

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

August 21, 2015

WELL WORK PLUGGING PERMIT

Plugging

This permit, API Well Number: 47-4103917, issued to MURVIN & MEIER OIL CO., 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 penalities 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.

Chief

Operator's Well No: J. R. JONES 1

Farm Name: U.S. ARMY CORP. OF ENG.

API Well Number: 47-4103917 Permit Type: Plugging

Date Issued: 08/21/2015

WW-4B Rev. 2/01 1; Date July 28 , 2015 2) Operator's Well No. J.R. Jonst#1 3) API Well No. 47-41-03917

STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION

	OFFICE OF	OIL AND GAS					
	APPLICATION FOR A PER	MIT TO PLUG AND ABANDON					
4)	Well Type: Oil/ GasX/ Liquid	injection / Waste disposal /					
	(If "Gas, Production or Unc	derground storage) Deep / Shallow					
5)	Location: Elevation 1256	Watershed					
	District Skin Creek	County Lewis Quadrangle Ronoke					
	increase and the contract of the contract of						
5)	Well Operator . Murvin & Meier Oi	17) Dasignated Agent P. Nathan Boles, Jr.					
	Address _P:O.Box 396	Address 500 Quarrier Street					
	Olney, ILL. 62450	Charleston, <3. 2530					
8)	Cil and Gas Inspector to be notified	9) Pilipadas Gastina					
	Name Barry Stollings	Name <u>Duckworth Well</u> service					
	Address_ 28 Conifer Drive	Address P. O. Box 6872					
	Address 28 Conifer Drive Bridgeport, WV.26330	Charleston, WV. 25362					
-		Management of the Control of the Con					
	Cement 4434'- 4334' Cement 2100' - 2000' Est. 4½ (Cement 1386' - 1206' Elv. Cement 100'- 0'						
	Gel between all plugs.	Received					
		2015					
	Pull all free pipe.	JUL 3 D					
		and Gas					
		Office of Oil and Gas WV Dept. of Environmental Protes					
		uni Dept. of					
Notif	fication must be given to the district oil can commence.	and gas inspector 24 hours before permitted					
	our commerce.	The control of the co					
		0.00					
Work	order approved by inspector Haus	Date 7-30-15					
		7 50 75					

State of West Virginia DEPARTMENT OF ENERGY Division of Oil and Gas

Well Operator's Report of Well Work

Farm name: U.S. ARMY CORP. OF ENG. Operator Well No.: J.R. JONES 1 Quadrangle: ROANOKE Elevation: 1256.00 LOCATION: SKIN CREEK County: LEWIS District: 10540 Feet South of 38 Deg. 57Min. 30 Sec. 11030 Feet West of 80 Deg. 22 Min. 30 Sec. Latitude: Longitude Company: MURVIN OIL Cement P. O. BOX 297 OLNEY, IL 62450-0000 Left Used in Casing Fill Up in Well|Cu. Ft. Tubing Drilling Agent: P. NATHAN BOWLES, JR. Size Inspector: STEVE CASEY 9 5/8" 737 737 306.8 04/03/89 Permit Issued: Well work Commenced: July 25, 1989 Well work Completed: 4 5" 4478 4478 174.2 Verbal Plugging Permission granted on: Rotary x Cable Total Depth (feet) 4539 Rig Fresh water depths (ft) 70', 320 Salt water depths (ft) 1901 Is coal being mined in area (Y/N)? N Coal Depths (ft):_ DAYISHON OF OIL & GAS OPEN PLOW DATA DEPARTMENT OF ENERGY Pay zone depth (ft)4377' to 4384' tial open flow --- Bb1/d Benson Producing formation MCF/d Oil: Initial open flow _---Gas: Initial open flow show Final open flow Bb1/d Final open flow 119 MCF/d~ Time of open flow between initial and final tests Hours psig (surface pressure) after 48 Hours Static rock Pressure 960 Pay zone depth (ft)
MCF/d Oil: Initial open flow Second producing formation BP1/9 Gas: Initial open flow_ MCF/d Bbl/d Final open flow Final open flow_ Time of open flow between initial and final tests Hours psig (surface pressure) after Hours Static rock Pressure NOTE: ON BACK OF THIS FORM PUT THE FOLLOWING: 1). DETAILS OF PERFORATED & FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2). THE WELL IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF ALL FORMATIONS, U INTERVALS, FRACTURING OR STIMULATING, LOG WHICH INCLUDING COAL ENCOUNTERED BY THE WELLBORE. 7 Ga Por: MURVIN OIL CORP Vice-President Date: September 6, 1989

Received

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Office of Oil and Gas
WV Dept. of Environmental Protection

8-22-89: Perforated Benson formation from 4377' to 4384' with 14 holes using hollow carrier gun.

8-29-89: Fractured Benson perfs with 500 gals. 15% HCL, to 35 BBLS water, 76 MSCF $\rm N_2$, and 40,000 lbs 20/40 sand.

WELL LOG

Formation	Тор	Bottom
Top Soil	0	10
Red Rock	10	20
Shale	20	60
Sandy Shale	60	110
Shale	110	170
Sand	170	190
Shale	190	210
Sand	210	235
Shale	235	255
Red Rock INCORPORT	255	260
Shale NEGELVE	260	425
Red Rock SEP 08 1989	425	430
Shale DIVISION OF OIL & GAS DEPARTMENT OF ENERGY	430	640
Sandy Shale	640	660
Shale	660	720
Sand	720	737
Shale	737	780
Sand	780	884
Shale	884	1007
Sandy Shale	1007	1109
Shale	1109	1195
Sand	1195	1292

WELL LOG (CONT.)

WELL LOG (CONT.)						
Formation		Top		Bottom		
Shale		1292		1386		
Sand		1386		1410		H
Shale		1410		1524		
Sandy Shale		1524		160.		
Shale		1609		1638		
Big Lime		1638		1754		
Injun	•	1754		1830	- 3	
Shale		1830		1923		_
Gantz		1923		2010		
Shale		2010		2053		
50 Foot Sand		2053		2067		
Shale		2067		2254		
4th Sand		2254		2288		
Shale		2288	•	2384	N. E.G.	
5th Sand		2384	1	2418	MECEIN	3
Shale		2418		2752	SEP 08 1989	3
Warren		2752		2805	DIVISION OF OIL & G DEPARTMENT OF ENE	AS
Shale		2805		3072	TEL ARTIMENT OF ENE	RGY
Speechly		3072		3097		
Shale		3097		3394		
Balltown		3394		3427		
Shale		3427		4366		- 40
Benson		4366		4409		
Shale		4409		4539	TD	
						1000

LEW. 3917

FHONE NO. : 384 343 7142 FROM : DUCKLIORTH WELL SERVICE Jul. 29 2015 10:419M PZ 07/22/2016 10:11 #848 P. 006/813 WW-AA 1) Date: Revised 9-07 D Open ---- Wall pt. S) API Wall No. 47 -47 DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS NOTICE OF APPLICATION TO PLUG AND ABANDON A WELL . 03917 4) Surface Owner(a) to be served:

(a) Name U.S. Army Corp. of Eng. Name Address Real Estate Division Address 1000 Liberty Avenue (b) Name Dittaburgh, Ponnay Lyan () and Owner(a) with Declaration Address Name (c) Name Name Address Address 6) Inspector Barry Stolling (c) Coal Lawers wish Declaration Arideass 28 Conifer Drive Pigrae But deport WV 26330 Address Telephone TO THE PERSONS NAMED ABOVE: You should have received this Form and the following documents: (1) The application to Plus and Abandon a Well on Form WW-48, which sale out the purios involved in the work and describes the wall in and the plugging work order and describes the WW-6.

(2) The plat (surveyor's map) aboving the well location on Form WW-6. The reason you reserved these decembers is that you have rights regarding the application which are automatical in the increasions on the records which Take notice that under Chapter 12.6 of the libest Vinge is Code, the undersigned well common proposes to fire or has filed this Notice and Application and acceptablying decommon this to be filed this Notice and Application and Enderson, which request to the well at the lessted standard and confirmed and deplication a Well Operator Musician & Collary Oil Co. CEID BASE Ite: 5 Bov297 Address Olney Ill

Telephone 304-347-1-13-Subscribed and sworn before me this

Notary Public

Oil and Gas Privacy Notice

The Office of Off and One processes your personal inferenties, such as manne, address and pieces member, as a part of our regulatory decise. These personal inferentials may be disclassed to other flats appropriate artificity parties in the second course of business or as mended to comply with statisticity or regulatory requirements, including Processing of the formation Act requests. Our effect appropriately source your personal information, if you have any questions about our use of your personal extraord College at Appropriately source DEF's Chief Privacy Offices at Appropriately source.



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TRICIAL SEAL STARY PUBLIC L ECLEN BUCHKO · Central Avenue redeston, WV 25303 inins Aug. 11, 2015

Received

JUL 3 0 2015

Office of Oil and Gas WV Dept. of Environmental Protection PHONE NO. : 304 343 7142 Jul. 29 2015 10:41AM P1

WW.9 (2/15)

API Number 47 - 41 (13917)
Operator's Well No.17 - 170

DEPARTMENT OF ENVIRONMENTAL PROTECTION OFFICE OF OIL AND GAS	
FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN	
Operior Name Murvin; & (Meier, Oil Co. OF Code	
WARREST (HLC 10)	-
DO YOU SELECTIONS CHOCK (DAY 3,000 DOIS OF WHIST TO COMPLISE the SAME AND ASSESSMENT OF THE PARTY OF THE PART	-
Will a pik be mad? Yes No 3	
If so, plante departies anticipated pit wante: Water& Gel	
Will a symbolic lines be used in the pis? Yes No No If so, what policy	-
Proposed Disposal Method For Treated Fit Waste:	
Land Application	
Underground Injection (UIC Permit Murabay)
Underground Injection (UIC Permit Murabas Reuse (at API Number Off file Disposal (Supply form WW-9 for dissocial) Other (Explain))
Other (Broblein 11 A)	
Will stosed loop system be used? If so, describe:	
Drilling medium anticipated for this well (vertical and horizontal stake, trustocater, oil based, etc.	-
-If off besed, what type? Symbolic, petroleum, etc	_
Additives to be used in drilling modium?	-
Delli suttings disposa' method? Leave in pit, tanofill, removed a likts, esc.	-
-if left in pit and plan to solidify what medium will be used? (comers, ilms, asseduct)	-
Landfill or effeite menschermin number?	_
West Virginia solid waste facility. The notice shall be provided which 24 hours of rejection and the permissis shall also disable where it was properly disposed, and spread the disable where it was properly disposed, and spread to the isome and considerate of the GENERAL WATER FOLLITION PERMIT	
on August 1, 2005, by the Office of Oli and Gas of the West Virginia Department of Environmental Protection. I understand provisions of the permit are embersable by low. Violations of any term or condition of the general permit and/or other appears of Environment and or or of the section of the general permit and/or other appears of the section and the section and the section and section and the section and section	that the plicable on this
Company Cofficial Signature x P North Bay.	
Company Official (Types Name) P. Nathan Bowles JR.	
Company Official Trite (1451) 7 m J Agent	•
Subsectional and awaren before one this OCHE day of CHILL 20/5	
0 9/11/12	
Notary Public	
My constitution expires 1+150, 11, 2015	
Andreas and the same and the same and and and and and	
free in the control of the control o	
FIGURESAL TARY PUBLIC F. F. LEN BUCHKO Central Avenue Plaston, WV 25303	100
TARY PUBLIC	10,
1. FLUEN BUCHIKO Central Avenue	
2 daston, WV 26303	ant

Office of Oil and Gas

Office of Eurice (Inches)

Plan App

Fixed Reviewed?

inspector

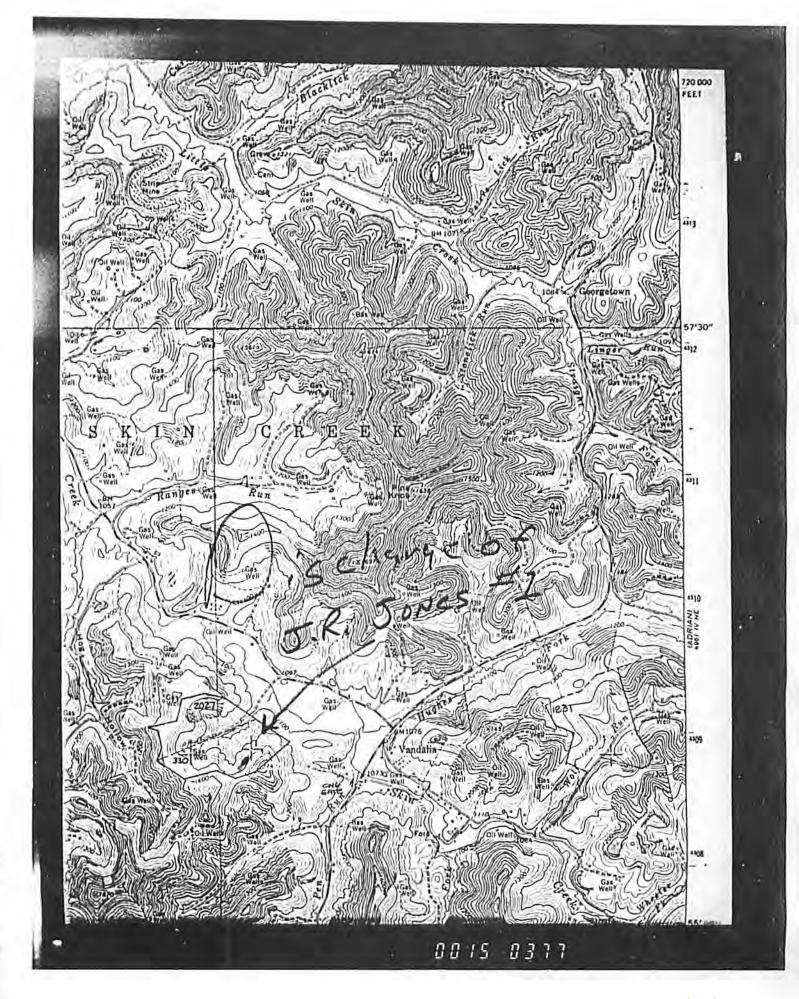
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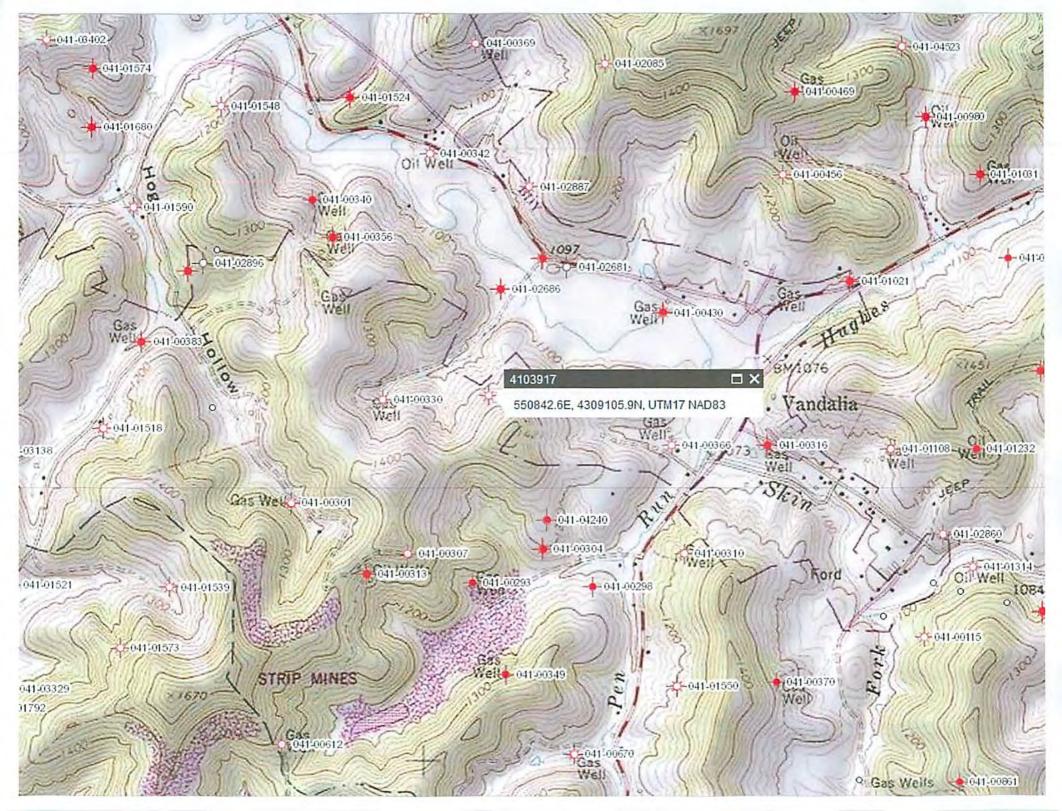
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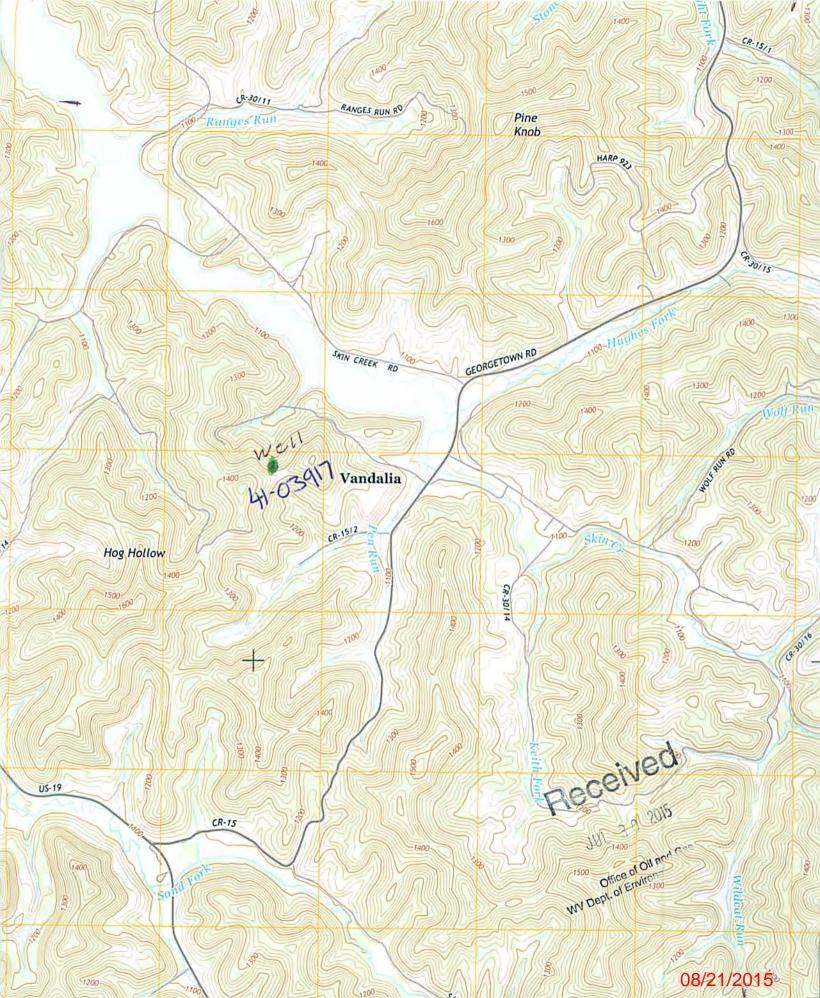
7-30-15

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Office of Oil and Gas WV Dept. of Environmental Protection







West Virginia Secretary of State — Online Data Services

Business and Licensing

Online Data Services Help

Business & Licensing

Business Organization Search

Back To Top

Matching records found: 1. Please note that the results are broken into four results types: Org Name, Doing Business As, Name Change and Name Registrations/Reservations. You may use the following four links to see the results for each type.

Organization	Result	s						
Organization Name	Org Id	Org Type	Effective Date	Established Date	Termination Date	Termination Reason	Charter	Class
MURVIN & MEIER OIL CO.	145286	С	10/7/1992				Foreign	Profit
Organization Name	Org Id	Org Type	Effective Date	Established Date	Termination Date	Termination Reason	Charter	Class

DBA Results								
Organization Name	Org ld	Org Type	Effective Date	Established Date	Termination Date	Termination Reason	Charter	Class
No results found.	_							
Organization Name	Org ld	Org Type	Effective Date	Established Date	Termination Date	Termination Reason	Charter	Class

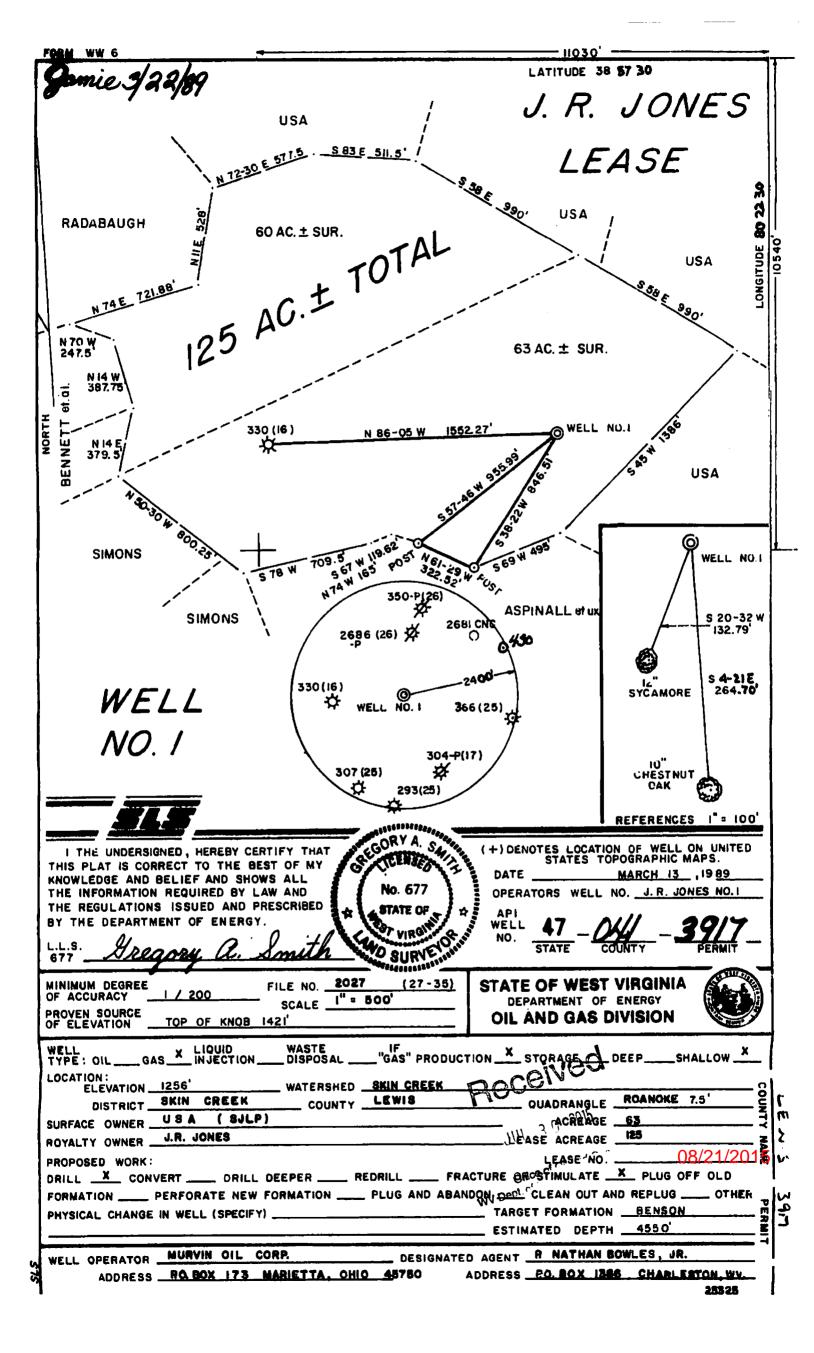
Name Change R	esults	i						
Organization Name	Org id	Org Type	Effective Date	Established Date	Termination Date	Termination Reason	Charter	Class
No results found.	-							
Organization Name	Org Id	Org Type	Effective Date	Established Date	Termination Date	Termination Reason	Charter	Class

Registration/I	Reservat	ion R	esuits					
Organization Name	NRG/NRS	Org Type	Effective Date	Established Date	Termination Date	Termination Reason	Charter	Class
No results found.								
Organization Name	NRG/NRS Id	Org Type	Effective Date	Established Date	Termination Date	Termination Reason	Charter	Class

^{*}NOTICE: The West Virginia Secretary of State's Office makes every reasonable effort to ensure the accuracy of information. However, we make no representation or warranty as to the correctness or completeness of the information.

Friday, July 31, 2015 — 12:50 PM

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WW-7 8-30-06



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

API: 47 - 41 - 03917 WELL NO .: J.R. Tones -1
FARM NAME: US 1ALMY Corp. of ENG.
RESPONSIBLE PARTY NAME: Qqry [-1///
COUNTY: Lewis DISTRICT: SKI'W Creek
QUADRANGLE: ROANOKe
SURFACE OWNER: US ALMY COLD, of ENG.
ROYALTY OWNER: J. R. Janes
UTM GPS NORTHING: 4309105.9
UTM GPS EASTING: 550342.6 GPS ELEVATION: 1254
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.
Signature Date Title Date 2015