6990			
dolomite			6990	7000			
shale			7000	7055			
limestone, sandstone			7055	7785			
sandstone, shale			7785	7826	gas	7820'	<u>Keefe</u>
shale			7826	7943			<u>Rosehill</u>
total depth			7943				
				5842	6074	6122	
				640	640	640	
			5707	5434	5487		

Date Dec. 3, 1965, 10

APPROVED PAT WELLS OIL COMPANY, Owner

By [Signature] Consultant (title)



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION 20

Rotary
Spudder
Cable Tools
Storage

Quadrangle New Martinsville N.E/4

WELL RECORD

Permit No. MARS508

-Oil or Gas Well Dry
well skip ring

Company Lt. Col. James F. Wells & Associates
 Address 1304 Seventh Street, Moundsville, W. Va.
 Farm R. N. Wells Feirs Acres 85.36
 Location (waters) Ohio River
 Well No. 1 Elev. 640
 District Franklin County Marshall
 The surface of tract is owned in fee by Mary C., Wm. F. & James P. Wells Address RD#2, Proctor, W. Va.
 Mineral rights are owned by Mary C., Wm. F. & James P. Wells Address RD#2, Proctor, W. Va.
 Drilling commenced July 10, 1963
 Drilling completed October 17, 1964
 Date Shot No From No To No
 With No
 Open Flow No /10ths Water in No Inch
No /10ths Merc. in No Inch
 Volume No Cu. Ft.
 Rock Pressure No lbs. hrs.
 Oil No bbls., 1st 24 hrs.
 WELL ACIDIZED No
 WELL FRACTURED No

Casing and Tubing	Used in Drilling	Left in Well	Packers
Size			
16	70'	70'	Kind of Packer
14	315'	315'	
10	762'	762'	Size of
8 5/8	1630'	203'	Depth set
3 1/2			Perf. top
3			Perf. bottom
2			Perf. top
			Perf. bottom

CASING CEMENTED 8 5/8 SIZE 203 No. Ft. 10/15/64 Date

COAL WAS ENCOUNTERED AT 155 FEET 60 INCHES
250 FEET 60 INCHES FEET INCHES
 FEET INCHES FEET INCHES

RESULT AFTER TREATMENT No
ROCK PRESSURE AFTER TREATMENT No
Fresh Water Feet 50 Salt Water Feet 287 & 1410

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth	Remarks
Top Soil		S	0	28			
Gravel		S	28	78			
Shale		S	78	80			
Red Shale	Red	S	80	90			
Shale	Lt Er	S	90	105			
Lime	LTER to GR	S	105	155			
#9 Coal	Black	S	155	160			
Shale	Gr	S	160	163			
Lime	Br	H	163	217			
Shale	Gr	H	217	250			
#8 Coal	Black	S	250	255			
Shale	Gr	S	255	285			
Sand	Lt Gr	S	285	300	Water at 287 ft.		
Lime	Gr	H	300	306			
Red	Red	H	306	315			
Shale	Gr	S	315	322			
Red	Red	S	322	346		1272	1365
Shale	Gr	S	346	352		640	640
Red	Red	S	352	374		632	725
Shale	Gr	S	374	390			
Sand	Gr	S	390	408			
Shale	Gr	H	408	418			
Red	Red	S	418	432			
Shale	Gr	S	432	460			
Sand	Lt Gr	S	460	498			
Shale	Lt Gr	H	498	526			
Red	Red	S	526	540			
Shale	Red	S	540	560			
Sand	Lt Gr	S	560	583			
Shale	Gr	S	583	600			

5100508P

Formation	Color	Hard or Soft	Top 20	Bottom	Oil, Gas or Water	Depth Found	Remarks
Slate	Gr	S	600	606			
Shale	Gr	S	606	634			
Pink Rock	Pink	S	634	655			
Sand	Lt Gr	S	655	675			
Shale	Gr	S	675	685			
Slate	Gr	S	685	715			
Shale	Gr	S	715	726			
Shale	Gr	S	726	760			
Lime	Lt Gr	S	760	790			
Shale	Lt Br	S	790	814			
Sand	Gr	S	814	963			
Shale	Lt Br	S	963	985			
Sand	Gr	S	985	1026			
Shale	Gr	S	1026	1071			
Sand	Gr	S	1071	1094			
Shale	Gr	S	1094	1108			
Sand	Gr	S	1108	1160			
Shale	Gr	S	1160	1245			
Sand	Lt Gr	S	1245	1255			
Slate	Lt Gr	S	1255	1260			
Lime	Gr	S	1260	1269			
Break	Gr	S	1269	1272			
Big Line	Gr	S	1272	1365			
Sand	Lt Br	S	1365	1398	Gas & Oil	1390 ft to 1395 ft.	
Sand	Lt Br	S	1398	1401			
Break	Lt Br	S	1401	1506	H.F. water	1410 ft.	
Sand	Lt Br	H	1506	1507	Gas	1470 ft.	
Break	Lt Br	H	1507	1519	Gas	1515 ft.	
Sand	Lt Br	H	1519	1590	Gas	1575 ft.	
Slate	Gr	S	1590	1790			
Lime	Wh	S	1790	2030			
Shale	Lt Gr	S	2030	2085			
Shale Pink	Pink	S	2085	2476			
Shale	Pink	S	2476	2506			
Shale	Pink	S	2506	3023	Bottom of hole	3023 ft.	

Date 2 ND OF NOVEMBER, 1964

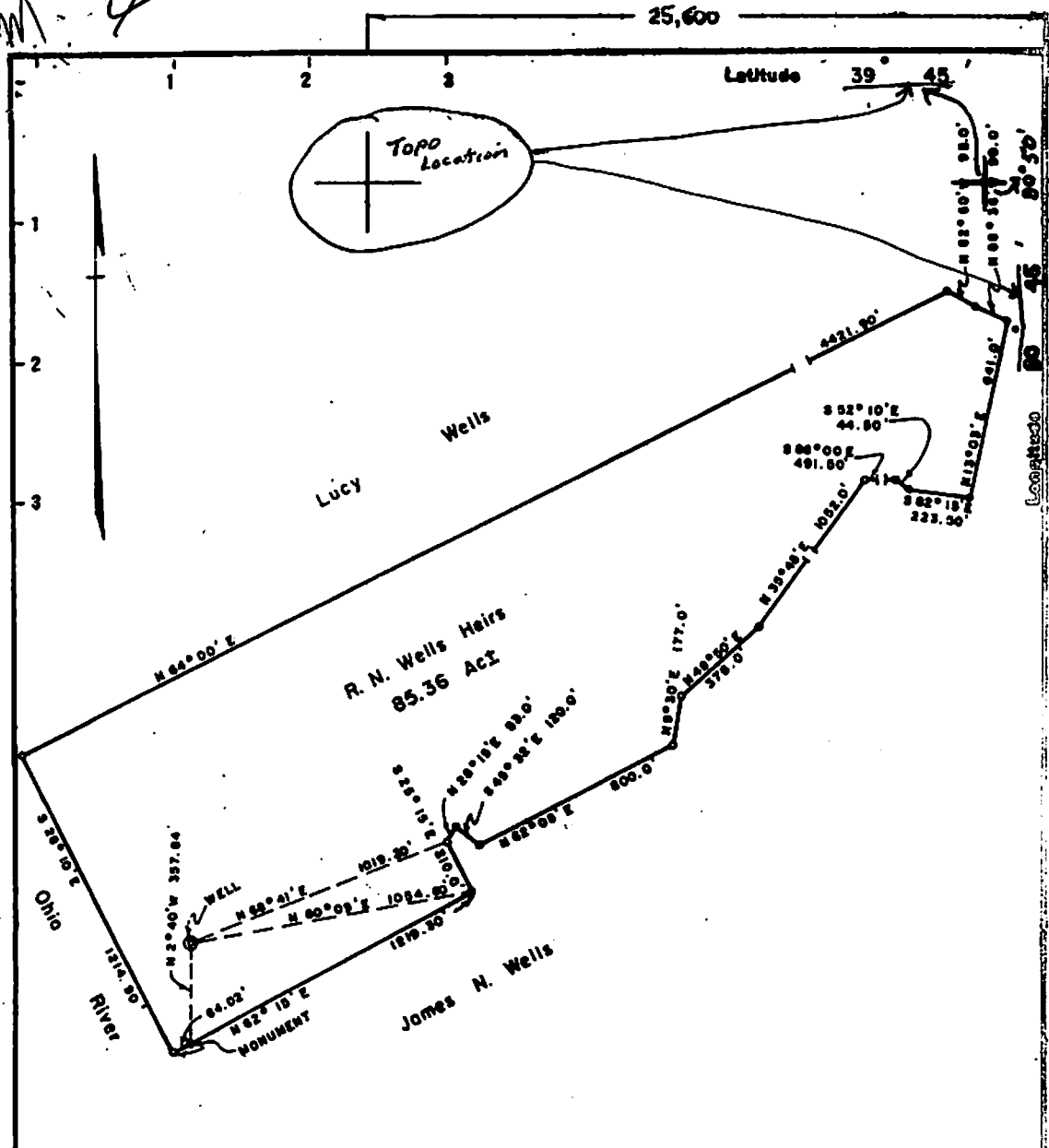
APPROVED LT. COL. James P. Well RET Y ASSOC, Owner

By James P. Well
(Title)

07/11/2014

M 4

P. 5100508P



0.94 S. 39°45'
 0.42 W 80°50'

Minimum Error of Closure 1" in 1000'

Source of Elevation B.M. S.E. Corner of landing of steps to Mobay Office elev. 650'

2 NE (E-0)

New Location 53
 Drill Deeper
 Abandonment

I, the undersigned, hereby certify that this map is correct to the best of my knowledge and belief and shows all the information required by paragraph 6 of the rules and regulations of the oil and gas section of the mining laws of West Virginia.

Company Lt. Col. James P. Wells Ret. & Assc.
 Address 1304 7th St. Moundsville, W. Va.
 Farm R. N. Wells Heirs
 Tract 1 Acres 85.36 Lease No. _____
 Well (Farm) No. 1 Serial No. _____
 Elevation (Spirit Level) 640
 Quadrangle New Martinsville - NC
 County Marshall District Franklin
 Engineer N. James Schellhase
 Engineer's Registration No. 1673
 File No. _____ Drawing No. _____
 Date June 17, 1963 Scale 1" = 500'

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

WELL LOCATION MAP
 FILE NO. MR 25-508

+ Denotes location of well on United States Topographic Maps, scale 1 to 62500, latitude and longitude lines being represented by border lines as shown.

- Denotes one inch spaces on border line of original tracing.

07/11/2014

No. 8-10-10-10

9-00 Deer Well

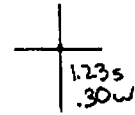
51 00 508P

99°45'00"

80°00'00"

Latitude

Longitude



Topo Location

7.5' Loc. _____ 15' Loc. _____
 _____ (calc.) _____

Company Pgh Plate & Glass
 Farm Pgh Plate & Glass
 15' Quad _____
 (sec.) _____
 7.5' Quad New Martinsville
 District Franklin

WELL LOCATION PLAT

County 051 Permit 508

07/11/2014

DEEP WELL

5100508P

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION

INSPECTOR'S PLUGGING REPORT

Well No. 1

COMPANY Tracy James Wells and Associates
FARM Rolls N Wells Home DISTRICT Franklin COUNTY Marshall

Plugging Material Used Gravel and Cement

Liner Location Amount Packer Location

PLUGS USED AND DEPTH PLACED			BRIDGES	CASING AND TUBING		
CEMENT-THICKNESS	WOOD-SIZE	LEAD	CONSTRUCTION-LOCATION	RECOVERED	SIZE	LOST
			Previous to the present plugging	762	10"	00
			Haliburton Company cemented	00	13"	315
			from 1427' to 1127'. The Revised		16	70
			plugging order is from the 1127' depth			
			to surface. Gel was run from 1127' to surface			
			and 10" casing was removed.			
			Unable to remove the 13 1/2" casing.			
			Hole filled with gel to 10 feet up surface.			
			Cement 10' to surface.			

Drillers' Names Morris Burns been plisted

Remarks

7-31-65 I hereby certify I visited the above well on this date.

[Signature]
DISTRICT WELL INSPECTOR



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION

INSPECTOR'S PLUGGING REPORT

Permit No. Mar 3-508 Well No. 1

COMPANY Wesley James P Wells ADDRESS Rollan Wells
DISTRICT Franklin COUNTY Marshall

Filling Material Used gel cement

Liner		Location	Amount	Packer	Location			
PLUGS USED AND DEPTH PLACED				BRIDGES		CASING AND TUBING		
CEMENT-THICKNESS	WOOD-SIZE	LEAD	CONSTRUCTION-LOCATION	RECOVERED	SIZE	LOST		
					762	10	00	
					00	13	3/4	
					00	16	70	

This well was originally plugged to 1427' with Bentonite cement plug from 1427' to 1157'. Well filled to 10' of surface with gel. Tried to hit 13" and failed. Cement plug to ground level. 13" 3/4 above ground level and kept open to 16". This pipe will have to be cut off until new well is completed.

Drillers Name Wesley James P Wells

Remarks

7-13-65
DATE

hereby certify I visited the above well on this date.

Bryan Thomas
DISTRICT WELL INSPECTOR



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION

INSPECTOR'S PLUGGING REPORT

Well No. 1

COMPANY W. Williams & Wells Drilling

FARM Ruffa H Wells DISTRICT Franklin COUNTY Marshall

Filling Material Used Gravel and Cement

Liner Location Amount Packer Location

PLUGS USED AND DEPTH PLACED			BRIDGES	CASING AND TUBING		
CEMENT-THICKNESS	WOOD-PILE	LEAD	CONSTRUCTION-LOCATION	RECOVERED	SIZE	LOST
This well has been completed				00	16	70
1 1/2" casing extending 3 1/2" above				00	14	3 1/2"
9 1/2" and cemented to 9 1/2"				782	10	00
8 1/2" casing removed in previous				1630	8 1/2"	303
work.						

As noted above 1 1/2" casing has filled with cement to ground level. The reason for this is that when drilling is started again this casing will have to be cut off in setting machinery to continue.

Drillers' Names Maurice Burns - Leon Pleisted
Mike Gardner Contractor

Remarks drilling on new well.
Final Inspection

8.12.65
DATE

I hereby certify I visited the above well on this date.

Bryan Shuman
DISTRICT WELL INSPECTOR

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION

AFFIDAVIT OF PLUGGING AND FILLING WELL

AFFIDAVIT SHOULD BE MADE IN TRIPPLICATE. ONE COPY MAILED TO THE DEPARTMENT, ONE COPY TO BE RETAINED BY THE WELL OPERATOR AND THE THIRD COPY (AND EXTRA COPIES IF REQUIRED) SHOULD BE MAILED TO EACH COAL OPERATOR AT THEIR RESPECTIVE ADDRESSES.

Pittsburgh Plate Glass Co
Chemical Division
 COAL OPERATOR OR OWNER
P.O. Box 191, New Martinsville, W. Va.
 ADDRESS

1st Col. James P. Wells, Ret. & Associates
 NAME OF WELL OPERATOR
1304 7th St. Moundsville, W. Va.
 COMPLETE ADDRESS

Mary C. & Wm. F. and James P. Wells
 LEASE OR PROPERTY OWNER
R.D.#2 Freston, W. Va.
 ADDRESS

Franklin District
Marshall County
 Well No. 1
R. H. Wells Heirs Farm

STATE INSPECTOR SUPERVISING PLUGGING Mr. Bryan Shuman, Wileyville, W. Va.

AFFIDAVIT

STATE OF WEST VIRGINIA
County of Marshall

H. E. Gardner and Morris Burns
being first duly sworn according to law depose and say that they are experienced in the work of plugging and filling oil and gas wells and were employed by Morris Burns well operator, and participated in the work of plugging and filling the above well, that said work was commenced on the 29 day of July, 1965, and that the well was plugged and filled in the following manner:

BAND OR ZONE RECORD FORMATION	FILLING MATERIAL	PLUGS USED SIZE & KIND	CASING	
			CAS PULLED	CAS LEFT IN
Original total well was plugged back to about 1127' and is described in the manner and way with order dtd 30 June 65. The well was plug from 1127' to the surface as follows:				
1127-14'	Bentonite (Ged)		762'-10 3/4"	
14ft to surface	Cement			315'-13 3/8"
COAL SEAMS		DESCRIPTION OF MONUMENT		
(NAME) <u>Mapletown</u>	<u>155'-161'</u>	<u>13 3/8" casing left with cap</u>		
(NAME) <u>Pittsburgh</u>	<u>250'-255'</u>			
(NAME)				
(NAME)				



and that the work of plugging and filling said well was completed on the 22nd day of July, 1965.

And further deponents saith not.

Sworn to and subscribed before me this 29 day of July, 1965.

My commission expires: Feb 20 - 68

Morris Burns
M. A. Burns
 Notary Public
 Permit No. MARS-507P

5700508P

JAMES P. WELLS, PRESIDENT

WILLIAM G. MILLER, VICE PRESIDENT

DAVID L. CALLAHAN, SECRETARY-TREASURER

Pat Wells Oil Company

P.O. BOX 267
Moundsville, West Virginia, 26041

Sept. 5, 1965

State of West Virginia
Department of Mines
Oil and Gas Division
Charleston, W.Va. 25305

Reference : Refund of Well Plugging Bond Mars. 508, Franklin District, Marshall County, R.N. Wells Heirs Farm.

Dear Sir :

The well was plugged on July 22, 1965 under the supervision of Mr. Bryan Shuman, State Inspector by Ross-Burns Inc., Waynesburg, Pa. 15370. Affidavit was notarized on July 29, 1965 and filed with your office.

Lt. Colonel James P. Wells, Est. & Associates has become the Pat Wells Oil Company, James P. Wells - President so as a check of the Pat Wells Oil Company was posted, as a bond for plugging the well, the refund check should be sent to the following address :

Pat Wells Oil Co; P.O. Box 267 Moundsville, W.Va. 26041
Attention James P. Wells, President.

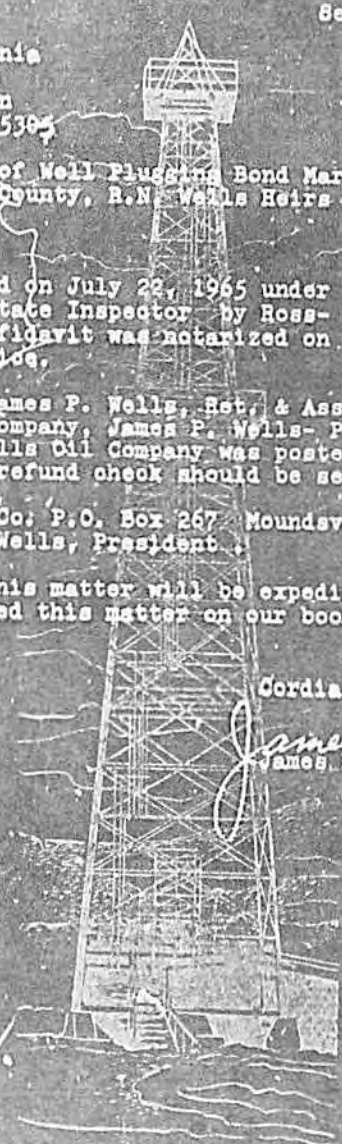
We hope that this matter will be expediated, as soon as possible so we can closed this matter on our books.

Cordially Yours,

James P. Wells
James P. Wells - President

cc Mr. *Womick*
Deputy Director
Dept. of Mines
Oil & Gas Division

Written for Release to Pressman's Office



"Gateway to the Mounds Valley"



5100508P



State of West Virginia
Department of Mines
Oil and Gas Division
Charleston 3

W. P. BISHOP
DIRECTOR

MARIE GRIFFITH
EXECUTIVE SECRETARY

GURMES WANOCK
DEPUTY DIRECTOR

September 9, 1965

Lt. Colonel James P. Wells
1304 7th Street
Moundsville, West Virginia

Dear Colonel Wells:

When releasing your \$1,000.00 cash deposit which is posted and held in trust in the Office of the State Treasurer, one of our stenographers inadvertently wrote the transmittal to release the \$1,000.00 that you posted for the revised well, or the well that you are still drilling on. She also wrote a transmittal for the well that you plugged.

We are asking you to endorse the said check in order that we may re-deposit it with the State Treasury Department until the well is completed. Please write the endorsement on the back of the check as follows: "Pay to the order of West Virginia Department of Mines, Oil and Gas Division, by James P. Wells." K&T AND ASSOC.

We are also handing you in person the \$1,000.00 check covering the plugging of the first well that you drilled which is now filled and plugged.

Very truly yours,

Gurmes Wanock
Deputy Director
OIL AND GAS DIVISION

GM/aa

Wilmington, N.C.
December 16, 1935

Mr. [Name]
[Address]
[City, State]

Dear Sir:

In conversation in regard to the
proposed drilling of a well at the site of the old well
and that this well would be used as a salt brine well,
and that this well is not going to plug above well.

It is noted that a few people interested in this project
are still interested in the project.

It is noted that the well is being drilled as the drilling has
been completed.

Very truly yours,

[Handwritten Signature]

Inspector Oil and Gas Division

Annual Report
Information furnished

Enclosed
to [Name]
[Address]

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION

- Rotary
- Spudder
- Cable Tools
- Storage
- Oil or Gas Well (RING) Salt Brine

INSPECTOR'S WELL REPORT

Permit No. Mars-508 Rev.

Company	CASING AND TUBING	USED IN DRILLING	LEFT IN WELL	PACKERS
<u>DAT Wells Oil Co</u>	Size			
Address	16	<u>167</u>	<u>167</u>	Kind of Packer
Farm <u>Rolla N Wells</u>	18	<u>287</u>	<u>287</u>	
Well No. <u>1 Revised</u>	10	<u>1601</u>	<u>1601</u>	Size of
District <u>Franklin County Marshall</u>	8 1/4			Depth set
Drilling commenced <u>11-5-64</u>	6 1/2			
Drilling completed	8 3/16			Perf. top
Date shot	8			Perf. bottom
Initial open flow	2			Perf. top
Open flow after tubing	Liners Used			Perf. bottom
Volume				
Rock pressure	CASING CEMENTED	SIZE	No. FT	Date
Oil	NAME OF SERVICE COMPANY			
Fresh water	GOAL WAS ENCOUNTERED AT <u>125 FEET 60" INCHES</u>			
Salt water	<u>235 FEET 36" INCHES</u> FEET INCHES			
	<u>140 1375-1575</u> FEET INCHES FEET INCHES			

Drillers' Names C. W. Stone Spring Tom Bradley J. McElroy

Remarks: J. S. Daugherty Taylor and Cohen

Final Impermeable
To be produced as a salt brine well

12. 16. 65
DATE

Bryan Shuman
DISTRICT WELL INSPECTOR

51005081

★ CAN NOT FIND DATE OF DOCUMENT

PROPOSED MANNER OF PLUGGING AND FILLING WELL

(REQUIRED BY RULES AND REGULATIONS)

**WEST VIRGINIA DEPARTMENT OF MINES
OIL AND GAS DIVISION**

WORK ORDER

Well to be plugged and filled as follows:

In accordance with the laws and regulations of the State of West Virginia Department of Mines, Oil and Gas Division

Present hole was drilled to 3023 feet, total depth. The hole was lost by approximately 293 feet of 8 5/8" casing being stuck at 1427 feet of depth to 1630 feet of depth, which casing could not be recovered from hole. Subsequent to the loss of this casing the hole was cemented by the Halliburton Company from 1427 feet of depth upward for approximately 300 feet to a depth of about 1127 feet.

There will remain in the abandoned hole 70 feet of 16" conductor pipe, 315 feet of 14" casing (to 60 feet below the coal) and 762 feet of 10 3/4" casing.

It is proposed to plug the hole from the top of the cement plug (about 1127 feet of depth) to the bottom of the 10 3/4" casing (762 feet of depth) by having the Halliburton Company do the plugging with GEL and cement plugs in pay zones under the direction and supervision of the Department of Mines Oil and Gas Division Inspector.

To the Department of Mines
Coal Owner or Operator,
Lease or Property Owner.

Gentlemen:

This "work order" is submitted for your approval and concurrence and unless notified of your disapproval or non-concurrence, the undersigned will proceed with the plugging and filling of said well in the above described manner on the date inspector is notified after permit is issued.

Very truly yours,

James R. Wells
Well Operator

No objections have been filed by the coal owner or coal operator, or any available adjacent lease or property owners or interested by the Department of Mines to the manner herein described for the plugging and filling of the well above mentioned. Therefore, the same is hereby approved this

4 day of *July* 19*47*

DEPARTMENT OF MINES
Oil and Gas Division

By: *Gorman Blawie*

NOTE: This "work order" shall be filed in triplicate, one copy for the files of the Department of Mines; one to be approved by permittee and returned to the well operator as his authority for plugging said well; and one for the well inspector.

07/11/2014

★ CAN NOT FIND DATE OF DOCUMENT

5100508P

Form 001



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
BUREAU OF OIL AND GAS DIVISION
NOTICE OF INTENTION TO PLUG AND ABANDON WELL
(REQUIRED BY SECTION 9, ARTICLE 4, CHAPTER 22 OF THE CODE)

To THE DEPARTMENT OF MINES,
Charleston, W. Va.

Name Coal Operator Lt. Col. James P. Wells, Ret. and Associates
Name of Well Operator

Pittsburg Plate Glass Co.
Address 1004 1/2th Street - Moundsville, W. Va.
Complete Address

Chemical Division
Coal Owner Mary C. Ma. P. and James P. Wells
Date Franklin
District Marshall
County Marshall

Mary C. Ma. P. and James P. Wells
Lease or Property Owner W. N. Wells
Well No. 889-3674

B. D. S. 2, Frazier, W. Va.
Inspector to be notified Bryan
Telephone Number 889-3674

54 HOURS IN ADVANCE OF PLUGGING
Gentlemen: Mary C. Ma. P. and James P. Wells
The undersigned well operator is about to abandon the above described well and will commence

the work of plugging and abandoning said well on the date inspector is notified (which date shall not be less than five days after the day on which this notice so mailed is received, or in due course should be received by the Department of Mines).

This notice is given 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 represented the undersigned will proceed on that date, or shortly thereafter, to plug and fill said well in the manner required by Section 10, Article 4, Chapter 22 of the Code and given in detail on the reverse side of this notice, in "Work Order."

This notice is being mailed by registered mail to each of you at the above addresses on the above date.

Very truly yours,
James P. Wells
Well Operator

NOTE: Upon the abandonment of any well drilled prior to June 1, 1929, a plat prepared by a registered engineer, shall be filed with THREE COPIES OF APPLICATION, (OG-9) AND "WORK ORDER" AND TWO COPIES OF THE WELL RECORD, (OG-10). The map must show the district and county in which the tract of land is located, the name and acreage of same, the name or names of the owners and names of adjacent tracts and the location of the well to be abandoned, determined by survey with the courses and distances of such well from two permanent points or landmarks on said tract.

NOTE: In case plugging is not commenced within four months from the date of permit, same shall expire and be of no further force or effect.

NOTE: PERMIT IS NOT TRANSFERABLE.

WADA - 208-P
Permit Number

07/11/2014

WW-4A
Revised 6-07

1) Date: 6/02/14
2) Operator's Well Number
Pat Wells #1-R
3) API Well No.: 47 - 051 - 0508

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

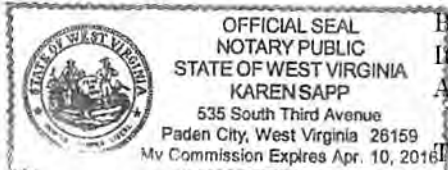
4) Surface Owner(s) to be served:	5) (a) Coal Operator
(a) Name <u>Eagle Natrium, LLC/ Axiall Corporation</u>	Name <u>(Same)</u>
Address <u>P.O. Box 191</u> <i>W</i>	Address _____
<u>New Martinsville, WV 26155</u>	_____
(b) Name _____	(b) Coal Owner(s) with Declaration
Address _____	Name _____
_____	Address _____
(c) Name _____	Name _____
Address _____	Address _____
_____	_____
6) Inspector	(c) Coal Lessee with Declaration
Address _____	Name _____
_____	Address _____
Telephone _____	_____

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 <u>Eagle Natrium, LLC/ Axiall Corporation</u>
	By: <u>[Signature]</u>
	Its: <u>Agent</u>
	Address <u>P.O. Box 191</u>
	<u>New Martinsville, WV 26155</u>
Telephone <u>304-455-2200, ext. 3310</u>	

Subscribed and sworn before me this 2nd day of June, 2014
Karen App Notary Public JUN 09 2014
My Commission Expires April 10, 2016

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.

07/11/2014

SURFACE OWNER WAIVER

Operator's Well
Number

Pats Well #1-R

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.

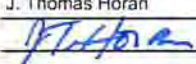
VOLUNTARY STATEMENT OF NO OBJECTION

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,

	Date	Name	Eagle Natrium, LLC/ Natrium Corp.
Signature		By	J. Thomas Horan
		Its	
		Signature	Date
			07/11/2014

WW-4B

API No.	<u>47-051-0508</u>
Farm Name	<u>Eagle Natrium, LLC/ Axiall</u>
Well No.	<u>Pats Well #1-R</u>

**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 X / 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: 6/2/14

Eagle Natrium, LLC/ Axiall Corporation
 By: [Signature]
 Its Agent

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 Eagle Natrium, LLC OP Code _____

Watershed Ohio River Quadrangle New Martinsville, WV

Elevation 631 ft. County Marshall District Franklin

Description of anticipated Pit Waste: N/A

Will a synthetic liner be used in the pit? N/A

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 N/A)

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 J. Thomas Horan

Company Official (Typed Name) J. Thomas Horan

Company Official Title Manager, Environmental Control

Subscribed and sworn before me this 2nd day of June, 2014

Karen App

Notary Public

My commission expires April 10, 2016

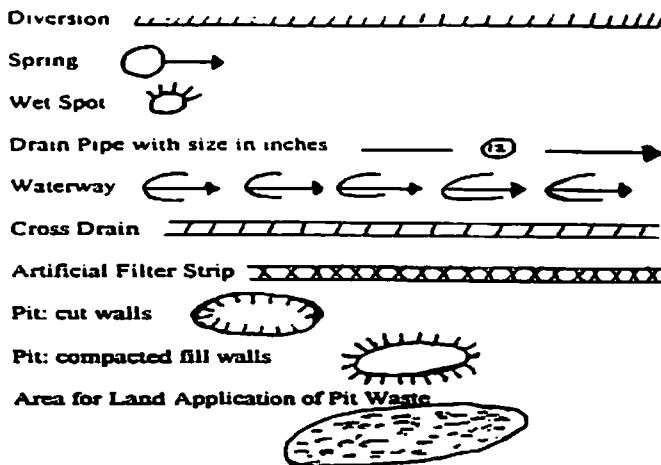
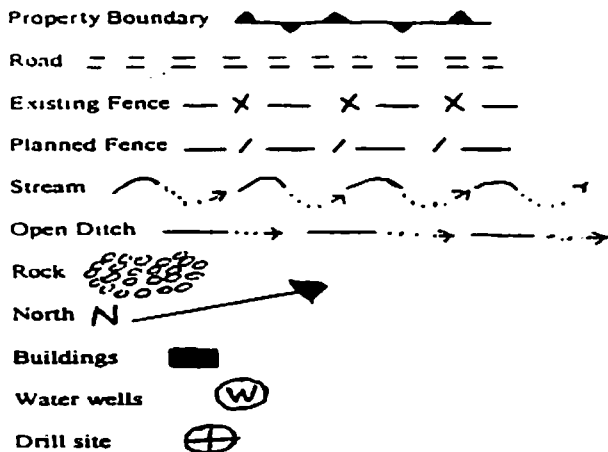
RECEIVED
Office of Oil and Gas

JUN 09 2014



07/11/2014

LEGEND



Proposed Revegetation Treatment: Acres Disturbed <1 acre Prevegetation pH _____

Lime _____ Tons/acre or to correct to pH _____

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

Mulch _____ Tons/acre

Seed Mixtures

Seed Type	Area I lbs/acre	Seed Type	Area II lbs/acre
N/A			

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

Photocopied section of involved 7.5' topographic sheet.
(Attached Dwg. #49A-0435)

Plan Approved by: _____

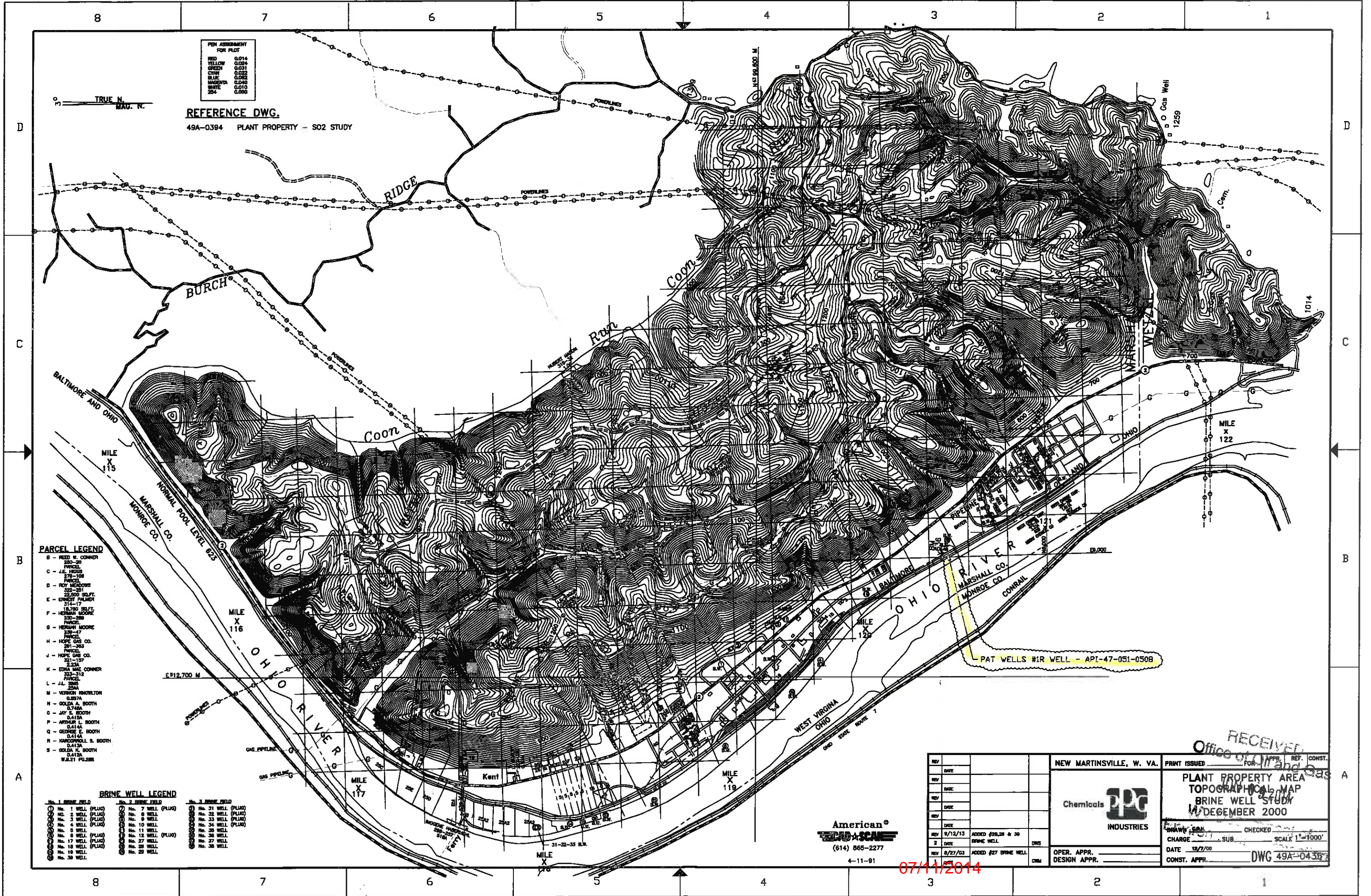
Comments: _____

Title: _____

Date: _____

Field Reviewed? () Yes () No

RECEIVED
Office of Oil and Gas
JUN 09 2014
WV Department of
Environmental Protection
07/11/2014



PER ASSIGNMENT FOR PLOT

RED	0.014
YELLOW	0.024
GREEN	0.031
CYAN	0.022
BLUE	0.082
MAGENTA	0.040
WHITE	0.010
254	0.000

REFERENCE DWG.
49A-0394 PLANT PROPERTY - S02 STUDY

PARCEL LEGEND

- B - REED W. CORNER 230-30 PARCEL
- C - J.E. HOGGS 278-108 PARCEL
- D - ROY McEWERS 302-201 PARCEL
- E - ERNEST PALMER 314-17 PARCEL
- F - HERMAN MOORE 230-282 PARCEL
- G - HERMAN MOORE 230-17 PARCEL
- H - HOPE GAS CO. 291-383 PARCEL
- J - HOPE GAS CO. 321-157 PARCEL
- K - DONA MAE CORNER 323-312 PARCEL
- L - J.L. SMITH 254 PARCEL
- M - VERNON HOWLTON 0.8374 PARCEL
- N - GOLDA A. BOOTH 0.7484 PARCEL
- O - JAY S. BOOTH 0.4154 PARCEL
- P - ARTHUR L. BOOTH 0.4144 PARCEL
- Q - GEORGE E. BOOTH 0.4144 PARCEL
- R - MARCOFFELL S. BOOTH 0.4134 PARCEL
- S - GOLDA K. BOOTH 0.4134 PARCEL

BRINE WELL LEGEND

- | | | |
|--------------------|--------------------|--------------------|
| No. 1 WELL (PLUG) | No. 7 WELL (PLUG) | No. 31 WELL (PLUG) |
| No. 2 WELL (PLUG) | No. 8 WELL | No. 32 WELL (PLUG) |
| No. 3 WELL (PLUG) | No. 9 WELL | No. 33 WELL (PLUG) |
| No. 4 WELL (PLUG) | No. 10 WELL | No. 34 WELL (PLUG) |
| No. 5 WELL (PLUG) | No. 11 WELL | No. 35 WELL (PLUG) |
| No. 6 WELL (PLUG) | No. 12 WELL (PLUG) | No. 36 WELL (PLUG) |
| No. 7 WELL (PLUG) | No. 13 WELL | No. 37 WELL (PLUG) |
| No. 8 WELL (PLUG) | No. 14 WELL | No. 38 WELL (PLUG) |
| No. 9 WELL (PLUG) | No. 15 WELL | No. 39 WELL (PLUG) |
| No. 10 WELL (PLUG) | No. 16 WELL | No. 40 WELL (PLUG) |
| No. 11 WELL (PLUG) | No. 17 WELL (PLUG) | No. 41 WELL (PLUG) |
| No. 12 WELL (PLUG) | No. 18 WELL (PLUG) | No. 42 WELL (PLUG) |
| No. 13 WELL (PLUG) | No. 19 WELL (PLUG) | No. 43 WELL (PLUG) |
| No. 14 WELL (PLUG) | No. 20 WELL (PLUG) | No. 44 WELL (PLUG) |
| No. 15 WELL (PLUG) | No. 21 WELL (PLUG) | No. 45 WELL (PLUG) |
| No. 16 WELL (PLUG) | No. 22 WELL (PLUG) | No. 46 WELL (PLUG) |
| No. 17 WELL (PLUG) | No. 23 WELL (PLUG) | No. 47 WELL (PLUG) |
| No. 18 WELL (PLUG) | No. 24 WELL (PLUG) | No. 48 WELL (PLUG) |
| No. 19 WELL (PLUG) | No. 25 WELL (PLUG) | No. 49 WELL (PLUG) |
| No. 20 WELL (PLUG) | No. 26 WELL (PLUG) | No. 50 WELL (PLUG) |
| No. 21 WELL (PLUG) | No. 27 WELL (PLUG) | No. 51 WELL (PLUG) |
| No. 22 WELL (PLUG) | No. 28 WELL (PLUG) | No. 52 WELL (PLUG) |
| No. 23 WELL (PLUG) | No. 29 WELL (PLUG) | No. 53 WELL (PLUG) |
| No. 24 WELL (PLUG) | No. 30 WELL (PLUG) | No. 54 WELL (PLUG) |
| No. 25 WELL (PLUG) | No. 31 WELL (PLUG) | No. 55 WELL (PLUG) |
| No. 26 WELL (PLUG) | No. 32 WELL (PLUG) | No. 56 WELL (PLUG) |
| No. 27 WELL (PLUG) | No. 33 WELL (PLUG) | No. 57 WELL (PLUG) |
| No. 28 WELL (PLUG) | No. 34 WELL (PLUG) | No. 58 WELL (PLUG) |
| No. 29 WELL (PLUG) | No. 35 WELL (PLUG) | No. 59 WELL (PLUG) |
| No. 30 WELL (PLUG) | No. 36 WELL (PLUG) | No. 60 WELL (PLUG) |

REV	DATE	DESCRIPTION	APP'D.
1	8/12/13	ADDED #28, 29 & 30 BRINE WELL	DWS
2	8/27/03	ADDED #27 BRINE WELL	CMW

NEW MARTINSVILLE, W. VA. PRINT ISSUED

OPER. APPR. DESIGN APPR.

RECEIVED
Office of Air and Water Quality

PLANT PROPERTY AREA TOPOGRAPHICAL MAP BRINE WELL STUDY
DECEMBER 2000

DRAWN: SRK CHECKED: _____ SCALE 1"=1000'
CHARGE: _____ SUB: _____ DATE: 12/7/00
CONST. APPR. _____ DWG 49A-0439

American
DPA-SCAN
(614) 865-2277
4-11-81

07/11/2014



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

API: 47-051-0508 WELL NO.: Pats Well #1-R

FARM NAME: Eagle Natrium, LLC/ Axiall Corporation

RESPONSIBLE PARTY NAME: Eagle Natrium, LLC/ Axiall Corporation

COUNTY: Marshall DISTRICT: Franklin

QUADRANGLE: New Martinsville

SURFACE OWNER: Eagle Natrium, LLC/ Axiall Corporation

ROYALTY OWNER: Eagle Natrium, LLC/ Axiall Corporaton

UTM GPS NORTHING: 4,398,051.16

UTM GPS EASTING: 513,815.49 GPS ELEVATION: 631 ft.

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 X: 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.

Signature *[Handwritten Signature]*
6/2/14 Date

 Manager, Environmental Control
Title