

west virginia department of environmental protection

Office of Oil and Gas 601 57th Street, S.E. Charleston, WV 25304 (304) 926-0450 fax: (304) 926-0452 Jim Justice , Governor Austin Caperton , Cabinet Secretary www.dep.wv.gov

Monday, December 18, 2017 WELL WORK PERMIT Not Available / Plugging

ARSENAL RESOURCES LLC 6031 WALLACE ROAD EXTENSION SUITE 603

WEXFORD, PA 15090

Re:

Permit approval for OAK MOUND 6

47-033-04282-00-00

This well work permit 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 any additional specific conditions and provisions outlined in the pages attached hereto. Notification shall be given by the operator to the Oil and Gas Inspector at least 24 hours prior to the construction of roads, locations, and/or pits for any permitted work. In addition, the well operator shall notify the same inspector 24 hours before any actual well work is commenced and prior to running and cementing casing. Spills or emergency discharges must be promptly reported by the operator to 1-800-642-3074 and to the Oil and Gas Inspector.

Please be advised that form WR-35, Well Operators Report of Well Work is to be submitted to this office within 90 days of completion of permitted well work, as should form WR-34 Discharge Monitoring Report within 30 days of discharge of pits, if applicable. Failure to abide by all statutory and regulatory provisions governing all duties and operations hereunder may result in suspension or revocation of this permit and, in addition, may result in civil and/or criminal penalties being imposed upon the operators.

Per 35 CSR 4-5.2.g this permit will expire in two (2) years from the issue date unless permitted well work is commenced. If there are any questions, please feel free to contact me at (304) 926-0450.

James A. Martin

Chief

Operator's Well Number: OAK MOUND 6 Farm Name: N. GOFF ESTATE HEIRS U.S. WELL NUMBER: 47-033-04282-00-00

Not Available / Plugging

Date Issued: 12/18/2017

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.
- 4. This well is under a consent order and must be plugged under the terms of that agreement.

WW-4B Rev. 2/01

1) Date August	28 , 20 17
2) Operator's	
Well No. Oak	mound #1
3) API Well No.	47-033 -04292

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

	OFFICE OF	OIL AND GAS
	APPLICATION FOR A PERI	MIT TO PLUG AND ABANDON
4)	Well Type: Oil X / Gas X / Liquid (If "Gas, Production or Und	d injection/ Waste disposal/ derground storage) Deep/ Shallow
5)		Watershed Branch of West Fork River County Harrison Quadrangle Wolfe Summit 7.5
6)	Well Operator Address Address Address Arsenal Resources 6031 Wallace Road Ext. Suite 300 Wexford, PA 15090	7) Designated Agent Bill Veigel Address 65 Professional Place Suite 200 Bridgeport, WV 26330
8)	Oil and Gas Inspector to be notified Name Sam Ward Address P.O Box 2327	9) Plugging Contractor Name Patchwork Oil & Gas, LLC Address PO Box 168
	Buckhannon, WV 26201	Davisville, WV 26142
tease	Plugging procedures attached No r	ecords
		RECEIVED Office of Oil and Gas
		NOV 0 9 2017
		WV Department of Environmental Protection
Notif	fication must be given to the district oil can commence.	and gas inspector 24 hours before permitted
Work	order approved by inspector	De 11/7/2017

WW-4B Work Order Attachment

47-033-04282 Oak Mound #6

OPEN HOLE

- 1. MIRU Service rig, pull rods and tubing out of hole (if any), clean hole to TD 2305
- 2. Run 2 3/8 8rd tubing to a minimum of 50' below each producing pay zone, pump and set cement plug using Class A cement to a minimum of 50' above the producing pay zone, pump 6% gel ahead of cement. (Minimum 100' bottom plug)
- 3. Tag cement top to ensure plug meets minimum, add cement if necessary. Find free point on casing, cut and remove casing and pull out of hole.
- 4. Run 2 3/8 8rd tubing to a minimum of 50' below the cut casing. Pump and set cement plug using Class A Cement to a minimum of 50 above cut casing, pump 6% gel ahead of cement. (Minimum of 100' casing cut plug)
- 5. Tag cement top to ensure plug meets minimum, add cement if necessary.
- 6. Pull and set 2 3/8 8rd tubing a minimum of 50' below elevation depth. Pump and set cement plug with Class A Cement to a minimum of 50' above elevation depth, pump 6% gel ahead of cement. (Minimum 100' elevation plug)
- 7. Tag cement top to ensure plug meets minimum, add cement if necessary.
- 8. Pull and set 2 3/8 8rd tubing to a minimum of 100° below surface, pump Class A cement to surface. (Minimum 100° surface and fresh water strata plug) No record, set 300° Surface Plug.
- 9. Erect 3' x 6" with identification and fill with cement.

11/7/2017

- 10. RDMO service rig, all surface equipment and disposals.
- 11. Reclaim location and lease road.
- 12. Prepare release forms.

RECEIVED Office of Oil and Gas

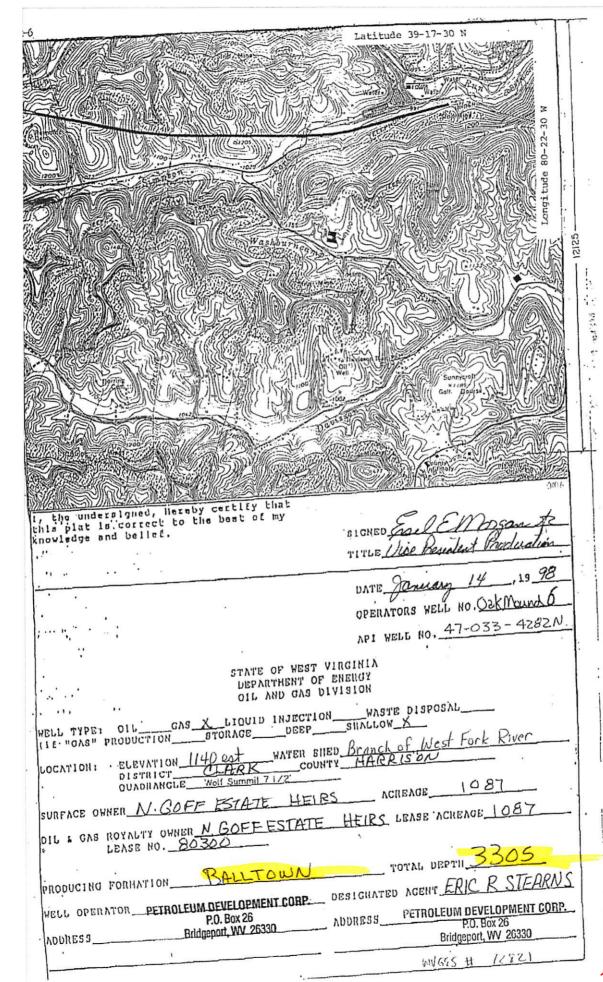
NOV 0 9 2017

MV Department of Environmental Protection

Note: 100' cement plug across any perforations or pay zones.

- · MUST COVER ALL 20" OR GREATER COAL SEAMS WITH CLASS A CEMENT WITH NO MORE THAN 3% CaCl2 AND NO OTHER ADDITIVES.
- . COO GEL SPACEAS BETWEEN ALL CEMENT PLUGS
- CEMENT PLUGS MUST BE A MINIMUM OF LOO FEET,

& WW



RECEIVED Office of Oil and Gas

NOV 0 9 2017

WV Department of Environmental Protection

8/21/2017

WVGES O&G Record Reporting System

County Code Translations Permit-Numbering Series 'Pipeline-Plus" New Usage Notes Contact Information Table Descriptions **WVGES Main** Disclaimer

Report Time: Monday, August 21, 2017 2:03:23 PM

County = 33 Permit = 04282

Well:

Btm Hole Loc Plugging P Sample Stratigraphy Production

API COUNTY PERMIT TAX_DISTRICT 4703304282 Harrison 4282 unknown View Map Location Information:

WV Geological & Economic Survey:

QUAD_75 QUAD_15 LAT_DD LON_DD UTME UTMN unknown unknown

There is no Bottom Hole Location data for this well

There is no Owner/Completion data for this well

There is no Owner/Completion data for this well

There is no Pay data for this well

Production	Production Gas Information: (Volume	Volumes in Mcf)													
API	PRODUCING OPERATOR	PRD_YEAR	ANN GAS	JAN	FEB	MAR	APR	MAY	, NUL	nr '	AUG	SEP	OCT	NOV	DCM
4703304282	Petroleum Development Corp.	2001	0	0	0	0	0	0	0	0	0	0	0	0	0
4703304282	4703304282 Petroleum Development Corp.	2002	0	0	0	0	0	0	0	0	0	0	0	0	0
4703304282	4703304282 Petroleum Development Corp.	2003	0	0	0	0	0	0	0	0	0	0	0	0	0
4703304282	Petroleum Development Corp.	2004	0	0	0	0	0	0	0	0	0	0	0	0	0
4703304282	Petroleum Development Corp.	2005	0	0	0	0	0	0	0	0	0	0	0	0	0
4703304282	Petroleum Development Corp.	2006	0	0	0	0	0	0	0	0	0	0	0	0	0
4703304282	Petroleum Development Corp.	2007	0	0	0	0	0	0	0	0	0	0	0	0	0
4703304282	4703304282 Petroleum Development Corp.	2008	0	0	0	0	0	0	0	0	0	0	0	0	0
4703304282	4703304282 Petroleum Development Corp.	2009	0	0	0	0	0	0	0	0	0	0	0	0	0
4703304282	4703304282 Petroleum Development Corp.	2010	0	0	0	0	0	0	0	0	0	0	0	0	0
4703304282	Petroleum Development Corp.	2011	0	0	0	0	0	0	0	0	0	0	0	0	0
4703304282	PDC Mountaineer, LLC	2012	1	_	0	Ψ-	τ-	~	-	~	Υ-	~	-	_	-

	DCI						_			_		_	_
	NOV	0	0	0	0	0	0	0	0	0	0	0	0
	OCT	0	0	0	0	0	0	0	0	0	0	0	0
_	SEP	0	0	0	0	0	0	0	0	0	0	0	0
under Oil	AUG	0	0	0	0	0	0	0	0	0	0	0	0
nud.	JUL	0	0	0	0	0	0	0	0	0	0	0	0
operators may have reported NGL	NOS	0	0	0	0	0	0	0	0	0	0	0	0
orted	MAY	0	0	0	0	0	0	0	0	0	0	0	0
e repo	APR	0	0	0	0	0	0	0	0	0	0	0	0
have	MAR /	0	0	0	0	0	0	0	0	0	0	0	0
may	FEB N	0	0	0	0	0	0	0	0	0	0	0	0
ators	JAN F	0	0	0	0	0	0	0	0	0	0	0	0
opera	OIL J	0	0	0	0	0	0	0	0	0	0	0	0
some	ANN												
*	YEAR /	001	002	2003	2004	2005	2006	2007	2008	2009	2010	2011	012
Bbl)		2	7	7	7	7	7	7	2	7	7	7	2
is in	PRD		·	ď	·	·	·	·	ó	·	·	Ġ	
Volumes in Bbl	TOR	it Corp	t Corp	t Corp	t Corp	t Corp	t Cor	t Cor	t Cor	t Cor	t Corp	t Corp	
\ \ \	ERA.	pmen	LLC										
ation	9	evelc	evelc	evelc	evelc)	evelc	evelc)evelc)evelc)evelc	evelc)evelc	ainee
Information:	NCIN	um D	Jum D	aum D	um D	Jum E	3um C	Jum E	3um	3um D	3um	3mm	Jount
Jil Inf	API PRODUCING OPERATOR PR	Petrole	PDC N										
ion C	-	282 F	282	282									
Production Oil In	_	3304	33304	33304	33304	33304	3304	33304	33304	33304	33304	33304	33304.
Pro	AP	470	470	470	47(47(470	470	47(47(4	2	2

≥00000000000

** some operators may have reported NGL under Oil Nere is no Production NGL data for this well

Ruere is no Production Water data for this well

There is no Stratigraphy data for this well

There is no Wireline (E-Log) data for this well

There is no Plugging data for this well

There is no Sample data for this well



WW-4A Revised 6-07

1) Date:	August 28th, 2017	
2) Operator	r's Well Number	
Oak Mound #6		

3) API Well No.: 47 -

33 - 04282

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

4) Surface (a) Name	Owner(s) to be served:	5) (a) Coal Operator Name		
Address		Address		
	Clarksburg, WV 26302			
(b) Name	9	(b) Coal Ow	ner(s) with Declaration	
Address		Name	Laura Goff Davis	
		Address	P.O Box 707	
			Clarksburg, WV 26302	
(c) Name		Name		
Address		Address		
6) Inspector	Sam Ward	(c) Coal Less	see with Declaration	***************************************
Address	P.O Box 2327	Name		
	Buckhannon, WV 26201	Address		
Telephon	e 304-389-7583			

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.

OFFICIAL GEAL NOTARY PUBLIC STATE OF WEST VIRGIMA JESSICA M. LOTT 80 Diamend ID., Davisville, WV 26142 My Commission Expires August 7, 2019	Well Operator By: Its: Address Telephone	Arsenal Resources William Veice Would Designated Agent 65 Professional Place Suite 200 Bridgeport, WV 26330 724-940-1117	RECEIVED Office of Qil and Gas NOV 0_9 2017
Subscribed and sworn before me th	nis <u>6th</u> da	ay of Notary Public	WV Department of Environmental Protection

My Commission Expires
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 depprivacyoffier@wv.gov.

WW-9 (5/16)

API Numb	er 47	_	033	04282	
Operator's	Well	No.	Oak	mound	华し

STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION OFFICE OF OIL AND GAS FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION DIAM

FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN
Operator Name Arsenal Resources
Watershed (HUC 10) Branch of West Fork River Quadrangle Wolfe Summit 7.5'
Do you anticipate using more than 5,000 bbls of water to complete the proposed well work? Yes No
Will a pit be used? Yes No V
If so, please describe anticipated pit waste:
If so, please describe anticipated pit waste: Will a synthetic liner be used in the pit? Yes No V If so, what ml.?
Proposed Disposal Method For Treated Pit Wastes:
Land Application (if selected provide a completed form WW-9-GPP) Underground Injection (UIC Permit Number Reuse (at API Number Off Site Disposal (Supply form WW-9 for disposal location) Other (Explain Vac truck is used for all fluids needed during plugging operations
Will closed loop systembe used? If so, describe: n/a Spw 11/1/2017
Drilling medium anticipated for this well (vertical and horizontal)? Air, freshwater, oil based, etc.
-If oil based, what type? Synthetic, petroleum, etc. n/a
Additives to be used in drilling medium? ====================================
Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc. Na
-If left in pit and plan to solidify what medium will be used? (cement, lime, sawdust) n/a
-Landfill or offsite name/permit number? n/a
Permittee shall provide written notice to the Office of Oil and Cas of any load of drill cuttings or associated waste rejected at any West Virginia solid waste facility. The notice shall be provided within 24 hours of rejection and the permittee shall also disclose where it was properly disposed. RECEIVED
I certify that I understand and agree to the terms and conditions of the GENERAL WATER POLLUTION PERMIT issued on April 1, 2016, by the Office of Oil and Gas of the West Virginia Department of Environmental Protection. I understand that the OV 0 9 2017 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. WW Department of I certify under penalty of law that I have personally examined and am familiar with the information submitted on Environmental Protection 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 Company Official Title Designated Agent, Sr. Director of Production
Subscribed and sworn before me this 6th day of November . 20 17 Notary Public My commission expires Aug 7, 2019
OFFICIAL SEAL NOTARY PUBLIC STATE OF WEST VIRGINIA

Operator's Well No. Oak mound #6

Proposed Revegetation Treatment: Acres Disturbed One +/-	Preveg etation pH	5.5
Lime One-Two Tons/acre or to correct to pH	6.5	678 to 198 (management)
Fertilizer type Agland 5-10-10		
Fertilizer amount 500 lbs/	/acre	
Mulch75-100 bales of hay/strawTons/ac	re	
Seed I	Mixtures	
Temporary	Permanen	ŧ
Seed Type lbs/acre	Seed Type	lbs/acre
	Pasture Mix	200
	(Contains: Orchard Grass, Rye,	Timothy, and Clover
an Approved by:	SEL	
		C
		Env
		See I I V
itle: OOGInspector	Date: 11/7/2017	
eld Reviewed? ()Yes (

WW-9- GPP Rev. 5/16

Page _	of ·
API Number 47 - 03	3 - 04282
Operator's Well No. Oal	6 mound #6

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

GROONDWATER TR	COLDCITION FEATA
Operator Name: Arsenal Resources	
Watershed (HUC 10): Branch of West Fork River	Quad: Wolf Summit 7.5
arm Name: Oak mound #6	
. List the procedures used for the treatment and discharge of flugroundwater.	uids. Include a list of all operations that could contaminate the
N/A no pit being used	
Describe procedures and equipment used to protect groundwat	erquality from the list of potential contaminant sources above.
N/A no pit being used	
 List the closest water body, distance to closest water body, discharge area. 	and distance from closest Well Head Protection Area to the
N/A no pit being used	
. •	
	Ì
Summarize all activities at your facility that are already regulat	ed for groundwater protection.
N/A it being used	Office of Qil and
N/A no pit being used	NOV 0 9 20
	WV Department Environmental Prot

5. Discuss any existing groundwater quality data for your facility or an adjacent property.

WW-9- GPP Rev. 5/16	Page 2 of 2 API Number 47 - 033 - 04232 Operator's Well No. Day Mound #
N/A no pit being used	
6. Provide a statement that no waste material will be us	sed for deicing or fill material on the property.
N/A no pit being used	
Describe the groundwater protection instruction an provide direction on how to prevent groundwater co	d training to be provided to the employees. Job procedures shall entamination.
N/A no pit being used	
8. Provide provisions and frequency for inspections of	all GPP elements and equipment.
N/A no pit being used	Office of Oil and Ga
Signature: ////// / / / / / / / / / / / / / / /	WV Department of Environmental Protection

Oak Mound # 6

t6 47-033-04282

1428

input coordinates

enter comma delimited coordinates, examples 38 15 30, 1, 81 25 152 (lat. Ion as degrees minutes seconds) 38 15345, et al. 20,456 (lat. Ion as decimal degrees) 500000, 4100000 (UTM as easing northing) 1907854.32, 364123.45 (VM state plane as easting, northing)

553696.31, 4345667.60

UTM NAD83 Zone 17N

Convert Zoom to point

output coordinates 39 258589,-80 377808

Google Maps

history (for copy paste edst)

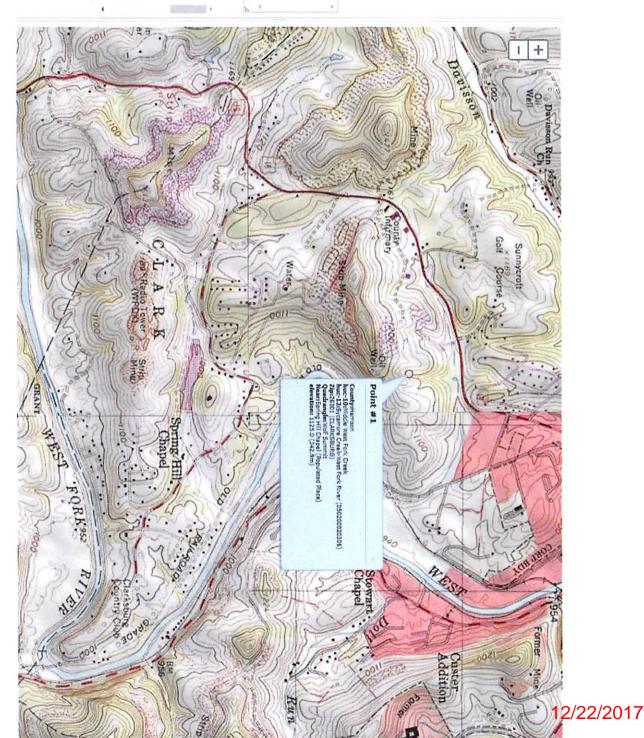
1.552866.2,4245887.6,UTM17N NADB3(1988).39.258589.-80.377838,LL NADZ7

notes about datum conversions

Datum conversions between all realizations of NAD27, NAD83, and WGS84 are not practical, or sometimes and strictly possible. Many of the issues are associated with the inability to convert between the original realization of NAD8a are more recent realizations. While error could be reduced by introducing an intermediate HAPN convenion, separate transformations would have to be implemented for each state, which significantly increases the complexity of the application. Therefore datum conversions unclude a few built-in assumptions:

 Comercions between MAD27 and MAD83. This converts between NAD27 and NAD83(1986) using the NADCON transformation. Nerver realizations of NAD83, such as NAD83(CORS96) and NAD83(2011) can differ from NAD83(1986) by a meter or so. This conversion uses the East transformation NAD_1927_To_NAD_1983_NADCON.

Link to previous version



WW-7 8-30-06



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

API: 47-033-04282N	WELL NO.: #6	
FARM NAME: Oak Mound		
RESPONSIBLE PARTY NAME:	Arsenal Resources	
COUNTY: Harrison	Arsenal Resources DISTRICT: Clark	
QUADRANGLE: Wolf Sumi	mit 7.5	
SURFACE OWNER: Laura G	off Davis	
ROYALTY OWNER: Laura Go	ff Davis & "M" Trust of Diana Goff	Cather
UTM GPS NORTHING: 55 36		
UTM GPS EASTING: 434561	GPS ELEVATION: 114	40
The Responsible Party named above preparing a new well location plat for above well. The Office of Oil and Gathe following requirements: 1. Datum: NAD 1983, Zone: height above mean sea lev	has chosen to submit GPS coordinates in line a plugging permit or assigned API numbers will not accept GPS coordinates that do not accept GPS coordinates th	eu of r on the ot meet
 Accuracy to Datum – 3.05 Data Collection Method: 		
Survey grade GPS: Post Pro	me Differential	
Mapping Grade GPS X : Post		
Real-	-Time Differential X	RECEIVED
I the undersigned, hereby certify this	pography map showing the well location data is correct to the best of my knowledge equired by law and the regulations issued as. Designated Agent, Sr. Director of Production	and NOV 0 0 2005
Signature	Title Ds	/