



71-00021

MEGAENERGY OPERATING, INC.



#### 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 Joe Manchin III, Governor Randy C. Huffman, Cabinet Secretary www.wvdep.org

September 03, 2009

#### FINAL INSPECTION REPORT

#### WELL PERMIT RELEASED

MEGAENERGY OPERATING, INC.,

The FINAL INSPECTION REPORT for the permit, API Well Number: 47-7100021, issued to MEGAENERGY OPERATING, INC., and listed below has been received in this office, and reclamation requirements approved. The well designated by the permit number below has been released under reclamation and will remain under your bond.

James Martin Chief

567-2380

Operator: MEGAENERGY OPERATING, INC.

Operator's Well No: DICE 1

Farm Name: MALLOW, ROY & EDITH

**API Well Number: 47-7100021** 

Date Issued: 09/20/2007 Date Released: 09/03/2009

Promoting a healthy environment.

INSPECTORS PERMIT SUMMARY FORM GPS YES [ ] NO [ ] OPERATOR: FARM: COMMENCED: 5.27.08 DEPTHS: Well No: COAL DEPTHS WATER DEPTHS: QUESTIONS FOR THIS REPORT ARE IN ACCORDANCE OF WV CODE 22-6-30 AND REGULATIONS 35CSR 4-12.1 AND 35CSR 4-16 AND THE GENERAL WATER POLLUTION CONTROL PERMIT. POINTS ARE TO BE GIVEN UP TO MAXIMUM AS SHOWN BASED ON PERFORMANCE. 1. DID OPERATOR GIVE PROPER NOTICE TO INSPECTOR BEFORE THE FOLLOWING: YES NO [ ] (2\_PTS) A. CONSTRUCTION YES [ NO [ ] (2\_PTS) B. DRILLING 2. WAS THE TIMBER CUT, STACKED, AND BRUSH USED FOR SEDIMENT BARRIERS YES [ NO [ ] (2\_PTS) BEFORE DIRT WORK STARTED? 3. ARE ALL LOCATION AND/OR ROAD BANKS BEING SLOPED? YES [ ] NO [ ] (4\_PTS) 4. CONSTRUCTIONS: WERE THE FOLLOWING SEDIMENT CONTROL STRUCTURES PROPERLY INSTALLED/MAINTAINED? (1)\_(2)\_(3)\_(4) VPTS) B. CROSS DRAINS (1) (2) (3) (4) (5) (PTS) A. ROAD DITCHES (1) (2) (3) (4) (5) (PTS) D. CREEK CROSSINGS (1) (2) (3) (PTS) C. CULVERTS F. BARRIERS (1) (2) (3) (PTS)E. DIVERSION DITCHES (1) (2) (3) (PTS) G. TEMPORARY SEEDING YES[ NO[ ] (10\_PTS) POINTS AVAILABLE FOR QUESTION 4: YES NO [ ] (2 PTS) 5. HAS TOP SOIL (IF ANY) BEEN STOCKED PILED? 6. IS THE PIT PROPERLY INSTALLED AND MAINTAINED? YES [ NO [ ] (9\_PTS) 7. RECLAMATION: (1) (2) (3) (PTS) A. ROADWAY B. LOCATION (1) (2) (3)  $\sqrt{3}$ D. PIPELINES (1) (2) (3) (PTS) C. PITS YES NO [ ] (3\_PTS) F. API INSTALLED E. TANK DIKES (1) (2) (3)(1) (2) (3) (PTS) G. ADEQUATE SEEDING MATERIALS H. WAS SEED BED ADEQUATE (1) (2) (3) (PTS) (24\_PTS) 24 POINTS AVAILABLE FOR QUESTION 7: 8. WAS RECLAMATION COMPLETED WITHIN: 6 MTHS OF TD 6 PTS ONLY; 4 MTHS OF TD 12 PTS ONLY; 2 MTHS OF TD 19 PTS ONLY; **POINTS AVAILABLE FOR QUESTION 8:** (19 PTS) TOTAL MAXIMUM POSSIBLE SCORE OF 99.

RECORD INSPECTIONS TO THIS WELL ON PAGE 2

TOTAL RECLAMATION SCORE:

# State of West Virginia Department of Environmental Protection Office of Oil and Gas Discharge Monitoring Report Oil and Gas General Permit

Company Name: MegaEnergy Operating, Inc.		
API: 47-71-00021	County: Pendleton	
District: Union		
Farm Name: Mallow, Roy & Edith We		
Discharge Dates/s From:(MMDDYY)_5-21-08TO:		
Discharge Times: From_6:00 AMTO	_6:00 PM	
Disposal Option Utilized: UIC (2): Permit No.		
Centralized Facility (5):_5 Permit No. Waynesbu	arg Tri-County Waste Management,Inc	
Reuse (4): Alternate Permit Number:		
Offsite Disposal(3): Site Location:		
Land Application(1): (Include a topographical m	ap of the Area.)	
Other method(6): (Include an explanation)		
Follow Instructions below to determine your treatmen		
Optional Pretreatment test:Cl- mg/l	DO Mg/l	
1. Do you have permission to use expedited treat		
Director or his representative? (Y/N)		
who?, and place a four	r (4) on line 7. If	
not go to line 2		
2. Was Frac Fluid or flowback put into the pit? (Y	//N) If yes	
go to line 5 if not go to line 3	OFIVED	
3. Do you have a chloride value pretreatment (s	see above)?	
(Y/N) If yes go to line 4 if not go to line 5	Office of Oil & Gas	
4. Is that chloride level less than 5000 mg/l? (Y/I	N) If yes JAN 1 2 2009	
then enter a one (1) on line 7		
5 Do you have a pretreatment value for DO? (See		·
If yes then go to line 6 if not enter a three (3) in lin		not
6 Is that DO greater than 2.5 mg/l?(Y/N) If yes t	nen enter a two	
(2) on line 7 If not enter a three (3) on line 7.		
7 is the category of your pit. Use the Appro		
Name of Principal Exec. OfficerJohn Scott Horna Title of Officer President		
Date Completed: May 30, 2008		
I certify under penalty of law that I have personal	lly examined	
and am familiar with the information submitted on t	-	
all the attachments and that, based on my inquiry of the		
immediately responsible for obtaining the information		
the information is true, accurate, and complete. I as		
there are significant penalties for submitting false i	•	
including the possibility of fine and impri- Signature of a Principal Exec. Officer or Author	rized agent	
77.847/2/		
Signature		
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11 TVA	of Topics

Key Energy Services, Inc. TRUCKING JSA REMIT TO: PO BOX 201858 DALLAS, TX 75320-1858

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Key Energy Services, Inc.

TRUCKING JSA

REMIT TO: PO BOX 201 858 DALLAS, TX 75320-1858

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Work Ticket No. T658696

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		Hot Oil Unit Minimum	0 130 BBL	0 75 BBL				
		Hot Oil Unit Hourly	0 130 BBI	0 75 BBL		<u> </u>	<del> </del>	
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Key Approval - Date:

They Stungtition 5/22/08 Customer Approval - Date:

Key Energy Services, Inc. TRUCKING JSA

Customer Name/No.	Petroleum # 2495		County/	Parish O.	ndle	١٠٥	State
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HOOK - UNHALK HOSES	Hitting Smostrage	Prochabini	£	Hoor	म कि	dy Pe	reme
	1. 11 0-	-1.11			_		
Key Approval - Date: 🛭 🖊	101 Thinguison.	<u>5/2/08</u>	Cus	tomer.	Appro	val - Da	ate: 🔔



Work Ticket No. T658833

Asset	Service Code	l		Description			City	Rate	Total
		O Transport	154 Trans/Vac	O Vecuum					
		Minimum		0 130 BBI	0 60-80 BBI	0 50BBI			
107263	300073	₩ Hour 0	Barrel 0 load	<b>25</b> -130 BBI	(7.60-80 BB)	0 50 BBI	1018	<b>ロン //2</b> 2	
	l	Pump/Kill Tru	ck Minimum	0 130 BBI	0 60-80 BBI	0 50 BBL		,	Pinner
		Pump/KIII Tru	ck Hourly	0 130 BBI	Ø 60-80 BBI	0 50 BBI			
		Hot 011 Unit N	Minimum	0130 BBI	0 75 BBI				
		Hot Oil Unit H	lourly	0 130 BBI	075 BBI				. N
		Hot Oil by the	BSL						823
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	l	Winch Truck	Hourly	OUght Duly	O Heavy Duty				(1) (1) (1) (1) (1) (1) (1) (1)
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		KCI (Potassi	um Chloride) Po	owdered		•	<u> </u>		L
		KCL Substitu				<del> </del>			
		KCI 02%	<u>□3%</u> 0	4% () Other			ļ		
		Chemicals :	Specify:				ļ		
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		<del> </del>					<u> </u>	-	ļ
2243	200700	Fue Care	l Surchange O	Fuel Charge	'1				
							/ Suit	Total /	1
							6-1	es Tax	717
							Sar	OS INX	<del></del>
							TC	TAL	1
AYROLL.							<b></b>		

Class	Employee No.	Employee Name / Signature	End	Work	Travel	Down	Other	Total Hours
RIVER	42790	1 5-21 Cr	f	In.S				
ELPER		David V "						
		T - 13 · · / - · · - · · · · · · · · · · · · ·				I		

(Ke

Key Energy Services, Inc.
TRUCKING JSA
REMIT TO: PO BOX 201858 DALLAS, TX 75320-1858

Custome	r Name/No.	Agn	Petrale	um 2495			County/	Parish de to			State
Contact	T. R. H	Arriso	9.1	Service Location	÷ ÷						
Directions	to Location	1	* I	GAZ	1	<del></del>					
-											
Yard No.		-	Unit/Asse	_	Marille	et _		RCC I	Vo.		-
00	-		101	34857		58883	,	ŀ			
SWD Nar	пө			☐ Key SWD	ΠC	uetomer SWD	@Public	SWD	Disposa	Ticket No	
<u> </u>									_\0'	1698	_
	<del>,</del>	SCRIPTION	<u> </u>								
Start	End			Dès	cription				# BBL	OII/Water	Rec'd B
611 14	6:007	HAUR	يد ازم d	Atel From	Abou	e wells	ite		186	Pito	ノ
		To -	Tr= - ( 16		es histo	PA. For	N:ca	1	T*		
		hAc	<u> </u>		. •	1	71126	0371			
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	<u> </u>	<u> </u>		<del></del>							
Tank No.			Tank No.		T. 1.11					1	
					Tank No.			Mileage S		Mileage I	
Top Gaug	<u> </u>		Top Gauge		Top Gauge	<u> </u>		313		264	
Bottom G	auge		Bottom Gai	ige	Bottom Ga	uge		ifta	A State	<u>ليا</u> هاا	U State
			ED TO DO	THIS JOB.				,			H-178
ard Hal		0 Safety		Sefery Harness / A.		<b>Broper</b> Clothing			g Protecti	on	
Fire Extin	iguisners elds / Gogale		oed Boots Chock/Cones	© Confined Space Pe		Safety Glasses		O Other	- Explain:		
) H2S / Th	-		Chock Cones Support Belts	() lock Out/Tag Out	MTM.	O Work Permit Re	eqUi <b>red</b>		-		
		ASSESSM	,,	lock Out tag Out		Izi Ground Cable					
PRE-JOB Utting	HAZAKU	ASSESSMI	=NI: Hazar	r <b>i</b> n		Body Position/A	<b>4</b>			tai Conditio	_
Manual Lifti		ition) (IY (	N Prope	Tool/Material Placemen	0 Y O N	Climbing	Ϋ́O		Day	: (I) Night	" DrČlesa
		ment OY (		old Surface or Material Juate Ughting	OYON	Pulling, Pushing			Drizzle	O Humid	Ó Rain
Awkward Bi Sab/(tho Pol	ody Position tential	0 Y 0		ptaction/ Anchor Points	NO YOU	Bending Twisting Motion	YO		ice v Sr Temp	iow () Dus Den	t O Hong rees
	her Employee		N Pinch	Points	<b>84</b> 8 M	Walking	y ŏ		Wind	mph	
	ing Practices		N Trenct	IngJExcavation and Finger Hazards	OYON	SWinging			Chains Re		_
Access/Edi	ł			and Finger Hazards cai Hazarda	ETY ON OY ON	Straining Stretching			Steep Gra	ides	Conditio
	operly <b>Inspec</b>		N Weldir	g/Flame Cutting	OYON	Reaching			-	HAZARDS	
adder	Tankali taka t	0 Y C		nical Equipment	OYON	Over Extending	0	] N		,	
rioisting 01 Secure Fool	Tools!Maleria tino	is OYO	ON Building	rimental in (Personal Exposuris)	OYON	Jumping Crawling	OY I	N			
						TENTIAL HAND AN			TON TAKE	N TO ELEM	WATE OR
	CE OF BASIC	JOB STEPS	OR	M. ATRISK BEHAVIORS OTHER HAZAROS		FINGER HAZARDE		RE	DUCE PO	TENTIAL HA	ZARD8
TIC.	load K	046	75.0		<del>} ```</del>	4X3			and	A Fe Dr.	164
V.	C VCol	Lond Mark		LUP OFFICES	.dl	Dent				1144	
	adho.		50	1 11		- He !		ユ	4100	65	
ت ن	(Wines		Egni	1184 Leable	ci .	Agat			awa	<u>Lickar</u>	Chuir
	•			111	شغوا ا	-13-100	k 4				
(ey Api	proval -	Date:	1100	MANAGE	-	1/	Cus	tomer.	Appro	val - Da	ite:



Work Ticket No. T 58883

Asset	Service Code	Description	Qly	Pieto	Total
		O Transport Frame/Vac O Vacuum			
	2001112	Minimum 0130 BBL 0 60-80 BBL 0 50 BBL		82,00	984,00
0134857		Dirflour () Barrel 0 Load 0 130 BBL DIFFO-80 BBL 0 50 BBL	12hrs		
		Pump/ <jii 0="" 130="" 50="" bbl="" bbl<="" d80-80="" minimum="" td="" truck=""><td></td><td></td><td></td></jii>			
	İ	Pump/I <jil 0="" 50="" 60-80="" bbl="" bsl<="" hourly="" o="" t30="" td="" truck="" ·=""><td><del> </del></td><td></td><td></td></jil>	<del> </del>		
		Hot CM Unit Minimum 0 130 BBL 0 75 SBL			
		Hot Oll Unit Hourly 0 130 BBL 0 75 BBL	1		•
		Hot Oil by the BBI			H 🛂
		Propane			200
		Winch Truck Minimum O Light Duty O Heavy Duty			371 ··
6		Winch Truck Hourly O Light Duty O Heavy Duty	1		- 135
		HaUt, Set ≜ Deliver Equipment			1 (5)
		O Swamper O Special Fluid Helper	l		-
		Supervisor O Truck O Acid O Special Fluid			
		Fresh Water Key Owned -			
79		Fresh Water Non Key			
		Brine Water Key Owned			
		Brine Waler Non Key			
		Disposed Key Owned () Solid O B/S			
		Disposal Non Key O Solid O BIS /			
	30 070	Disposal Key Owned O Produced O Flowback	80	2,94	235,20
1011457		Disposal Non Key Produced Floribect + \	110		<del>=</del>
		Third Party			
		KCI (Potassium Chloride) Powdered			
		KCI Substitute			
		KCL 0 2% 0 3% 0 4% O Other			•
		Chemicals - Specify:			
		*			
·1 · •4.	300360	· · · · · · · · · · · · · · · · · · ·	J	343,8	343,87
1001	3	FUEL 0 Fuel Surcharge O Fuel Charge	7	7,0,7	15/ 7.00
			Sub	Total	1
		DE CENTED AAN OO			
		RECEIYED MAY 23	Sale	s Tax	
			TO	TAI	
HOLL					

			F. L. Carrier of the Character.	_				
Chair	Employee No.	Employee Reme / Signature	S C Wo	rk trevel	Down	Other	Total Ho	ur:
NEX.	48002	Jungles 5 2008	6 6 6 6	ا			134	
IELPER		Servered	(製)製					
			-	•	•	<b>'</b> '	WIDOS I	210

Key	TRUCK	ergy Services, Inc. ING JSA D: PO BOX 201858 DALLA	¶8. 4.S, TX 75	320-185	8					
	Sagar	etro le pun Service Locatio	24°	15 Jae	# /	Cognity	Parish	lon		State U
Directions to Location	Pendl	leton Co.	<u>ں</u> ں							]
Yard No. 081		Unit/Asset No. 010 (c3 \rightarrow 0		Manifes		······································	RCC I	Vo.		
SWD Name - とのい WORK TICKET DES		aste Water M	<sup>ND</sup> 7 <u>qnq</u> -			E Public	SWD	Disposa	Ticket No	.
Start End			Descrip	tion				#BBI	Oil/Water	Rec'd By
1 6:30	Load	A toukos +	Hay	lod	10 RR	L 0	£1	70	Dit	
	Did.	10 to 6 4'co.	- 6	- 0 ±	$f +_0 \iota$	<u> </u>	sburg	, ·		
	P - \A	04161 1760	<u> </u>	<u> </u>	7 -0 4	PAYAL	PBAFK	<b>-</b>		
<del></del>								-		
<del></del>		· · · · · · · · · · · · · · · · · · ·						L		
ļļ		급								
Tank No.		Tenk No.	7	ank No,			Mileage S	tart	Mileage I	End
Top Gauge		Top Gauge		op Gauge			3751		378	
							lfia	State	Ifta	State
Bottom Gauge		Bottom Gauge	JE	ottom Ga	uge		Ergl			
SAFETY ETHAND Hat	O Safety	ER TA DO TUIC IOC. Belts O Safety Hame	es / Anti Fr	al Device	Proper Clothing			ıç∋. ⊸a ıg Protecti		
O Fire Extinguishers		oed Boots Cotton/ Rub		m Device	El Safety Glasses			- Explain:		
O Face Shields / Goggles		Chock/Cones O Confined Sp	ace Permit		O Work Permit Re	quired				
O H2S / Tri-Monitors	O Back S	Support Belts O Lock Out/Ta	Out g		O Ground Cable					
PRE-JOB HAZARD	ASSESSME	ENT:								
Lifting		Hazards			Body Position/N				🕶 Conditio	n . z.
Manual Litting (Body Posi Mechanical Ufting Equipm				Y EN	Climbing Pulling, Pushing	0 y 1		Day Drizzie	() Night O Humid	Clear O Amin
Mechanical Orang Equipa Mailomand Body Position	OYE			YEN	Bending	EY (			now () Dus	
Slip{Trip Potential	erv c	N Fall Protection/ Anchor		VEN	Twisting Mation	0 V 1	ס אב	Temp		rees
Uffing wiOther Employee				Y ON	Walking SWinging	SA 6		Vind ChainsRē	npt beniuse	<u>-</u>
Proper Rigging Practices	OYE	Hand and Finger Hezar	da ĝ	TÝ DIN	Straining	OY	e in	Steep Gra		
Access/Edil Scaffold (property inspect	ted) OVE	Electrical Hazards  N Welding/Flame Cutting		MED Y	Stretching	37		Mud _		_ Condition
Ladder	Oy c			YEN	Reaching Over Extending		2N KY In	(ES to any	HAZARDS	- Identify:
Hoisting of Tools/Materials	s ove	Environmental			Jumping	ŎÝŧ	ÍU 💮			
Secure Footing	0 4 6	N Pollution (Personal Exp	osure) C	YEN	Crawling	OY	5N _			
SECURINGS OF BASIC	JOS STEPS	POTENTIAL AT RESK BEHA OBLOTHER HAZARDI	VIONS	PO	TENTIAL HAND AND	POY	AC	TON TAKE	N TO ELIMII	NATE OR
-Z. SID+TTE	·CV	Socking			Les Trus		$-\omega$	alk I	Hound	₹
	Hoses	Bending	÷ ,	UNIO	ad load	4636	5 61m	15/314	M. Hack	444
J. HOOK to	Cocess			HEOI	LHUSUSAMA	u Ve\ •		S/HA	Jair	
H. Kewelse	154617	<del></del>		7100	Juffer of F	٠ د ن	<del>-   -   -</del>	4.14.	- 4.65	<u> </u>
<del></del>										'

O Transport

Minimum

Pilour 0 Barrel 0 load

Pump/Kill Truck Minimum

Pump/Kill Truck Hourly

Hot Oil Unit Minimum

Hot Oil Unit Hourly

Hot Oil by the BBI Propane

Winch Truck Minimum

Supervisor O Truck

Fresh Water Key Owned Fresh Water Non Key Brine Water Key Owned Brine Water Non Key Disposal

Key Owned

Key Owned

Non Key

Non Key

Winch Truck Hourly

O Swamper

Disposal

Disposal

Disposal

Third 'Party

KCI Substitute KCI 0 2% 0 3%

Chemicals - Specify:

Asset Service Code

0106320 300143

0106320 301030

San San Breeze

Work Ticket No. T753a3

Description Oty Rate Total ☐ Vacuum 0 130 BBI 0 60-80 BBI 0 50 BBI 0 130 BBI 25 60-60 BBI 0 50 BBI 0 130 BBI □ 80-80 BBI 0 50 BBI 0 50 BBI 0 130 BBI 9 60-80 BBI 0 130 BBI 0 75 BBI 0130 BBI 0 75 BBI O Ught Duty O Heavy Duty .... O Ught Duty O Heavy Duty Haul, Set & Deliver EqUipment O Special Fluid Helper O Acid O Special Fluid O Solid O BIS O Solid O BIS O Produced O Flowback Pir O Produced Showback 2,94 205,80 70 KCL (Potassium Chloride) Powdered

OVOL320 300700 FUEL & Puel Surcharge O Fuel Charge BECEIVED MAY 28 200 Sales tax calculated on invoice

358,20 358120 158% Sub Total Sales Tax TOTAL

PAYROLL:

1 •		<u></u>					_
Class	Employee No.	Employee Hame / Signature	Z:	Eine "	Work	avel	D
DRIVER	28810	Brad Stiotler		6,0	12.		
HELPER		5-21 5-21	-08				

() 4% () Other

OVT-008 12i06

Key Approval - Date: For shing litery 5/22/08

Customer Approval Date: \_

X No Signature Required

~

Key	_
	-

Key Energy Services, Inc.
TRUCKING JSA
REMIT TO: PO BOX 201858 DALLAS, TX 75320-1858

	Name/No.	444	Petro	eum 249	5			County	len	dietor	·	WVG
Directions	R. Ha	criso	n	Service Location G	رد"	1						
D. (100.10	to coodion											
				-								_
Yard No.	۵١		Unit/Ase		N	lanifes	st		R	CC No.		_
00			0146	113-1327080								_
SWD Nam		_		C Key SWD			istomer SWD	Public Public			il Ticket No	).
7	<u> JKT</u>	Coun	tr W	uste water	<u>M</u> ,	TVC	igement.	11	<u> (C.</u>	670	1-671	٥
WORK TI		CRIPTION	t				<u> </u>					
Start	End			. Des	riptio	n				#BBL	OillWater	Rec'd By
2.00	12:00	Hay le	d. two	10015 81+	Wa	ter	to dispo	1: ac		230	Pit	
Pin	Pn						1.1					
1.41	1.//										T	<b></b>
	$\vdash \vdash$										<del> </del>	<b> </b>
					-						1	
Tank No.	<u> </u>		Tank No.	····	Tenl	k No.			Miles	age Start	Mileage	End
			1		1				Miles	nge start	4 . 4	
Top Gauge	•		Top Gaug	8	Тор	Gauge			ام	1115_	6181	
Bottom Ga	uge		Bottom G	auge	Boti	om Ga	uge		ala j	State		CL_State
SAFETY	EQUIPMEN	T REQUER	HED TO DO	THIS JOB:			,			H-313	17	
Hind Hat		0 Safety		0 Safety Harness / An		Device	Proper Clothin	-		learing Protec		
Fire Extin	-		Toed Boots	PCotton/ Rubber Glo			Safety Glasses		0 0	Other - Explain:		
	elds / Goggies		Chock/Cone		rmit		O Work Permit R	equired	_			
O H2S / Tri-	Monitors	U Back	Support Bells	0 Lock OutiTag Out			O Ground Cable		_			
	HAZARD A	SSESSM								_		
Lilling	a (Body Posit	ion) 1504 (	Haz ON Prop	e <i>rds</i> er Tool/Material Placemen	E E	n	Body Position/i		int IDNN	Emitronmei (YDav	stal Condition  U Night	on ∐.Clear
	<b>Ulting Equipm</b>			Cold Surface or Material	OY	ΒŅ	Pulling, Pushing	ÜŸ	N E	O Drizzle	0 Humidi	( Rain
Awkward Bo	ody Position	□ y t	n Inad	equate Ughting		OZ/N	Bending		į pγΩ		now () Dus	
Slipffrip Pol		_		Protection/ Anchor Points h Points	e X	ØN □N	TWisting Motion Walking		0 N 0 N	O Temp D Wind	Deg	grees h
	ner Employees ing Practices		Tren	ching/Excavation	0 1	EN.	SWinging		0 N	O Chains R	equired	
	-	٠.,	Han	d and Finger Hazards	0 1	E N	Straining	DE/X	0 N	D Steep Gr	ades	Condition
Access/Exil Sceffold (on	r operly inspecte	od) []∀ i		trical Hazards fing/Flame Cutting	0 Y	98) 1987 N	Stretching Reaching		0 N	O Mud		
Ladder	,peec	Y	N Mec	hanical Equipment	ŎΥ		Over Extending	ŌΥ	N N	n TES TO AF	y HAZARDS	- identity;
Hoisting of	Tools/Materials			ironmental	6.4	O **	Jumping	OY	DEN .			
Secure Foot				ution (Personal Exposure)	- T	ON	Crawling	() Y	אינט	ACTOCAL TAX	EN TO FI PM	NATE OR
SEQUEN	CE OF BASIC .	OB STEPS		TIM AFRISK BEHAVIORS IR OTHER HAZARDA FUW Youd	+		TENTIAL HAND AN FINGER HAZARDS	5		ACTION TAK REDUCE P	STENTIAL H	ZAROS
HAC.	<u> 19</u>		1	1 -	+	,,,				×1.01.7	211/4	-
Dock	ina		Bu	10 56015		No	ne.			No Wa	X Alei	rd.
10.34		V 11.4.4	11.15	ne sevishine	$\dashv$	rine.	h Peints			Rodiz	Philes	2002
rucó K	HUHUD	K HOLS	TRIFF	and sextimed	للنن		1 1915 13			TANK.	· Edek P	TETTI .
Key Ap	proval - (	Date:	Tien	Skingle	ton	<u>.                                    </u>	5/22/08	_ Cu	ston	ner Appro	oval - Da	ate:



Work Ticket No. T7,5 053

Asset	Service Code	Description		Qly	Rate	Total
		O Transport Therefore O Vacuu	m		•	
		Minimum 0 130 BBI			1	
1146713	300073	Hour 0 Barrel 0 Load 130 BBI		10	\$7,5"	8701
		Pump/Kill Truck Minimum 0 130 BBI				
		Pump/Kill Truck Hourly 0 130 BBI	0 60-80 BBL 0 50 BBL			
		Hot Oil Unit Minimum 0 130 BBI	. 0 75 BBL		†******	
		Hot Oil Unit Hourly 0 1308BI	. 075 BBL	Ī		
		Hot Oil by the BBL			1	100
		Propene				: 3 (1)
		Winch Truck Minimum O Light Du	ty O Heavy Duty			-
		Winch Truck Hourly O Light Du	<del></del>			3500
		Haul, Set & Deliver EqUipment				: 1 a
		O Swamper O Special Fluid Helper			1	
			ial Fluid	T		
		Fresh Water Key Owned				
		Fresh Water Non Key		1		
		Brine Water Key Owned				
		Brine Water Non Key		1		
		Disposal Key Owned O Solid	O BIS			
		Disposal Non Key O Solid	O BIS			
		Disposal Key Owned O Produced	O Flowback			
146713	301030	Disposal Non Key O Produced	唐 Flowback (ドル	230	2,74	676,20
		Third Party				
		KCL (Potassium Chloride) Powdered				
		KCL Substitute				
•		KCL 9 2% 0 3% 04% 0 0	her i	1	1	
		Chemicals - Specify:				
					L	
				T		
						1
			3			
			1	T		
			В			
214670	300700	FUEL Z Fuel Surcharge O Fuel Charge		I I	28654	28650
				Su	b Total	18327
				<del></del>		V
				Sa	les Tax	
				1 т	OTAL	

Close	Employee No.	Employée Hamo / Signature	Start	End	Work	Travel	Down	Other	Total Hours
RIVER	47818 :	James 5 Chidester	7.40	15.00	9				0
ELPER	,	Omnas Ruther 5-21-08	24	PM					
			- 37			-			12106 12106

				<del></del>	1,30	<del></del>					•				
TRUCKI REMIT TO	Proy Services, Inc. ING JSA D: PO BOX 201858 DALLAS. TX	<u> </u>	inty/Parish,			_ <b> </b>	111111111 *T65	11111		Date:	12.200 101 w O E	Work	Ticket I	No. T6	586 <b>9</b> 7
Contact Sets a	Petroloum * 249	L.	Pendel	ليم	State (t)	Asset	Service Code			Description			ety	Rate	Total
I.R Marris	Section Common 338	CAE MI		-/		Asset	Cervice dode	O Transport	0.7				+ BIY	Lene	Total
Directions to Location	$\mathcal{N}_b$	CAE MI		-		┥ ┌──		Minimum	O TransN	0130 BBL		0 50 BBL	$\vdash$		1
							300/43		Berrel 0 Loa		0 60-80 BBL	0 50 BBL	14	8000	707/2
		07.2					75	Pump/Kill Tru	·····	U 130 BBL	0 60-80 BBL	0 50 BBL	┲	<del>                                     </del>	F
Yard No.	Unit/Asset No.	Manifest	RCC	No.				Pump/Kill Tru		0 130 BBL	0 60-80 BBL	0 50BBL	<del>                                     </del>	<u> </u>	
008/	#C/06.322.	-1   ·	i					Hot 0 !! Unit !		0 130 BBL	0 75 BBI		<del>                                     </del>	<del>                                     </del>	
SWD Name	☐ Key SWD 💸	O Customer SWD	iblic SWD	Dieposal	Ticket No.		-	Hot Oil Unit I		0 130 BBL			<del>                                     </del>		<del>                                     </del>
Tai Canut	Walnut to lake to	Annsement		4	<b>7.3</b> 0			Hot 0 It by the			V .5 552		1	<del>                                     </del>	
WORK TICKET DESCRIPTION:		HINYEMENL			<u> </u>	'		Propane					<del>                                     </del>	<del>                                     </del>	<b>10</b> 1
Start End	Desc	ription		# BCI	Oli/Water Rec'd			Winch Truck	Minimum	O Uaht Dui	y O Heavy Duty		<b>†</b>	<del></del>	75 mm =
n 1		- sprice (		# 651	Oll/Water Recid	PA PA		Winch Truck			v O Heavy Duty			<del>                                     </del>	7.0
1 no la no luca-1	ed Tanker						<del>                                     </del>		Deliver EqUipm		, 0 110017 0017	<del></del>	<del>                                     </del>	<del></del>	49
								O Swamper	<del></del>	Fluid Helper		-		<del> </del>	
1.1	1 70 BBL 7it A			1		<b>-</b>		Supervisor		Acid O Spec	ial Fluid			· · · · · · · · · · · · · · · · · · ·	
I HELLOG	70 0B1 // C A	DATEC		-	- 1			Fresh Water			*		<u> </u>	<b>)</b> -	<del> </del>
From	Above well Si	te To I L'SDOSAL		10	Pit-	_		Fresh Water				·—···			<u> </u>
								Brine Water	Key Owned		······································			† <del></del>	
								Brine Water	Non Key				<b></b>		
		1		1				Disposal	Key Owned	O Solid	OBIS			T	
Tank No.	Tank No	Tank No.	Mileage S	tart	Mileage End			Disposal	Non Key	O Solid	O BIS				
Top Gauge	Top Gauge	Top Gauge	بهوبر	.a l	_60/BI_			Disposal	Key Owned	O Produce <b>d</b>	o Rowback				
Boltom Gauge	Bottom Gauge	Bottom Gauge			ilta	0/0632	4 30/030	Disposal	Non <b>Key</b>	O Produced	Flowback (	MIT	10	477	200,00
<u> </u>		Bottom Gauge			<del></del>			Third Party							
SAFETY EQUIPMENT REQUIRE Hard Hat	ED TO DO THIS JOB.	i Fall Device Proper Clothing	colin-	Protectio	_				um Chloride)	Powdered			<u> </u>		
Fire Extinguisners 12 Steel To				ig Protection:	ın	<u> </u>		KCI Substitu					<u> </u>	<u> </u>	
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PRE.JOB HAZARD ASSESSME	NIT-					_		<u> </u>							
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Scaffold (property inspected) O V 🖪 Ladder O V 🗗		OVEN Reaching O'S	ON WY	ES to any	HAZARDS - Identif	Sales ta	x calculated	on invoice	•	BC00			Sut	Total	10000
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Key Approval - Date:	Hon shonglish	5/23/08 C	ustomer	Approv	/al - Date:					<b>⊠‰</b> Sig	nature Rea	uired			

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PRE-JOB HAZARD A	ASSESSMENT:							

Key Energy Services, Inc.

_	Hazarde		Body Posillon/M	foverstand	Environmental Condi	ition
	Proper Tool/Material Placement	DA ON	Climbing	BYEN	0 Night	t ()Clear
SIA.	Hot/Cold Surface or Material	DY DA.	Pulling, Pushing	DALIN	O Drizzle () Hum	id ()Rain
- IIN	Inadequate lighting	DY DAG	Bending	DUTIN	Dice () Snow () D	oust () Foot
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		ny ny	Over Extending		If YES to any HAZARE	JS - Identity :
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Ω <b>Λ</b> į	Pollution (personal Exposure)	□Y DAT	Crawling	□Y □₩		1
7	POTENTIAL AT-RISK SENAVIORS	POT	ENTIAL HAND AND	MOR I	ACTION TAKEN TO ELI	NO STANSA
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Key Approval - Date:

SEQUENCE OF BASIC JOB STEPS

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DY

Ufling

**Awtward Body Position** Slip!Trip Potential

Lifting w/Other Employees Proper Rigging Practices Access/Exit

Scaffold (property inspected)

Holisting of Tools/M Secure Footing

> Drive Hacking

> > Customer Approval - Date:

Work Ticket No. T65 8 4Date: 52 "
S M T W OF S

Asset	Service Code	Description	Qty	Rate	Total
		O Transport Strans/Vac O Vacuum			
		Minimum 0 130 BBL 0 60-80 BBL 0 50 BBL			
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	101001	Pump/Kill Truck Minimum 0 130 BBL 0 60-80 BBL 0 50 BBL		13	f Render
		Pump/Kill Truck Hourly 0 130 BBL 0 60-80 BBL 0 50 BBL			-
		Hot (ILI Unit Minimum 0 130 BBL 0 75 BBL			4 **
		Hot 0 II Unit Hourly O 130 BBL 0 75 BBL			
		Hot all by the BBL			
		Propane			
		Winch Truck Minimum O Light Duty O Filiphy Duty			
•		Winch Truck Hourly O light Duty O Heavy Duty			
		Haul, Set & Deliver Equipment			7 63
•		O Swamper O Special Auld Helper 54			1
		Supervisor O Truck O Acid O Special Fluid			<del>-</del>
		Fresh Water Key Owned			
~		Fresh Water Non Key			
		BrineWeter Key Owned	<del> </del>		
		Brine Water Non Key	<del></del>		
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		KCL (Potassium Chloride) Powdered			
		KCL Substitute			
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Customer	-	45			rolei	4 M	2 45	i's	: 			County	Parish e	ton		State
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O Face Shi	ields / Goggles	9 <u>P</u>	Wile	el Choc	k/Cones	() Confined	Space Pen	mrt			rk Permit R	•				
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OVEN

Jumping

POTENTIAL HAND AND/OR RINGER HADARDS

RIZ/PICKUPS PUBS/PIS

WITHOUT LOSS

HOCK PISSES & DPEN YOURS

PLESSUE IZE & PASES

Environmental

0 Y EN

.. Pollution (Personal Exposure)

POTENTIAL AT MEK BEHAVIORS
OR OTHER HAZARDS

ALKINS
BOUND

Secure Footing

Hoisting of Tools/Materials

SEQUENCE OF BASIC JOB STEPS

1. Spot Truck
1. Remove Hoses
3. Hook to Jalves
4. Reverse Process

Key Approval - Date:



Date: S M T W T S S Work Ticket No. T753031

Asset	Service Code	Description	Qty	Rate	Total
		O Transport O TransNac Security			
		Minimum 0 130 BBL 0 60-80 BBL 0 50 BBL		- 40	004 .
706320	20012	Hour 0 Barrel 0 Load 0 130 BBL 50-80 BBL 0 50 BBL	72	D:4 1	10
		Pump/Kill TrUCk Minimum 0 130 BBL 0 60-80 BBL 050 BBL			•
		Pump/Kill Truck Hourly 0 130 BBL 0 60-80 BBL 050 BBL			
		Hot Oil Unit Minimum 9 130 BBL 0 75 BBL			
		Hot Oil Unit Hourly 0130 BBL 0 75 BBL			, , , , , , , , , , , , , , , , , , ,
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		Propane			
		Winch TrUCk Minimum O light Duty O Heavy Duty			
		Winch Truck Hourly O Light Duty O Heavy Duty			, ,
		Haul, Set & Deliver Equipment		1	
		O Swamper O Special Fluid Helper		T	
		Supervisor O Truck O Acid O Special Fluid			
		Fresh Water Key Owned "*-		1	
		Fresh Water Non Key			
		Brine Water Key Owned			
		Brine Water Non Key			
		Disposal Key Owned O Solid O BIS		İ	
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		Third Party			
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		KCL 0 2% 0 3% 0 4% O Other			
		Chemicals - Specify:			
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	nployee No.	10 11 12 12 12	(1898)	-	
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PERFER

**Customer Approval - Date:** 

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ACTION TAKEN TO ELIMINATE OR NEBUCE POTENTIAL HAZARDS

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API #:47-71-00021

# State of West Virginia Department of Environmental Protection Office of Oil and Gas

#### Well Operator's Report of Well Work

Farm name:Mallow, Roy & Edith	Farm name:Mallow, Roy & Edith Operator Well No.: Dice #1				
LOCATION: Elevation: _2739 ft ASL	Quad	rangle:Oı	nego		
District:Union_ Latitude:11,880Feet South of38_	Coun	ty:Pen	dleton		
Latitude: 11,880 Feet South of 38	Deg45	_Min32.3	Sec.		
Longitude_9,840Feet West of79_	Deg27	Min04	.5Sec.		
Company:MegaEnergy Operating, Inc	Casing & Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.	
Address: 7374 S. Alton Way, Suite 201	20"	30'	30'	35 sks	
Centennial, CO 80112	13-3/8" 48#	199'	184'	156 sks	
Agent: Paul E. Smith	9-5/8" 36#	2205'	2190'	550 sks	
Inspector: Craig Duckworth	4-1/2" 11.6#	8062'	8047'	550 sks	
Date Permit Issued: 9/20/2007					
Date Well Work Commenced: 5/7/2008					
Date Well Work Completed: 9/3/2008					
Verbal Plugging:			BEC	EIVED	
Date Permission granted on:				T	
Rotary X Cable Rig UDI #51			Οπισε ο	Oll & Gas	
Total Depth (feet): 8560			JAN	2 2009	
Fresh Water Depth (ft.): 412			V,	.,,,,	
			WV Depa	rtment of	
Salt Water Depth (ft.): none			1	al Protection	
	ļ.		Silvironinon	tai i rotoctioi:	
Is coal being mined in area (N/Y)? N					
Coal Depths (ft.):		1	i		
OPEN FLOW DATA					
Producing formationOriskany Sandston	nePay z	one depth (ft	)_7676'-7850'_		
Gas: Initial open flow_618_MCF/d Oil: I	Initial open flo	w	Bbl/d		
Final open flow590MCF/d F	inal open flow	, <del></del> :	Bbl/d		
Time of open flow between initial and	final tests	15 Hour	rs		
Static rock Pressure 2250 psig (surface					
<u> </u>	•				
Second producing formation	Pay zor	ne depth (ft)			
Gas: Initial open flow MCF/d Oil:	Initial open fl	ow -	Bbl/d		
Final open flow MCF/d F	inal open flow	,	- Bbl/d		
Time of open flow between initial and			urs		
Static rock Pressurepsig (surface			ours		
NOTE: ON BACK OF THIS FORM PUT THE					
INTERVALS, FRACTURING OR STIMULATIN					
LOG WHICH IS A SYSTEMATIC PETAILED	GEOLOGICAI	L RECORD (	OF ALL FORMAT	TIONS,	
INCLUDING COAL ENCOUNTERED BY THE	WELLBORE.				
Signed:					
By: J.S. Horner	<del></del>				
Date: /6/15/2668					

## Dice #1: 47-071-00021

Operator: MegaEnergy Operating, Inc.

County: Pendleton, West Virginia

**KB Elevation:** 2779' **GL Elevation:** 2739'

T/Benson: 2580' T/Alexander: 2900' T/Brallier: 5572' T/Sycamore: 5895 T/Harrel: 6950' T/Tully: 7100' T/Mahantango: 7146 T/U. Marcellus: 7334' T/Purcell: 7380' T/L. Marcellus: 7458' 7500' T/Onondaga: T/Needmore: 7538' T/Oriskany: 7674 T/Helderberg: 7878 T/Mandata: 8086

#### **Oriskany Sandstone Completion**

T/Corrigansville:

T/Tonoloway:

8/29/2008: Perforated w/ 3-3/8" HC 3 SPF, 120° phased 7846'-50', 7790'-94', 7756'-60', 7676'-86' BDP-3255 psig, 2.3 bpm @3300 psig. Vol-19.4 bbls. acid vol-300 gal ISIP-2760, ISIP5-2270, Open @400 psig. Flowback 4.1 bbls fluid.

8112'

8378

9/03/2008: Pump 60 bbls Fe Acid-displace w/120 bbls water. Drop 150 balls w/60 bbls acid. Little ball action. Average rate 46.4 bpm, avg. pressure 4814 psig, sand vol-185,404 lbs, ISIP 3667, ISIP5-3229, ISIP10-3081, ISIP15-2987, Clean fluid vol-2416 bbls. Open well at 2750 psig. Flowback well through 2/64 choke. Recovered 1500 bbls. Gas Show.

10/08/2008: 9:00 AM SITP @ 2250#. Flow @296/d for 1 hr then @ 10:00 AM flowed @618/d with 2000# FTP. At 12:00 PM started bringing ¾" stream of fluid with 500# FTP. Flowing @ 590/d at 3:00 AM on 10/9/2008 with FTP @ 200# with 1 ½" stream of fluid.

PBTD @ 8047'

TD @ 8560'

20" conductor @ 30'. Cmt'd w/35 sx

Class A to surface.
24" Hole

13-3/8" 48# H-40 csg

@ 184'. Cmt'd w/156 sx Class A to surface. 17-1/2" Hole

9-5/8" 36# J-55 csg

@ 2190'. Cmt'd w/550 sx Class A to surface. 12-1/4" Hole

TOC @ 5500' est.

4-1/2" 11.6# USS-80 csg @ 8062' KB Cmt'd w/550 sx 8-3/4" Hole



#### 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 Joe Manchin III, Governor Stephanie R. Timmermeyer, Cabinet Secretary www.wvdep.org

September 20, 2007

### WELL WORK PERMIT

#### **New Well**

This permit, API Well Number: 47-7100021, issued to MEGAENERGY OPERATING, INC., 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.

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 drilling, 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 35CSR-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) 926-0499 ext. 1654.

James Martin Chief

Operator's Well No: DICE 1

Farm Name: MALLOW, ROY & EDITH

API Well Number: 47-7100021
Permit Type: New Well
Date Issued: 09/20/2007

Promoting a healthy environment.



#### west virginia department of environmental protection

Oil and Gas Conservation Commission 601 57th Street, Charleston, WV 25304

Joe Manchin III, Governor Stephanie R. Timmermeyer, Cabinet Secretary www.wvdep.org

September 19, 2007

Department of Environmental Protection Office of Oil and Gas Charleston, WV 25304

RE: Application for Deep Well - API #47-071-00021

COMPANY: MegaEnergy Operating, Inc.

FARM: Roy & Edith Mallow – Dice #1

COUNTY: Pendleton DISTRICT: Union QUADRANGLE: Onego

The application for the above company is <u>APPROVED FOR ORISKANY</u>.

Applicant has complied with the provisions of Chapter 22C-9, of the Code of West Virginia, nineteen hundred and thirty-one (1931), as amended, Oil and Gas Conservation Commission as follows:

- 1.) Provided a certified copy of duly acknowledged and recorded consent and easement form from all surface owners; yes
- 2.) Provided a tabulation of all deep wells within one mile of the proposed location, including the API number of the deep well, well name, and the name and address of the operator and; none
- 3.) Provided a plat showing that the proposed location is a distance of <u>400+</u> feet from the nearest unit boundary and showing the following wells drilled to or capable of producing from the objective formation within 3,000 feet of the proposed location.

Sincerely,

Cindy Raines
Cindy Raines
Adm. Secretary

Form: WW - 2B

### STATE OF WEST VIRGINIA

#### DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS

	WELL WORK	PERMIT APPLICATIO	N		522
			- 711	6	5 2
1) Well Operator	MegaEnergy Operating		Pendleton	Union	Onego 7.5'
		Operator I	D County	District	Quadrangle
2) Operators Well	Number: Dice No. 1	3)	Elevation: 2	739'	
4) Well Type: (a) (	Oil or Gas:				
(b) If	Gas: Production: X Deep: X	Underground Storag Shallow:	je		
5) Proposed Targ	et Formation(s): Oriskany Sand	dstone			
6) Proposed Tota 7) Approximate fr	l Depth: 8800' esh water strata depth: 241'				
8) Approximate s	alt water depths: 2900'				
9) Approximate c	oal seam depths: None			- Marie Carlotte San Carlotte San Carlotte San Carlotte San Carlotte San Carlotte San Carlotte San Carlotte Sa	RECEIVED Gas
10) Does land co	ntain coal seams tributary to ac	tive mine? No		Off	ice of Oil & Gas Office of Chief

To Drill & Stimulate a New Well.

12) <u>CASING AND TUBING PROGRAM</u>

TYPE **SPECIFICATIONS** FOOTAGE INTERVALS **CEMENT** Weight per ft For Drilling Left in Well Grade Fill -up (Cu. Ft.) Size 13 3/8" 80' 80' CTS-60 Sacks Conductor Fresh Water Coal Intermediate 9 5/8" 1700' 1700' CTS-550 Sacks 5 1/2" 8800' 8775' 280 Sacks **Production Tubing** Liners

Packers:

Kind

11) Describe proposed well work

Sizes

**Depths Set** 

JULY 10837 ast.

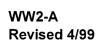
RECEIVED
Office of Oil & Gas
Office of Chief

CLQ 6-19-07

WV Department of Environmental Protection

SEP 1 0 2007

WV Department of Environmente! Protection



1) Date:	May 31, 2007	
2) Operator's	s Well Number	
Dice No. 1		

3) API Well No.: 47 -

071 - 00021

# STATE OF WEST VIRGINIA - BUREAU OF ENVIRONMENT DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS NOTICE AND APPLICATION FOR A WELL WORK PERMIT

4) Surface Owr	ner(s) to be served:	5) (a) Coal Oper	ator
(a) Name	Roy & Edith Mallow $\sqrt{}$	Name	_
Address	HC 78 Box 172	Address	
	Riverton, WV 26814		
(b) Name		(b) Coal Ow	ner(s) with Declaration
Address		Name	None
		Address	
		_	
(c) Name		Name	
Address		Address	
		_	
6) Inspector	Craig Duckworth	(c) Coal Les	ssee with Declaration
Address	Box 107 Davisson Route	Name	
	Gassaway, WV 26624	Address	
Telephone	304-545-2942	_	
OR x Included is the large of t	e information required by Chapter 22, A hat as required under Chapter 22-6 of tion plat, and accompanying document Personal Service (Affidavit attach Certified Mail (Postmarked postal Publication (Notice of Publication and understand Chapter 22-6 and application.	ontract or contract Article 6, Section 8 of the <u>West Virgin</u> ts pages 1 through ed) receipt attached) attached) 35 CSR 4, and I	s by which I hold the right to extract oil and gas  (d) of the Code of West Virginia (see page 2)  ia Code I have served copies of this notice and
			e individuals immediately responsible for obtaining
the information, I I	believe that the information is true, acc	urate and complet	e.
	re that there are significant penalties f	for submitting fals	e information, including the possibility of fine and
imprisonment.	Well Operator	MegaEnergy Ope	rating
	By:	Paul Smith	Paul South
	Its:	Designated Agen	
	Address	9085 E. Mineral C	
		Englewood, CO	80112
	Telephone	<u>720-875-9810</u>	
Subscribed and st	worn before me this $\underline{\qquad}$ day of	June	<u> </u>
My Commission E	D. Buryoughs expires October 19,2	2016	Notary Public





Operator's Well Number

Dice No. 1

MegaEnergy Operating

Designated Agent

Paul Smith

# INFORMATION SUPPLIED UNDER WEST VIRGINIA CODE Chapter 22, Article 6, Section 8(d) IN LIEU OF FILING LEASE(S) AND OTHER CONTINUING CONTRACT(S)

Under the oath required to make the verification on page 1 of this Notice and Application, I depose and say that I am the person who signed the Notice and Application for the Applicant, and that –

(1) the tract of land is the same tract described in this Application, partly or wholly depicted in the accompanying plat, and described in the Construction and Reclamation Plan;							
(2) the parties and recordation data (if recorded) for lease(s) or other continuing contract(s) by which the Applicant claims the right to extract, produce or market the oil or gas are as follows:							
Grantor, lessor, etc.	Grantee, lessee, etc.	Royalty	Book/Page				
MegaEnergy Operating, Inc.	Roy G. & Edith E. Mallow, et at	1/8 <sup>th</sup>	19/514				

Well Operator:

By: Its: FORM WW2-B1

071-00021

# West Virginia Department of Environmental Protection Office of Oll and Gas

#### NOTICE TO SURFACE OWNERS

The well operator named below is preparing to file for a permit from the state to drill a new well. Before a well work permit can be filed with the Chief of the Office of Oil and Gas, the well operator is required to have given notice of the right to request water well or spring analytical testing. This notice shall be given to the owners or occupants of land which have a water well or spring being utilized for human consumption, domestic animals, or other general use and which is located within 1000 feet of the proposed well site.

With this form, the operator is giving you notice of your right to request analytical testing. The operator is required to sample and analyze the water wells or springs of all owners or occupants who request it. Therefore, if you wish to have your water well or spring tested, contact the operator named below.

All sampling shall be completed prior to drilling. Within thirty (30) days of the receipt of such sample analyses the operator shall submit the results to the Chief of the Office of Oil and Gas and to the owners or occupants who may have requested them.

If no water well or spring is located within 1000 feet, the Chief may require the operator to sample and analyze water from a water well or spring within 2000 feet of the proposed well site.

Be advised, you have the right to sample and analyze any water supply at your own expense.

The laboratory used by the operator to analyze the samples will be approved by the Chief. The operator named below has decided to use the following laboratory to analyze the water samples:

X Contractor Name	Smith Land Surveying, Inc. – Environmental Division
Well operator's pri	vate laboratory
Well Operator	MegaEnergy Operating
Address	9085 Mineral Circle
	Englewood, CO 80112
Telephone	720-875-9810

FOR OPERATOR'S USE ONLY: Below, or on an attached page, list those persons which were given this notice. Place an asterisk beside the one(s) that contacted you and requested sampling and analyses. If there were no requests made, indicate by underling which one you have selected to sample and analyze. If there are no water wells or springs within 1000 feet of the proposed site please indicate such.

#### Dice No. 1

NOTE: There appears to be 2± potable water sources within 1,000', therefore tests will be offered and samples taken as required.

DCR 3/21/03

Pa	ge _	<u>. 4</u>		ρf		8		
API Number 47	U	<u>_</u>	0-tm	U	Ü	U	2	1
Operator's Well No.	Dic	e No	o. 1					

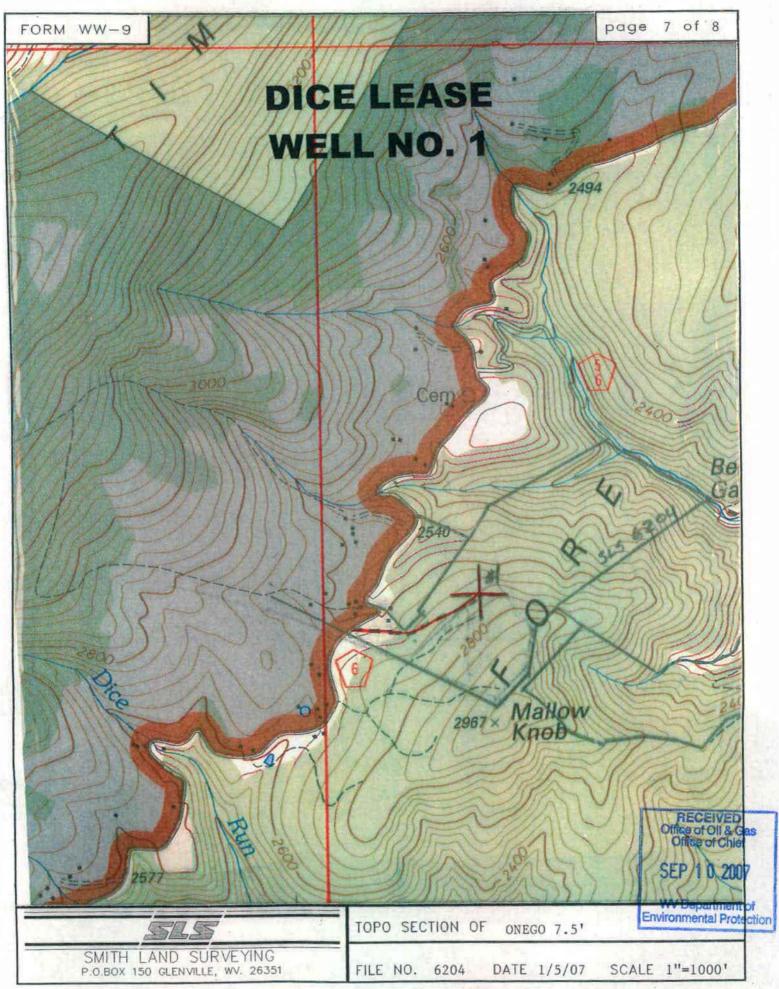
#### STATE OF WEST VIRGINIA

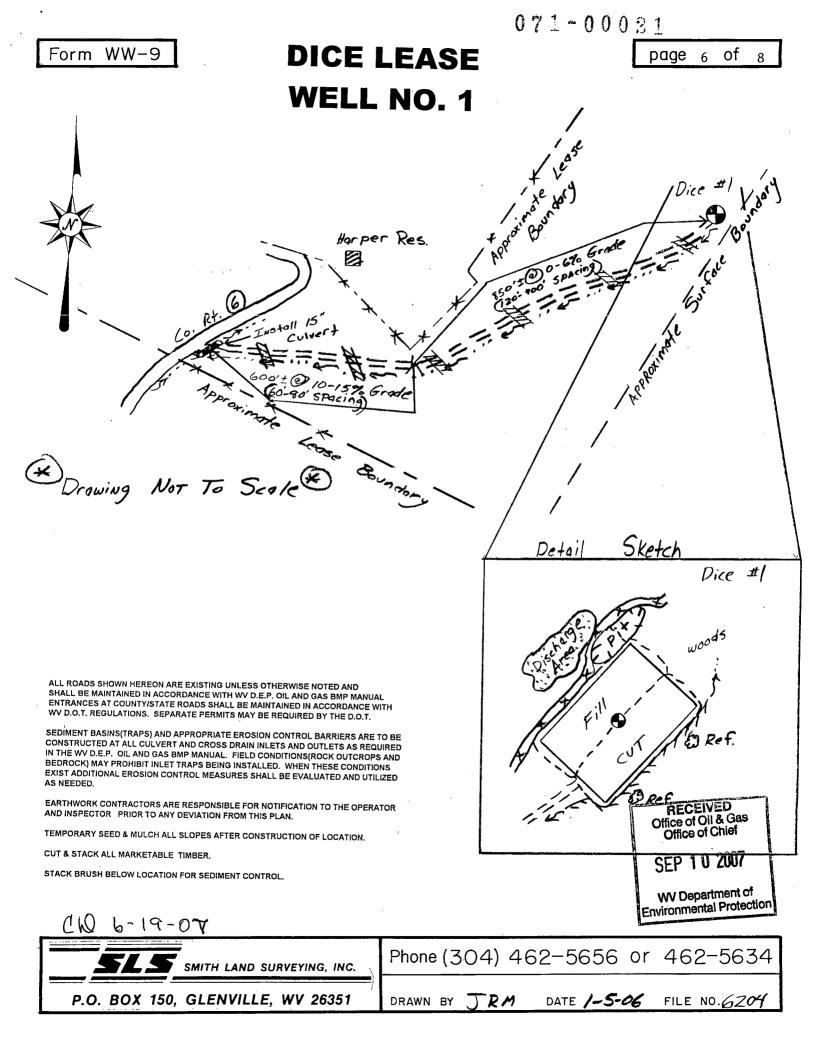
#### DIVISION OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS CONSTRUCTION AND RECLAMATION PLAN AND SITE REGISTRATION APPLICATION FORM GENERAL PERMIT FOR OIL AND GAS PIT WASTE DISCHARGE

Operator Name MegaEnergy Operating, Inc. OP Code	
Watershed <u>Tributary of North Fork of South Branch of Potomac River</u> Quadrangle <u>Onego 7</u>	<u>'.5'</u>
Elevation 2739 County Pendleton District	<u>Union</u>
Description of anticipated Pit Waste:Drill Water, Frac Blow Back & Various Formation C	uttings
Will a synthetic liner be used in the pit? Yes, if impervious material is not available on site.	
Proposed Disposal Method For Treated Pit Wastes:    X	
Proposed Work For Which Pit Will Be Used:              \( \times \)               \( \times \)               \( \times \)              \( \times \)               \( \times \)          \( \times \)          \( \times \)          \( \times \)          \( \times \)          \( \times \)          \( \times \)          \( \times \)          \( \times \)          \( \times \)          \( \times \)          \( \times \)          \( \times \)          \( \times \)          \( \times \)          \( \times \)	
	nental Protection. I understand that the neral permit and/or other applicable law with the information submitted on this is immediately responsible for obtaining
Company Official (Typed Name) Paul E. Smith	
Company Official Title President - Operator	
	20_ <b>07</b> ary Public
My commission expires October 19, 2010  OFFICIAL SEAL NOTARY PUBLIC STATE OF WEST VIRGINIA	Office of Oil & Gas Office of Chief SEP 1 0 2007
Kristy A. Burroughs H.C. 35, Box 63 Burnsville, WV 26335	WV Department of Environmental Protection

#### LEGEND

Property Boundary	Diversion Legitle 111111111111111111111111111111111111
Road = = = = = = = = =	Spring
Existing Fence — X — X — X —	Wet Spot
Planned Fence / / /	Drain Pipe with size in inches
Stream Stream	Waterway $\longleftrightarrow$
Open Ditch	Cross Drain 7/1/1/1/1/1/1/1/1/1/1/1/1/1/1/1/1/1/1/1
Rock of Segge	Artificial Filter Strip XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
North N	Pit: cut walls
Buildings	Pit: compacted fill walls
Water wells W	Area for Land Application of Pit Waste
Drill site	
	26
Proposed Revegetation Treatment: Acres Disturbed	
Lime3 Tons/acre or to correc	t to pH6.5
Fertilizer (10-20-20 or equivalent) 1/3 TON	Ibs/acre (500 lbs minimum)
Mulch HAY 2	_Tons/acre
	Seed Mixtures
Area I	Area II
Seed Type lbs/acre	Seed Type lbs/acre
KY-31 40	ORCHARD GRASS 1-5
ALSIKE CLOVER 5	ALSIKE CLOVER 5
ANNUAL RYE 15	
Attach:	
Drawing(s) of road, location, pit and proposed area for	RECEIVED
Photocopied section of involved 7.5' topographic sheet.	Office of Oil & Gas Office of Chief
	SEP 1 0 2007
Plan Approved by: Craig Durkworth	WV Dapartment of
Plan Approved by: Craig Durbworth  Title: 01 4 Gas Inspector	Date: 6-19-D7 Environmental Protection
Field Reviewed? (XYes (	) No





#### **CERTIFICATE OF CONSENT AND EASEMENT**

145

We, the undersigned, for valuable consideration, the receipt and sufficiency of which is hereby acknowledged, being all the owners of the surface of that certain lot, tract or parcel of land located on Map 57 parcel 4, 5 and 11 in Union District, Pendleton County, State of West Virginia, shown on the attached plat or survey, do hereby consent and grant an easement, pursuant to West Virginia Code, Section 22C-9-7 (b)(4) and Operating Rule 4.4 of the Rules and Regulations of the West Virginia Oil and Gas Conservation Commission, to Mega Energy, Inc. its successors or assigns, for the drilling and operation of a deep well from the production of oil or gas at the location shown on the attached plat or survey.

Executed this 14 day of June, 2007.
Elith Em allow, For R  Roy Mallow  L Slith E. Mallow  Edith Mallow
State of West Virginia County of <u>Pendleton</u> To-wit
I A. Burroughs, a Notary Public/Commissioner in and for the aforesaid County and State, so hereby certify that  Edith Mallow, whose name(s) is/are signed to the writing above, bearing date on the day of June, 2007, has(ve) this day acknowledged the same before, in my said County and State.
OFFICIAL SEAL NOTARY PUBLIC STATE OF WEST VIRGINIA Kristy A. Burroughs H.C. 35, Box 63 Burnsville, WV 26335 My commission expires October 19, 2016  My Commission expires on Oct. 19, 2016
State of West Virginia County of Pendleton To-wit
I Kristy A. Burrous hs, a Notary Public/Commissioner in and for the aforesaid County and State, so hereby certify that  Roy MALLOW BY ELITE. MALLOW , whose name(s) is/are signed to the writing above, bearing date on the day of June, 2007, has(ve)  this day approached ged the same before, in my said County and State.
STATE OF WEST VIRGINIA Kristy A. Burroughs H.C. 35, Box 63 Burnsville, WV 26335 My commission expires October 19, 2016 Notary Public/Commissioner
My Commission expires on Oct. 19, 2016

#### SURFACE OWNER WAIVER

County

Pendleton

Operator

MegaEnergy Operating

Operator well number

Dice No. 1

#### **INSTRUCTIONS TO SURFACE OWNERS NAMED ON PAGE WW2-A**

The well operator named on page WW2A is applying for a permit from the State to do oil or gas well work. (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 57<sup>th</sup> St.
Charleston, WV 25304
(304) 926-0452 Extension 1652

OR District Oil and Gas Inspector (Name and address listed on page WW2-A)

<u>Time Limits and methods for filing comments.</u> The law requires these materials to be served on or before the date the operator files his Application. You have FIFTEEN (15) 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.

<u>Comments must be in writing.</u> 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.

<u>List of Water Testing Laboratories.</u> The Office maintains a list of water testing laboratories which you can hire to test your water to establish water quality prior to and after drilling. Contact the Chief to obtain a copy.

#### **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 Well Work Permit on Form WW2-A, and attachments consisting of pages 1 through \_\_\_\_ including a work order on Form WW2-B, a survey plat, and a soil and erosion plan, all for proposed well work on my surface land as described therein.

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			FOR EX	XECUTION BY A CO	RPORATION, ETC.
Edith E. mallow	Date	10-14-07	Name	•	
Signature	-	<b>—</b>	Ву		
			Its		Date
				Signature	Date
					FEREIVED

RECEIVED
Office of Oil & Gas
Office of Chief

SEP 10 2007

WV Department of
Environmental Protection



# The Senate of Mest Nirginia Charleston

CLARK S. BARNES 1105 HARRISON AVENUE ELKINS 26241 December 29, 2008

Bus: (304) 636-5146

Lisa McClung
Deputy Cabinet Secretary, DEP
601 - 57th Street
Charleston, WV 25304

Dear Ms. McClung:

I have enclosed a letter from Mr. Dale Harper of the Seneca Rocks area of Pendleton County regarding information that was to be provided to him relative to the "Dice" Well Site located just a few hundred feet above his residence.

At the time of the drilling operation, I spoke with Mr. Hatfield and Mr. Martin personally voicing the concerns for water quality in the area. They indicated to me that the information requested by Mr. Harper would be provided to him.

Upon my personal inspection of the well site at that time, I found an empty pit with a liner that was ripped and not even properly secured. Mr. Harper was later told that the fluid from the pit was ground applied (further endangering his water supply). I wonder how material from an empty pit could be ground applied. Am I to assume that a pit which allows fluids to escape into the ground is considered ground application?

I found your employees to seem quite sympathetic to my concerns regarding water source and discharge, but their treatment of the adjacent landowner to be rather callous and seemingly unconcerned.

I now join with Mr. Harper in requesting that all information regarding this drilling operation by released to me under the "Freedom of Information Act." This is to include permits, water tests at the site and the required nearby residences, inspection reports, chemical materials list, depth of well, horizontal drilling report, all internal memos, and a report of all meetings, breakfasts, lunches, and dinners which were attended by inspectors, and other DEP personnel with personnel, managers, or owners of any companies or individuals involved in the drilling, supply, or maintenance of this operation and any other pertinent information.

Your anticipated cooperation in this matter is greatly appreciated.

Banus

Sincerely,

Clark S. Barnes Senate Minority Whip JAN - 2 2009

WAY DEPARTMENT OF ENVIRONMENTAL PROJECTION
EXECUTIVE OF FICE

HC78, Box167 Riverton, WV 26814 9700 Oct. 20, 2008 SENATOR CLARK BARNES Room 203 W. Bldg. 1 State Capital Complex Charleston, WV 25305 HONORAble SENATOR BARNES: I AM Requesting under the Freedom OF INFORMATION Act, the Following: A Copy of the Results From the water SAMPLES TAKEN FROM MY WELL, AT MY House, Thursday August 28, 2008 By ENVIROMENTALIST BILL HAT Field, Who Promised to send me a copy of the Test Results, but Never has Also I want A Copy OF the Dice GAS Site DRILLING PERMIT INCLUDING A MAP OF the DRIlling operation done Ventical and Horizonal And the solutions used in the DRIlling Operation All At the Dice GAS DRILLING Site All this INFORMATION WAS promised to be sent to me by MR Bill HATField, but he Never did.

Sincerely, Wale & Harper

Gold A Discharge

#### **MEMORANDUM**

To: Randy Huffman, DEP Cabinet Secretary

From: James Martin, OOG Chief

Date: September 5, 2008

Subject:September 2, 2008 Fax from Delegate Michael

I provide the following information regarding the OOG's response to Mr. Dale Harper's complaint which is the subject of Delegate Michael's fax:

June 16, 2008	Mr. Harper files complaint through the spill line of black sludge and white foam potentially coming from a drilling site.
June 18, 2008	Inspectors Hatfield and Duckworth visit the site to investigate complaint. No black sludge/foam was found. Hatfield tried to contact Mr. Harper but was unsuccessful. He later discovered that he had the wrong phone number.
July 2, 2008	Hatfield and Duckworth made a follow-up inspection and again found no contamination/black sludge or foam problems.
August 1, 2008	Hatfield met with Mr. Harper for a couple of hours. Mr. Harper did not identify any problems or show Hatfield the black sludge or foam. Mr. Harper did indicate that while he had not observed any problems with his well water, he would like to have it re-tested.

August 20, 2008 Hatfield and Duckworth visited the site. No black sludge or foam was discovered. No evidence of pit leakage was observed.

August 28, 2008 Hatfield, OOG Inspector Jenkins, and DAQ Inspector Richard Poling met with Mr. Harper and inspected the wellsite. No environmental problems were observed and Mr. Harper did not identify any problems. Hatfield did take a water sample from Mr. Harper's water well. Mr. Harper has a softener on his well and says it is not in use. An iron residue was observed on the floor of Mr. Harper's well house.

#### A few other notes:

Hatfield does not recall witnessing the pit liner being partially down, as alleged, but he doesn't specifically recall that it wasn't down. He states that the pit had approximately 6 or 7 feet of freeboard during his inspections.

While the company would be permitted to land apply the drilling fluids under the conditions of the

Water Pollution Control General Permit, the company has indicated that they
will likely haul the fluids to a disposal facility.

The subject well, API # 47-071-00021, was permitted by MegaEnergy Operating, Inc. as a deep well. The proposed target formation listed in the application is the Oriskany Sandstone.

GREENWAY ENGINEERING

08-21-08 09:33



Fax sent by : 5407229528

### RELIANCE LABORATORIES, INC.

BENEDUM INDUSTRIAL PARK ROAD POST OFFICE BOX 4867 BRIDGEPORT, WV 26330-4657

VOICE: 304-842-5285 FAX: 304-842-5351 E-MAIL <relianceleba@wwdsl.net>

RIDGEFIELD BUSINESS CENTER 25 CRIMSON CIRCLE MARTINSBURG, WY 25400

VOICE: 384-696-2084 FAX: 304-396-2006

SMITH LAND SURVEYING, INC.

P.O. BOX 150. **OLENVILLE** 

26351

Monday, Pebruary 84, 2684

RECEIVED FEB 0 5 2008

Lab Number 110672-2008-DW Sample ID 6204/HARPER/DICE 1

Parameter	Value	Units	Michiga	Date/Time Analysis	Antilyot	POL	mcL.
Total Aluminum	ND	mg/l	EPA 200.7	1/30/2008 11:27	T.Hanshaw	0.04	[0.03]
Total Barium	0.08	mg/l	EPA 260.7	1/30/2008 11:27	T.Henshaw	0.05	2.0
Total Iron	0.06	n\( \bar{\pi} \)	EPA 200.7	1/30/2008 11:27	T.Hanshaw	0.01	[0.3]
Total Alkalinity	126	mg/l	SM23208	1/25/2008 11:50	A. Ash	2.81	
Turbidity	0.4	N.T.U.	EPA (80.1	1/19/2008 9:35	T. Miller	0.22	
E. coli (Chromogenic)	Absent		SM9223B	1/15/2008 10:58	C. Parker		
Total Coliform (Chromogenic)	Absent	·	SM92238	1/15/2008 10:58	C. Parker		
Total Chloride	1.24	mg/l	BPA 300.0	1/31/2008 22:27	A. Ash	0.15	[250]
Total Manganese	0.33	mg/l	EPA 290.7	1/30/2008 11:27	T.Henshew	0.01	[0.05]
Total Organic Carbon	ND	mg/l	SM5310C	1/31/2008 11:30	A. Ash	2	
pH	7.37	S.U.	SM430081+B	1/21/2008 14:00	T.Hanshaw		
Total Dissolved Solids	178	mg/l	SM 2500C	1/17/2008 9:45	T. Miller	10	[500]
Total Surfactant	ND	mg/l	SM5540C	1/16/2008 8:20	T. Miller	0.2	[0.5]

BSTEWART 1/15/2008

"Method Code: STANDARD INSTINCTOR 16TH ED; US EPA INSTINCTOR FOR THE CHEMICAL WASTES, Raw, IS; US EPA INSTINCTOR FOR THE INSTINUTION OF INSTITUS IN ENVIRON TEST METHODS FOR EVALUATING SOLID WARTE; SHI-SHI, 3rd EMISSA.

08-21-08 09:36

Pg: 6/11

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	:			JOB#
* * *				SITE#_/_
ESIDENT/DWELLING	INFORMATION	CLIENT/COMP	a maderian	
DDRESS: MC 7	8 Bax 167	WELL NO:	MALE.	
WNER RENT	WY 2194	LOCATION:		
	567-2168			
YPE OF WELL: DRI	LED DUG			ilijan aleit Orijanja seed
EPTH OF WELL: 13	3	n a company		
ATE WELL WAS DRIL		EASING:	TYPE OF PUMP:	<del>i il</del>
OBS OWNER/OCUPAN	IT HAVE ADDITION	VAL WATER SOURCE	YES NO	
DESCRIBE)				·
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resent condition ( Ron Stains in Sink_ Bason for Samplin	BAD SM	1	ASTB	
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RON STAINS IN SINK_ BASON FOR SAMPLIN VATER SAMPLE COLL: ITCHEN SINK_X	BAD SMI IG: PRE-DRILI ECTION POINT:	POS DATE OF 1	T-DREL SAMPLE	
ON STAINS IN SINK_ BASON FOR SAMPLIN VATER SAMPLE COLL ITCHEN SINK	BAD SME  IG: PRE-DRILL  ECTION POINT:  BATHROOM SIN  OTHER	POS DATE OF 1	T-DREL SAMPLE	
ON STAINS IN SINK_ BASON FOR SAMPLIN ATER SAMPLE COLL TCHEN SINK	BAD SME  IG: PRE-DRILL  ECTION POINT:  BATHROOM SIN  OTHER	POS DATE OF 1 <sup>2</sup> K OUTSID SAMPLE	T-drul Sample E spigot	
ON STAINS IN SINK_ BASON FOR SAMPLIN ATER SAMPLE COLL ITCHEN SINK_ ATLED FROM WELL	BAD SIME  IG: PRE-DRILL  ECTION POINT:  BATHROOM SIN  OTHER  TIED: 1 - 14 - 68	POS DATE OF 1 <sup>2</sup> K OUTSID SAMPLE	T-drul Sample E spigot	
ON STAINS IN SINK_ BASON FOR SAMPLIN VATER SAMPLE COLL ITCHEN SINK	BAD SIME  IG: PRE-DRILL  ECTION POINT:  BATHROOM SIN  OTHER  TIED: 1 - 14 - 68	POS DATE OF 1 <sup>2</sup> K OUTSID SAMPLE	T-drul Sample E spigot	
ON STAINS IN SINK_ BASON FOR SAMPLIN VATER SAMPLE COLL ITCHEN SINK	BAD SIME  IG: PRE-DRILL  ECTION POINT:  BATHROOM SIN  OTHER  TIED: 1 - 14 - 68	POS DATE OF 1 <sup>2</sup> K OUTSID SAMPLE	T-drul Sample E spigot	
RON STAINS IN SINK_ BASON FOR SAMPLIN VATER SAMPLE COLL ITCHEN SINK AILED FROM WELL_	BAD SIME  IG: PRE-DRILL  ECTION POINT:  BATHROOM SIN  OTHER  TIED: 1 - 14 - 68	POS DATE OF 1 <sup>2</sup> K OUTSID SAMPLE	T-drul Sample E spigot	
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RON STAINS IN SINK_ BASON FOR SAMPLIN VATER SAMPLE COLL ITCHEN SINK AILED FROM WELL_	BAD SIME  IG: PRE-DRILL  ECTION POINT:  BATHROOM SIN  OTHER  TIED: 1 - 14 - 68	POS DATE OF 1 <sup>2</sup> K OUTSID SAMPLE	T-drul Sample E spigot	
ron stains in sink_ Bason for samplin Vater sample coll:	BAD SIME  IG: PRE-DRILL  ECTION POINT:  BATHROOM SIN  OTHER  TIED: 1-19-08	POS DATE OF 1 <sup>2</sup> K OUTSID SAMPLE	T-drul Sample E spigot	
RON STAINS IN SINK_ BASON FOR SAMPLIN VATER SAMPLE COLL ITCHEN SINK AILED FROM WELL_	BAD SIME  IG: PRE-DRILL  ECTION POINT:  BATHROOM SIN  OTHER  TIED: 1-19-08	POS DATE OF 1 <sup>2</sup> K OUTSID SAMPLE	T-drul Sample E spigot	

WATERSAMPLEFIELDREPORTOI

08-21-08 09:38

Pg: 8/11



### DATA INFORMATION SHEET FOR WATER WELL SAMPLING

NOTE: This Information Will Be Passed On To The	Person Garbering Water Samples!
Date 5/3/07 Client Mag	File# SZOY
Crew Chief Justin Meadows	2 <sup>-1</sup> Full Turk 4
Lease Name: Dice	wara. /
County Pendleton	Number of possible 2
Topo Onego	
Have you made any contact with surface owners?  (if yes, who and list/describe below)	7e
Did you check the entire radius? (If No, specify below)	Yes X 100
Have you spotted all sample sites on a topo? (Attach copy)	
Please note any distinguishable landmarks that a smucture, color, road junctions, etc. Please be as approximately an experience of the second statement of the second statemen	and as the will allow.
1000 2	4-2
N. S. S.	

Results Authorized By:

Pg: 10/11

#### RECEIVED FFB 0 5 2

### Reliance Laboratories, Inc. Sample Collection Procedure and Chain of Custody Water Sampling

- 1. Samples should be grab samples and should be taken from a cold water tap where drinking water tap where drinking winer or water for human communities is normally obtained.
- Sample bottles should be handled aseptically in prevent containation of samples. Do not touch the inside of the buttles of cape. Do not allow effect to beach the fances.
- 3. Open the cold water tap and allow water to ran evenly for three to five satatites in order to equilibrate system. Generally, the water temperature will stabilize indicating complete equilibration.
- 4. Fill all containers completely allowing no air space to remain.

# Microbiological/Bacteriological Samples Only

Collect at least 100 ml of sample (to the mind on the sample contribut). After our (1) lack of air space in the sample container. Water tags species for sampling seas be free of purification devices. THE SAMPLE CONTAINER IN STERUE. THE PILL INCLUDED IN THE CONTAINER REMOVES CHEORINE RESEDUAL, Samples should be analyzed within 30 hrs of collection (HPC 8 hrs). Samples should remain cor = 10 degrees C during shipment.

- 5. Close bottles tightly. Write name, date there of sampling, and area where sample was taken on the bottle and on the Chain of Custody form. HE SURE TO INCLUDE ALL INFORMATION REQUESTED ON THE CHAIN OF CUSTODY FORM. THIS FORM MUST BE COMPLETED USING INDBILIBLE INK.
- 6. Carefully pack all sample containers when samples to the laboratory.

CAUTION: Some sample bottles commin states and reagents which are corrective and

Ship/deliver: Reliance Laboratories, Dic. Boneston: Industrial Park P.O. Box 4657 Bridgeport, West Visital 263-0

should be handled carefully. If respents come he counses with skip, h Firm: <u>Smith</u> Lond Address: 18 Rocko Glennille Telephone (304) 442 - 5674 Public Water System (PWS) LD. # Describe Sample Location : 1209/Har Sample Date: pio Cinie: Collected By: Ran C icrosed By: Date Received at Lab: Shipper/Tra Proper Preservatives: roper Contabara Ca Holding Times Observed:

Districtment Resident



## RELIANCE LABORATORIES, INC.

BENEDUM INDUSTRIAL PARK **ROAD POST OFFICE BOX 4657 BRIDGEPORT, WV 26330-4657** 

ENVIRONMENTAL ANALYSTS AND **CONSULTANTS** 

RIDGEFIELD BUSINESS CENTER 25 CRIMSON CIRCLE MARTINSBURG, WV 25403

VOICE: 304-595-2084 304-596-2086 FAX:

VOICE: 304-842-5285 FAX: 304-842-5351

E-MAIL <reliancelabs@wvdsl.net>

SMITH LAND SURVEYING, INC.

P.O. BOX 150

**GLENVILLE** 

WV

26351

Tuesday, August 26, 2008

Lab Number 119980-2008-DW Sample ID 6204/HARPER/DICE 1

Parameter	Value	Units	Method	Date/Time Anal	yzed	Analyst	PQL	MCL
Total Aluminum	ND	mg/l	EPA 200.7	8/26/2008	13:32	T.Hanshaw	0.04	[0.05]
Total Barium	0.09	mg/l	EPA 200.7	8/26/2008	13:32	T.Hanshaw	0.05	2.0
Total Iron	1.44	mg/l	EPA 200.7	8/26/2008	13:32	T. Hanshaw	0.01	[0.3]
Total Alkalinity	129	mg/l	SM2320B	8/22/2008	13:00	M.Coffman	2.81	
Turbidity	10	N.T.U.	EPA 180.1	8/21/2008	15:20	P.Rogers	0.22	
E. coli (Chromogenic)	Absent		SM9223B	8/21/2008	15:10	A.Seitz		
Total Coliform (Chromogenic)	Absent		SM9223B	8/21/2008	15:10	A.Seitz		
Total Chloride	3.32	mg/l	EPA 300.0	8/26/2008	15:05	T. Miller	0.15	[250]
Total Manganese	0.29	mg/1	EPA 200.7	8/26/2008	13:32	T.Hanshaw	0.01	[0.05]
Total Organic Carbon	ND	mg/l	SM5310C	8/22/2008	14:30	A.Scitz	0.1	
pН	7.55	S.U.	SM4500H+B	8/22/2008	13:00	M.Coffman		
Total Dissolved Solids	338	mg/l	SM 2540C	8/22/2008	13:00	L.Lanham	10	[500]
Total Surfactant	ND	mg/l	\$M5540C	8/21/2008	15:30	P.Rogers	0.2	[0.5]

Remarks:

Date Sample Collected Sample Submitted By

8/21/2008 M SHIFLET 10:45

PRELIMINARY REP

Date Sample Received: MDL - Minimum Detectable Limit

8/21/2008

14:07

PQL - Practical Quantifiable Limit

MCL - Meximum Confaminant Level, USEPA Regulated

[MCL] = Maximum Contaminent Level, Non-Regulated

Drinking Water Reports are maintained by the Laboratory for a period of five years from the date of analysis, Method Code: BTANDARD METHODS 18TH ED; US EPA METHODS FOR THE CHEMICAL ANALYSIS OF WATER AND WASTES, Rev. 83; US EPA METHODS FOR THE DETERMINATION OF METALS IN ENVIRONMENTAL SAMPLES, May 1894; TEST METHODS FOR EVALUATING SOLID WASTE, SW-846, 3rd Edition

NOTE: ND or Not Detected Indicates that the analytical value obtained is below the practical quantifiable limit (PQL) which is equivalent to the lowest standard utilized in preparation of the method calibration curve

ATTN:
bene Smith

This is the results for

Dice#1, Dale Hosper,

Samples token on

8-21-08

# Eturm Environmental Ervices

COMPANY:

WVDEP / CHARLESTON

DATE/TIME SAMPLED:\* 08-28-08 0945

SAMPLE I.D.:

DATE/TIME RECEIVED: 08-28-08 1325

SAMPLED BY: BILL HATFIELD

Sample taken at water well

SAMPLE ID	pH units	Hot Acid mg/I CaCO₃	Min Acid mg/l CaCO₃	Alk mg/l CaCO <sub>3</sub>	Fe ppm	Mn ppm	TSS ppm	Cond umhos	SO₄ ppm	MBAS ppm	Cl- ppm	TOC ppm
DALE HARPER	7.0	<1	0	137	1.43	.27	2	279	17	<.01	1.4	1.8
- 1000												
												<del>                                     </del>
											-153	
							1			REC	o Oil & Gas	
										Office,	10 2008	s.
* Client provided	X Compliant	Non-con	npliant			<u> </u>		,		WV I	Meural S. Sebartuer	orection
										Ellan		

Client provided	X Compliant	Non-compliant

**Approved** 



#### **MICROBIOLOGY**

COMPANY:	WVDE	P / CHARLESTON		DATE & TIME SAMPLE	D:* SEE BELOW
SAMPLED BY:	BILL HA	ATFIELD		DATE & TIME RECEIVE	ED: 08-28-08 1325
ANALYST:	JMS			DATE & TIME ANALYZ	ZED: 08-28-08 1343
METHOD:	3			CHEMISTRY: Yes	XNo
					or Multiple amples Only
SAMPLE ID		TOTAL COLIFORM P/A	E. COLI PA	* DATE/TIME SAMPLED	LOG NO.
DALE HARPER		ABSENT	ABSENT	08-28-08 0945	CHAR 080828-1
	<del></del>				
<del> </del>			, , , , , , , , , , , , , , , , , , , ,		
······································					
			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
	<del>:</del>				
Method of Analy	sis from '	Standard Methods for the E	xamination of Water and	 Wastewater," 19 <sup>th</sup> Ed., 199	5
1 – MPN – Meth 2 – MF Meth 3 – "Colilert" – r	od 9221C od 9222B nmo-mug	2, pg. 9-48 3, pg. 9-54 - Method 9223, pg. 9-64.			JBBL Approved
X Compliant	_Non-Coi	mpliant (see attached)			

# Eturm Environmental Eervices

COMPANY: WVDEP / CHARLESTON

PARAMETER	DATE ANALYZED	INITIALS OF ANALYST	METHO	D	DETECTION
pН	B 29 68	mm	SM19th 4500 H B		LIMITS (mg/l)
Hot Acid		10.0.00	SM19th 2310 B (4a)		0.1
Mineral Acid	- 4D	7777	SM 2310, Tritrametric		1
Alkalinity	829.68	mm	SM19th 2320 B		1
Iron	9-4-08	AL	EPA 200.7 Rev 4.4-1994		1
Dissolved Iron			EPA 200.7 Rev 4.4-1994		.05
Manganese	9-4-08	AR	EPA 200.7 Rev 4.4-1994		.05
TSS - Total Suspended Solids	8/09/0	pn	SM19th 2540 D		.01
TDS - Total Dissolved Solids	8100		SM19th 2540 C		1
Conductivity	8.28.08	的形	EPA 120.1 Rev-1982		1
Sulfate	9-3-08	TES	EPA 300.0 Rev 2.1-1993		I umhos
Aluminum	9-4-07	- AC	EPA 200.7 Rev 4.4-1994		1
Dissolved Aluminum	- Paris		EPA 200.7 Rev. 4.4-1994 EPA 200.7 Rev. 4.4-1994		0.05
Calcium	<del>- • • • • • • • • • • • • • • • • • • •</del>				0.05
Magnesium	<del></del>		EPA 200.7 Rev 4.4-1994		0.01
Hardness (calc)			EPA 200.7 Rev 4.4-1994		0.01
Chloride `	9-3-08	TES	EPA 200.7 Rev 4.4-1994		1
NH₃N	<u> </u>	105	EPA 300.0 Rev 2.1-1993		1.0
Settleable Solids			SM19th 4500NH3B + SM19	th 4500 NH₃C	0.06
Phenol	<del></del>		SM 19 <sup>th</sup> 2540 F		.1 ml/l
Turbidity			EOA 420.2 1983		.01
Oil & Grease		<del></del>	SM19th 2130 B		0.01
Ferrous Iron			EPA 1664A Gravimetric Ext	raction	3.0
Ferric Iron	<del></del>		SM 3500 Colorimetric		.05
BOD	<del></del>		Calculation		.05
COD			SM19th 5210B		1.0
TOC	9-2-08	- 02	HCAH 8000		2.0
MBAS	8-29-8	Sul	SM19th 5310B		1.0
TKN	<del></del>		SM19th 5540C		.01
TPO₄	·		SM19th 4500 N org + SM19	th 4500 NH3E	.10
Selenium (furnace)	<del></del>		SM19th 4500P B.5 + SM19t	h 4500 P E	.01
Sulfide	<del></del>		EPA 200.9		.0006 mg/l
Nitrate		<del></del>	SM19th 4500 S2 F		.50
Nitrite	<del></del>		EPA 300.0 Rev 2.1-1993		.01
Bromide	<del></del>	<del></del>	EPA 300.0 Rev 2.1-1993		.01
Fluoride			EPA 300.0 Rev 2.1-1993		.01
Nitrate-Nitrite	<del></del>		EPA 300.0 Rev 2.1-1993		.01
Hexavalent Chromium			EPA 300.0 Rev 2.1-1993		.01
Cyanide			SM19th 3500 - CrD	6	.01
Ortho-Phosphate			EPA 335.4 Rev 1.0-1993	10000000000000000000000000000000000000	0.005
Antimony		<del></del>	SM19th 4500P E	LINIA DANG SECONO SECON	.01
Arsenic		<del></del>	SM19th 3113 B		.005
Barlum			SM19th 3113 B		0.001
Beryllium (furnace)	<del></del>	<del></del>	EPA 200.7 Rev 4.4-1994		0.10
Beryllium	<del></del>		SM19th 3113 B	- Ka   0'	<sup>⊇</sup> ∦0005
Boron			EPA 200.7 Rev 4.4-1994		<b>0</b> .005
Cadmium (furnace)	<del></del>		EPA 200.7 Rev 4.4-1994		10 ·
Cadmium	<del></del>		SM19th 3113 B		.0005
Chromium (furnace)	<del></del>		EPA 200.7 Rev 4.4-1994	~	.005
(	<del></del>		SM19th 3113 B		.001

EPA-United States Environmental Protection Agency, "Method for the Chemical Analysis of Water and Waste," EPA 600/4-79-020, March 1979. SM-Standard Methods for the Examination of Water and Wastewater, 18th Edition.

STURM ENVIRONMENTAL SERVICES
P.O. BOX 650 BRIDGEPORT, WV 26330
(304) 623-6549

FAX: (304) 623-6552

# STURM ENVIRONMENTAL SERVICES CHAIN OF CUSTODY RECORD

CHARLESTON OFFICE 321 4<sup>TH</sup> AVENUE P.O. BOX 8337 SO CHARLESTON, WV 25303 (304) 744-9864

CLIENT: WV DE ADDRESS: CITY / STATE / ZIP: Charl BILL TO:	estan WV	CONTACT: TELEPHONE / FAX: E-MAIL: SAMPLER:	_	e Sm 926	4	#/	652	
SAMPLE ID	DATE/TIME GRAB/ SAMPLED COMP	ADAINSIS REGILESTEG	FLOW (gpm)	FIELD pH	FIELD TEMP	FIELD COND	FIELD DO	TRC
Dale Harper	8/24/8 09:45	DEAC. T. Co). S				CO OF CHI		11
						Windliker	W. Protection	
Relinquished by:    Relinquished by:	Date/Time	Received by:	no f		[	Date/Time _ Date/Time _	8-28-08	 3 1325
Relinquished by:	Date/Time	Received by:			[	Date/Time _		
Temp upon arrival: Tur  Sample Chlorinated: SES  Preservative Codes: 0 – no preservative, 1-	pickup collection	Hand Delivered Courie						

## Eturm Environmental Ervices

COMPANY:

WVDEP / OFFICE OF OIL & GAS

DATE/TIME SAMPLED:\* 03-11-09 1100

SAMPLE 1.D.:

DATE/TIME RECEIVED: 03-11-09 1537

APR-01-2009 09:49

SAMPLED BY:

SAMPLE ID	pH units	Hot Acid mg/l CaCO₃	Min Acid mg/l CaCD₃	Alk mg/l CaCO₃	Fe ppm	Mn ppm	TSS ppm	Cond umhos	SO <sub>4</sub> ppm	MBAS ppm	CI- ppm	TOC ppm
HARPER / DICE 1	6.9	<1	0	138	2.20	.33	1	233	17	<.01	<1.0	1.0
<del></del>												
·												
				- 11								

\* Client provided X Compliant \_\_\_\_ Non-compliant

Approved .

MAIN OFFICE—POST OFFICE BOX 650 • BRIDGEPOHT, WEST VIRGINIA 26330 • (304) 623-6549
CHARLESTON BRANCH—POST OFFICE BOX 8337 • SOUTH CHARLESTON, WEST VIRGINIA 25303-0337 • (304) 744-9864

r.J'J

## Eturm Environmental Errices

JOHN W STURM, PRESIDENT

#### **MICROBIOLOGY**

CO		D A		v.
LU	M	r P	ľ	Υ:

WVDEP / OFFICE OF OIL & GAS

DATE & TIME SAMPLED: \* SEE BELOW

SAMPLED BY:

DATE & TIME RECEIVED: 03-11-09 1537

ANALYST:

JMS / AR

DATE & TIME ANALYZED: 03-11-09 1546

METHOD:

3

CHEMISTRY: Yes X No

For Multiple Samples Only

			<del></del>
TOTAL COLIFORM P/A	E. COLI PA	DATE/TIME SAMPLED	LOG NO,
PRESENT	ABSENT	03-11-09 1100	DEP 090311-1
	COLIFORM P/A	COLIFORM P/A PA	COLIFORM PA DATE/TIME SAMPLED

Method of Analysis from "Standard Methods for the Examination of Water and Wastewater," 19th Ed., 1995

- 1 MPN Method 9221C, pg. 9-48
- 2 MF Method 9222B, pg. 9-54
- 3 "Colifert" mmo-mug Method 9223, pg, 9-64,
- \* Client provided
- X Compliant \_\_\_Non-Compliant (see attached)

Approved

Operator:	MEGAENERGY OPERATING, INC.
API:	7100021
WELL No:	DICE 1
Reviewed by	7: <u>Chris</u> Date: <u>9/18/07</u>
Due Date:	W9/26
	CHECKLIST FOR FILING A PERMIT
	New Well
<b>5</b>	Deep Well
X	WW-2B
$\boxtimes$	Inspector signature on WW-2B
$\triangleright$	WW-2A (Notarized)
$\bowtie$	Certified Mail Receipts, Waivers, or Affidavits of Personal Service
$\boxtimes$	Surface Owner Waiver
$\triangleright$	Coal Owner / Lessee /Operator Waiver None Listed
X	Surface owner consent and easement.
X	Surface owner consent and easement.  WW-2A-1 Showing Book/Page number and Royalty Percentage  Received 9/19
A OX	(WW-2B-1 (Names, addresses, and spot on topographical map listed as water testing)
X	WW-9 (Page 1 & 2) (Notarized)
X	Inspector Signature on WW-9
$\boxtimes$	Reclamation Plan
$\nearrow$	Topographic Map of location of well
$\nearrow$	Mylar Plat (Surface owner on plat matches WW-2A)
	Well is at least 400 feet from the nearest lease boundary.
	Well is at least 3000 feet from the nearest offset deep well.
$\bowtie$	Bond
X	Company is Registered with the SOS
X	Worker's Compensation / Unemployment Insurance account is OK
$\triangleright$	\$900.00 Check (\$800.00 if no pit)

WR-35 Rev (5-01)

DATE:

API#:47-71-00021

# State of West Virginia Department of Environmental Protection Office of Oil and Gas

Well Operator	's Report of We	ll Work		
Farm name:Mallow, Roy & Edith	Opera	ator Well No.:	Dice #1	
LOCATION: Elevation: _2739 ft ASL				
District: Union Latitude: 11,880 Feet South of 38	Coun	ty: Pend	lleton	
Latitude: 11,880 Feet South of 38	Deg45	Min. 32.3	Sec.	
Longitude 9,840 Feet West of 79	Deg27	Min04.	5Sec.	
The Property In				
Company:MegaEnergy Operating, Inc	Casing & Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.
Address: 7374 S. Alton Way, Suite 201	20"	30'	30'	35 sks
Centennial, CO 80112	13-3/8" 48#	199'	184'	156 sks
Agent: Paul E. Smith	9-5/8" 36#	2205'	2190'	550 sks
Inspector: Craig Duckworth	4-1/2" 11.6#	8062'	8047'	550 sks
Date Permit Issued: 9/20/2007				
Date Well Work Commenced: 5/7/2008				
Date Well Work Completed: 9/3/2008				
Verbal Plugging:			PEC	EIVED
Date Permission granted on:			1 7 0 77 5 77 5 77 5	Oll & Gas
Rotary X Cable Rig UDI #51				V = 1005
Total Depth (feet): 8560			MAL	Z 2009
Fresh Water Depth (ft.): 412				
			WV Dep	artment of
Salt Water Depth (ft.): none			nvironmer	ntal Protec
T AND AND AND AND AND AND AND AND AND AND			i samasan comana	III CONTRACTOR CONTRAC
Is coal being mined in area (N/Y)? N	-			
Coal Depths (ft.):	4	į	4	1
OPEN FLOW DATA				
Producing formationOriskany Sandsto				_
Gas: Initial open flow_618_MCF/d Oil:				
Final open flow590MCF/d	Final open flow	W	Bbl/d	
Time of open flow between initial and				
Static rock Pressure2250psig (surfa	ace pressure) a	fter one mon	th	
				F.
Second producing formation		ne depth (ft)		
	l: Initial open f		_Bbl/d	
	Final open flow		Bbl/d	
Time of open flow between initial and			ours	
Static rock Pressurepsig (surfa	ace pressure) a	fterF	<b>lours</b>	
NOTE: ON BACK OF THIS FORM PUT THE				
INTERVALS, FRACTURING OR STIMULAT				
LOG WHICH IS A SYSTEMATIC DETAILED INCLUDING COAL ENCOUNTERED BY/THE	) GEOLOGICA	LL RECORD	OF ALL FORMA	ATIONS,
INCLUDING COAL ENCOUNTERED BY THE	WELLBOKE.			
11 4-11/1				
Signed:				

## Dice #1: 47-071-00021

Operator: MegaEnergy Operating, Inc.

County: Pendleton, West Virginia

**KB Elevation:** 2779 **GL** Elevation: 2739'

T/Benson: 2580' T/Alexander: 2900' T/Brallier: 5572' T/Sycamore: 5895' T/Harrel: 6950'

T/Tully: 7100' T/Mahantango: 7146' T/U. Marcellus: 7334' T/Purcell: 7380' T/L. Marcellus: 74583 T/Onondaga: 7500'

T/Needmore: 7538' T/Oriskany: 7674' T/Helderberg: 7878 T/Mandata: 8086' T/Corrigansville: 8112'

T/Tonoloway: 8378

## Oriskany Sandstone Completion

8/29/2008: Perforated w/ 3-3/8" HC 3 SPF, 120° phased 7846'-50', 7790'-94', 7756'-60', 7676'-86' BDP-3255 psig, 2.3 bpm @3300 psig. Vol-19.4 bbls. acid vol-300 gal ISIP-2760, ISIP5-2270, Open @400 psig. Flowback 4.1 bbls fluid.

9/03/2008: Pump 60 bbls Fe Acid-displace w/120 bbls water. Drop 150 balls w/60 bbls acid. Little ball action. Average rate 46.4 bpm, avg. pressure 4814 psig, sand vol-185,404 lbs, ISIP 3667, ISIP5-3229, ISIP10-3081, ISIP15-2987, Clean fluid vol-2416 bbls. Open well at 2750 psig. Flowback well through 2/64 choke. Recovered 1500 bbls. Gas Show.

10/08/2008: 9:00 AM SITP @ 2250#. Flow @296/d for 1 hr then @ 10:00 AM flowed @618/d with 2000# FTP. At 12:00 PM started bringing 3/4" stream of fluid with 500# FTP. Flowing @ 590/d at 3:00 AM on 10/9/2008 with FTP @ 200# with 1 1/2" stream of fluid.

PBTD @ 8047'

TD @ 8560'

20" conductor @ 30'. Cmt'd w/35 sx Class A to surface. 24" Hole

13-3/8" 48# H-40 csg @ 184'. Cmt'd w/156 sx Class A to surface. 17-1/2" Hole

9-5/8" 36# J-55 csg @ 2190'. Cmt'd w/550 sx Class A to surface. 12-1/4" Hole

TOC @ 5500' est.

4-1/2" 11.6# USS-80 csg @ 8062' KB Cmt'd w/550 sx 8-3/4" Hole