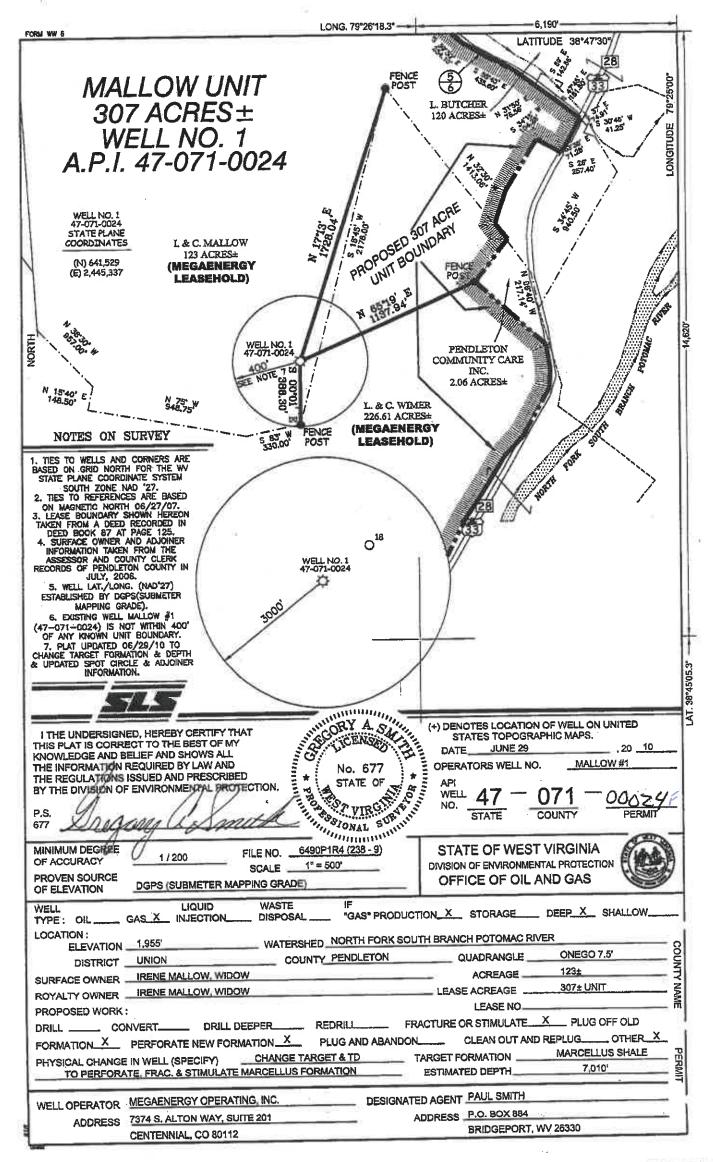


DATE: API#:47-071-0024

State of West Virginia Division of Environmental Protection Section of Oil and Gas

| Well Operator | 's Report of V | Vell Work | | | |
|---|--------------------|-----------------------------|----------------|--|--|
| Farm name:Irene & Calvin Mallow | Op | Operator Well No.:Mallow #1 | | | |
| LOCATION: Elevation:1,955 | Qu | adrangle: Onego | 7.5' | | |
| District: Union | Con | nty: Pendleton | | | |
| Latitude: 14,620 Feet South of 38 | Deg. 4 | 7 Min. 30 | Sec. | | |
| Longitude_6,190Feet West_of79_ | Deg. 2: | Min. 00 | Sec. | | |
| | | | | | |
| Company:MegaEnergy Operating, Inc | | 121 | | | |
| | Casing & | Used in | Left in well | Cement fill | |
| | Tubing | drilling | | up Cu. Ft. | |
| Address:7374 S. Alton Way, Suite 201 | 20" | 45' | 45' | 41 Cu. Ft. | |
| Centennial, CO 80112 | 13-3/8" | 197' | 197' | 324 Cu. Ft. | |
| Agent: Paul Smith | 9-5/8" | 2,164' | 9-5/8" | 736 Cu. Ft. | |
| Inspector: Craig Duckworth | 7" | 8,000' | 8,000' | 450 Cu. Ft. | |
| Date Permit Issued: January 11, 2008 | 4-1/2" | 1,955' | 1,955' | 202 Cu. Ft. | |
| Date Well Work Commenced: June 5, 2008 | | | | | |
| Date Well Work Completed: August 23, 2008 | | | | | |
| Verbal Plugging: | | | | | |
| Date Permission granted on: | | | | | |
| Rotary X Cable Rig | | | | | |
| Total Depth (feet): 9906' | | | | | |
| Fresh Water Depth (ft.): 150' and 450' | | | | | |
| | | | | | |
| Salt Water Depth (ft.): 9795'-9906' | | | | | |
| | | | | | |
| Is coal being mined in area (N/Y)? N | | | | | |
| Coal Depths (ft.):NA | | 1 | | | |
| OPEN FLOW DATA | | | | | |
| Declaring Commettee Towns | ъ. | 1 (1 (0) 0 | GD 61 000 61 | | |
| Producing formation_Tuscarora_ | | | | | |
| Gas: Initial open flow_0MCF/d Oil: In | | | | | |
| Final open flow 0 MCF/d F | inal open il | om _0Bpr | /d | And the state of t | |
| Time of open flow between initial and | | | | | |
| Static rock Pressure100psig (surfa | ace pressure |) after _96 | Hours | Office of Oil & Gas | |
| Second producing formation | D | one denth (A) | | AUS 3 1 2000 | |
| | | one depth (ft) | 701.1/1 | 4.55.625 | |
| Gas: Initial open flowMCF/d Oil: | | | Bbl/d | WV Department of | |
| | inal open fl | | Bbl/d | Engagement was consequently and a second | |
| Time of open flow between initial and | | | | | |
| Static rock Pressurepsig (surface | ce pressure) | afterH | ours | | |
| NOTE: ON BACK OF THIS FORM PUT THE | EOI I OWAN | C. 1) DETAILS | OF PERSON AS | ren | |
| INTERVALS, FRACTURING OR STIMULATIN | | | | | |
| LOG WHICH IS A SYSTEMATIC DETAILED | الاعار بحدة المعنى | AL DECODE O | EIC. 2J. IME W | TIONS | |
| INCLUDING COAL ENCOUNTERED BY THE | | | ALL FURIMA | 110175, | |
| mishoding contacting | L | 40 | | | |
| Signed: | 1/2 | | | | |
| 1/2014/14/1 | | | | DCT 9 9 2009 | |

| | ,955 ,970 | | | | |
|--|--------------|-------|--------|---|--|
| | | ft MD | ft TVD | | |
| CONDUCTOR CASING POINT | Ft3 | 45 | 45 | 24" Hole | 20" Conductor Set at |
| | 41.3 | | | Air - Hammer | 45 ft KB 13 3/8" J-55 R-3 |
| SURFACE CASING POINT | | 197 | 197 | | Sfc. Casing |
| · | 324.5 | | | 12!/4" Hole Hole | Set at 197 ft KB 9 ⁵ / ₈ " J-55 R-3 |
| | | 0.404 | | | Int. Casing Set at |
| INTERMEDIATE CASING POINT | | 2,164 | 2,164 | N K | 2164 ft KB |
| 145 SKS LITE +10% to surface (3.04 Ft3/sk) 250 SKS CLASS A 3% CaCl +40% (1.16 Ft3/sk) | 441 295 | | | 8 ³ / ₄ " Hole | |
| BRALLIER | | 4,320 | 4,317 | | |
| intermediate Cement Top | | 5,560 | 5,555 | Air - Hammer | |
| HARRELL | | 5,854 | 5,844 | Te Te | |
| thrust fault | | 6,100 | 6,090 |] [] | |
| TULLY | | 6,300 | 6,290 | | |
| MAHANTANGO | | 6,358 | 6,347 | | |
| UPPER MARCELLUS | | 6,524 | 6,812 | | |
| PURCELL | | 6,882 | 6,872 | | |
| LOWER MARCELLUS | | 6,970 | 6,958 | | 7" |
| ONONDAGA | | 7,010 | 6,998 | Air - Hammer | 23#/ft, P-110 Int. Casing |
| NEEDMORE | | 7,040 | 7,028 | | Set at |
| ORISKANY | | 7,186 | 7,174 | ₩ <u> </u> | 8000 ft KB |
| HELDERBERG | | 7,394 | 7,382 | | |
| MANDATA | | 7,576 | 7,564 | | |
| CORRIGANSVILLE | | 7,606 | 7,594 | # B | |
| TONOLOWAY | | 7,856 | 7,844 | No Salt in | |
| Liner Top | | 7,800 | 7,800 | Salina Equivalent | |
| INTERMEDIATE CASING POINT | | 8,000 | 7,988 | | |
| 285 SKS 50/50 18% SALT 12.5% GILS (1.58 Ft3/sk) | 450.3 | • | | 6 1/2" | |
| WILLS CREEK | | 8,358 | 6,358 | | 4-1/2" |
| LOCKPORT | | 8,680 | 8,680 | Air - Hammer | 11.6#/ft, P-110 Prod. Liner Set at |
| KICK-OFF POINT | | 8,900 | 8,900 | КОР | 9795 ft KB (5 ft into the Lower |
| WILLIAMSPORT | | 9,038 | 9,038 | -Q | Tuscarora) |
| ROSE HILL | | 9,270 | 9,270 | W W | |
| CLINTON | | 9,542 | 9,542 | Brine - MWD. | |
| UPPER TUCARORA | | 9,652 | 9,652 | Bg . | |
| LOWER TUCARORA | | 9,790 | 9,790 | | |
| Bottom of External Casing Packer | | 9,795 | 9,795 | ECP | _ |
| 135 SKS 50/50 10% SALT 2% GEL 10# GILS (1.5 Ft3/sk |) | | | 6 1/4" e Hote | ower Tuscarora Open-Hole Completion |
| TD | | 9,906 | 9,906 | | 9795' -9906' |



WR-35 Rev (8-10)

State of West Virginia Department of Environmental Protection Office of Oil and Gas Well Operator's Report of Well Work

| DATE: | 12/28/10 | / |
|-------|---------------|---|
| API#: | 047-071-00024 | 1 |

| Farm name: Mallow, Irene and Calvin | Operator Well No.: Mallow # 1 | | | | | |
|--|---|------------------------------------|-------------------|---------------------------|--|--|
| LOCATION: Elevation: 1,955' | Quadrangle: Onego 7.5' | | | | | |
| District: Union | County: Pendleton | | | | | |
| Latitude: 14,620 Feet South of 38 Deg. | 47 Min. | | • | | | |
| Longitude 6,190 Feet West of 79 Deg. | Longitude 6,190 Feet West of 79 Deg. 25 Min. Sec. | | | | | |
| Company: Mega Energy Operating, / | 10, | | | - | | |
| Address: | Casing & Tubing | Used in drilling | Left in well | Cement fill up Cu, Ft. | | |
| 7374 S. Alton Way; Suite 201, Centennial, CO 80112 | ruonig | dilling | | up Gu, x t, | | |
| Agent: Paul Smith | | see not | smal med | and | | |
| Inspector: Bill Hatfield | | | f 1 | | | |
| Date Permit Issued: August 10, 2010 | | | RECEIV | D | | |
| Date Well Work Commenced: Sept. 23, 2010 | | 0 | ffice of Oil | & Gas | | |
| Date Well Work Completed: Sept. 30, 2010 | | | 11.0 | | | |
| Verbal Plugging: n/a | | | JAN 97 | (40) | | |
| | | | VV Depart | nent of | | |
| Date Permission granted on: | | \ | NA Dehair | Protection | | |
| Rotary Cable Rig | | Env | COULIGIATOR | | | |
| Total Vertical Depth (ft): | | | | | | |
| Total Measured Depth (ft): | | | | | | |
| Fresh Water Depth (ft.): | | | | | | |
| Salt Water Depth (ft.): | | | | | | |
| Is coal being mined in area (N/Y)? N | | | | | | |
| Coal Depths (ft.): n/a | | | | | | |
| Void(s) encountered (N/Y) Depth(s) n/a | | | | | | |
| OPEN FLOW DATA (If more than two producing formation Producing formation Marcellus Pay zo Gas; Initial open flow 160 MCF/d Oil: Initial open flow Time of open flow between initial and final tests 48 Static rock Pressure 1500 psig (surface pressure) after Second producing formation n/a Pay zon Gas; Initial open flow MCF/d Oil; Initial open flow Time of open flow MCF/d Final open flow Time of open flow between initial and final tests Static rock Pressure psig (surface pressure) after Static rock Pressure psig (surface pressure) | one depth (ft) 6 ow Bb Hours er 72 Hour e depth (ft) ow Bb Hours | 960- 6990 I/d /d s | ta on separate sh | eet) | | |
| I certify under penalty of law that I have personally examined at the attachments and that, based on my inquiry of those individual the information is true, accurate, and complete Signature | nd am familiar | with the inform responsible for | | formation I believe that | | |

| were core samples taken? I es | | | ing drilling? Yes No A |
|---|--|-------------------------------------|---|
| Were Blectrical, Mechanic | al, N or Geophysical logs i | recorded on this well? | |
| Y/N Y/N | Y/N | | |
| NOTE: IN THE AREA BELOW FRACTURING OR STIMULATING, DETAILED GEOLOGICAL RECOR ENCOUNTERED BY THE WELLBO | , PHYSICAL CHANGE, ETC D OF THE TOPS AND BOT PRE FROM SURFACE TO T | C. 2). THE WELL L TOMS OF ALL FO | OG WHICH IS A SYSTEMATIC |
| Perforated Intervals, Fracturing, or Stimu | _ | | |
| SEE ATTACHED STIMULATI | ON REPORT PREPA | RED BY UNIVE | RSAL WELL SERVICES, |
| INC. DATED 9-28-2010. | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| 2000 | | | |
| | | | 227 11 111 1111 11111 |
| | | | |
| Formations Encountered: | Top Depth | , | Bottom Depth |
| Surface: | *************************************** | <u> </u> | Donom Deput |
| | | | |
| | | | |
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| THE TANK THE TANK | | | |
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| | | - 1011311 | - All |
| | | | |

Universal Well Services, Inc.



Stimulation Report

| Client: | Gastar Exploration |
|-----------------|-----------------------|
| Well: | Mallow #1 |
| Treatment Type: | Slick Water / 20# Gel |
| Date: | 9-28-2010 |

Disclainter Verse.

Distriction and a procedular good halls. The republic point of an Wester's computer model which would be to have a unit research and well and research information. It discreas West Society, Inc., resumes to hability for above or recommendations mode embedding exhibits for above or recommendations mode embedding exhibits. The animals of the animals can be improved through a research the model for the procedular of the treatment with the animal indicational manufactures. The animals improved through a research research which the capal West Residues the capacities effecting

Wellbore Information

Casing

| Measured Depth | Section Length (ft) | OD (in:) | Weight (ibf/ft) | (in.) |
|----------------|---------------------|-------------|--------------------|-------|
| 8,000 9,795 | 8,000 | 7 | 26 | 6.276 |
| 8.783 | 1,795 | . '4 | 11.6 | 4 |

Perforations

| Zone | Top of Peris TVD (ft) | Bottom of Perfs TVD (ft) | Perforations Number | Diameter (in.) |
|-------|-----------------------------|--------------------------------|------------------------|----------------|
| Shale | 6,960 | 6,990 | 100 | 0.35 |

Job Summary

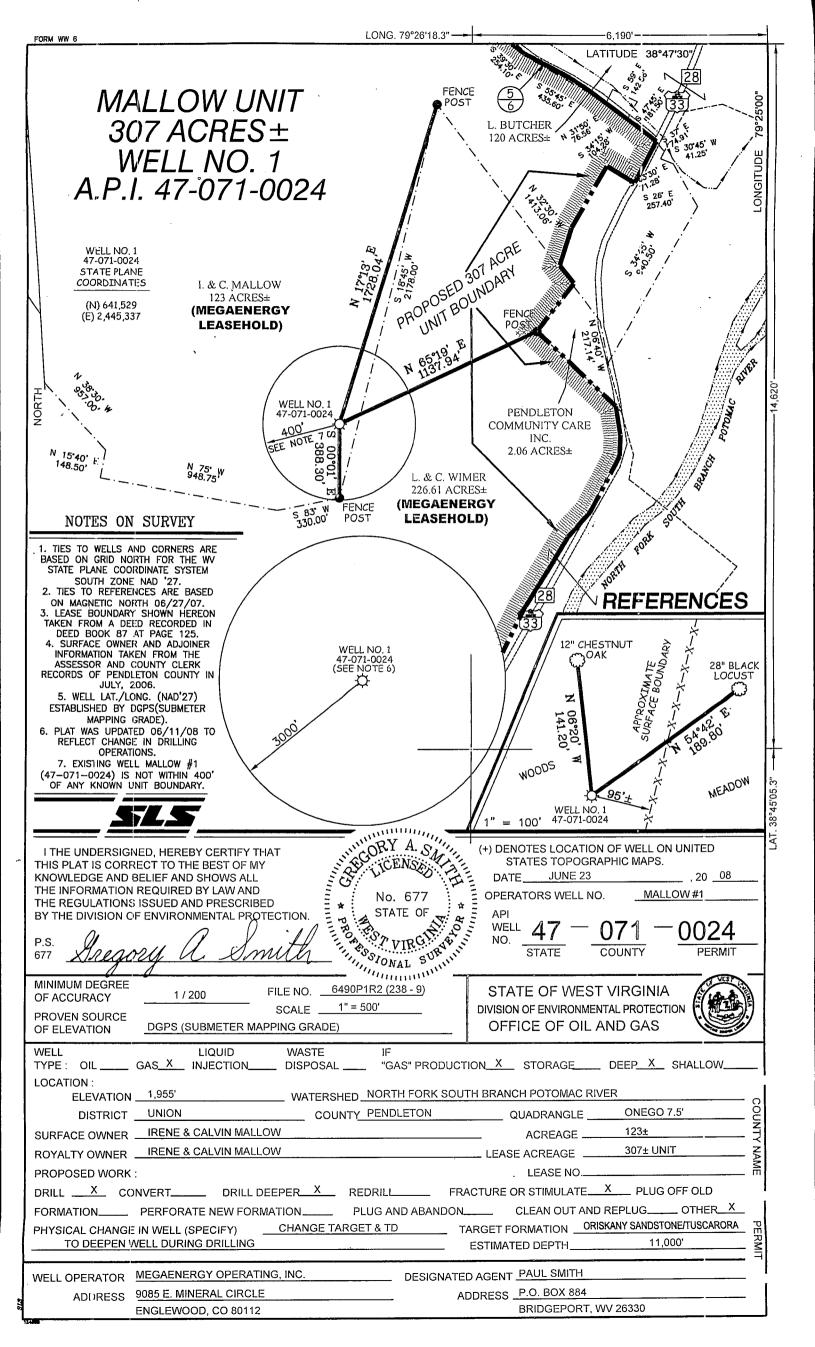
| <u>Pressures</u> | | | Totals | | |
|------------------|-------|-----|-------------|-------|-----|
| Break | 3,804 | Psi | 80/100 | 2,489 | sks |
| ISIP | 3,975 | Psi | 40/70 | 1,791 | sks |
| 5 - Min | 3,874 | Psi | 30/50 | 1,509 | sks |
| 10 - Min | 3,807 | Psi | Slick | 433 | gal |
| 15 - Min | 3,764 | Psi | Unicide | 168 | gal |
| | | | Flomax | 689 | gal |
| | | | Scale Inhib | 55 | dai |

Actually Pumped via Blender Measurement

| and Shary Rato | Esquid Volume | Sury Volume | Total Sigriy Volume | fluis Type | Prop Type | Conc. From | Propostage Mass |
|----------------|---------------|-------------|------------------------|---------------------|-----------|------------|--------------------|
| (opm) | (U.S. 88L) | (U.S. RAL) | (U.S. MH) | | | (bm/gal) | (tm) |
| 77 | 3006 | 3006 | 1006 | अंदर्भ र १ | | | 0 |
| 85 | 356 | 867 | 3873 | Sict-1 | 80/100 | 0.25 | 10906 |
| 85 | 573 | 536 | 4460 | Sixt - 1 | 90/100 | 9.50 | 12193 |
| 85 | 721 | 747 | 5206 | SEC - 1 | 90/100 | 0.75 | 24:45 |
| 86 | 127 | 812 | 6014 | Slick 1 | 90/100 | 1.00 | 32525 |
| 86 | 997 | 1056 | 7074 | 31 0 - 1 | 80/100 | 1.25 | 54414 |
| RG. | 909 | 971. | 86145 | Sixt-x | 80/100 | 1.50 | 57376 |
| 85 | 684 | 746 | 8791 | Sici-1 | 80/100 | 2.00 | \$7330 |
| 90 | 719 | 720 | 9511 | Sick 1 | | | ø |
| ð | 0 | · 0 | 9\$13 | Sixt - 1 | • | 10 | ٥ |
| 쳐 | 167 | 167 | 9679 | Skill | • | | ø |
| 85 | 775 | 397 | 10675 | \$1ct - 1 | 40/70 | Q50 | 20184 |
| 26 | 46? | 433 | 11163 | SIEL. 1 | 10/70 | 1 00 | 19032 |
| 85 | 374 | 933 | 120% | 901-1 | 40/70 | 1 50 | 55367 |
| 85 | 774 | 544 | 12940 | Sixt-1 | 10/70 | 2 | 65024 |
| 95 | 219 | 240 | 13180 | Sict - 1 | 10/70 | 2.5 | 1937 |
| 39 | 486 | 447 | 13667 | Sici - I | • | €; | ð |
| 84 | 281 | 799 | 14466 | DOM GH | 30/50 | 0.5 | 16376 |
| 83 | 717 | 750 | 15215 | 204 CH | 30/30 | 1 | 29854 |
| 84 | 444 | 475 | 15691 | 200-GM | 30/50 | 1.5 | 37960 |
| #3 | 398 | 134 | 16125 | 204 OH | 30/10 | 2 | 329)7 |
| 19 | 458 | 506 | 16631 | 20% Gel | 10/50 | 25 | 43767 |
| 26 | 323 | 321 | 16952 | Sick-1 | | 2(+3) | a |

Note: Sand valumes on job ticket are based on weight tickets

| Proppent Type: 80/100 Proppent Type: 40/70 Proppent Type: 30/50 | 2,489 1,791 1,509 | (sks) (sks) (sks) |
|---|-------------------------|-------------------------|
| Total Sturry Volume | 16,952 | (BBL) |
| Total Liquid Volume | 16,323 | (BBL) |
| Total Proppant Mass | 578,900 | (1bm) |





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 dep.wv.gov

October 05, 2010

FINAL INSPECTION REPORT

WELL PERMIT RELEASED

MEGAENERGY OPERATING, INC.,

The FINAL INSPECTION REPORT for the permit, API Well Number: 47-7100024, 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

Operator: MEGAENERGY OPERATING, INC.

Operator's Well No: MALLOW 1

Farm Name: MALLOW, IRENE & CALVIN

API Well Number: 47-7100024Date Issued: 01/11/2008

Date Released: 10/05/2010

Promoting a healthy environment.

INSPECTORS PERMIT SUMMARY FORM

GPS YES[] NO[]

| DA | TE STARTED/LOCATION: | OPERATOR: | MEGAENERGY OPER | ATING, INC. |
|----|--|--|---|-----------------------------|
| DR | ILLING COMMENCED: | FARM: | MALLOW, IRENE & C | ALVIN |
| то | DATE: DEPTHS: | Well No: | MALLOW 1 | |
| WA | TER DEPTHS: | COAL DEPTHS | S | |
| | ESTIONS FOR THIS REPORT ARE IN ACCORDANC 2.1 AND 35CSR 4-16 AND THE GENERAL WATER P | E OF WV CODE 2 | 22-6-30 AND REGULATION | |
| PO | INTS ARE TO BE GIVEN UP TO MAXIMUM AS SI | HOWN BASED O | N PERFORMANCE. | |
| 1. | DID OPERATOR GIVE PROPER NOTICE TO INSPE | CTOR BEFORE T | HE FOLLOWING: | |
| | A. CONSTRUCTION YES [] | NO [] (2_PTS |) | (4_PTS) |
| | B. DRILLING YES[] | NO [] (2_PTS) |) | |
| 2. | WAS THE TIMBER CUT, STACKED, AND BRUSH UBEFORE DIRT WORK STARTED? YES [] | USED FOR SEDIM NO [] (2_PT | IENT BARRIERS S) | (4_PTS) |
| 3. | ARE ALL LOCATION AND/OR ROAD BANKS BEIN | NG SLOPED? YES | [] NO[] (4_PTS) | (4_PTS) |
| 4. | CONSTRUCTIONS: WERE THE FOLLOWING SEDIMENT CONTROL STATE A. ROAD DITCHES C. CULVERTS C. CULVERTS C. DIVERSION DITCHES C. DIVERSION DITCHES C. TEMPORARY SEEDING C. TEMPORARY SEED | B. CROSS DRA D. CREEK CRO F. BARRIERS PTS) | AINS (1)_(2)_(3)_(4 OSSINGS (1)_(2)_(3)_(F |)_(5)_(PTS) PTS) PTS) |
| _ | | | _ | ` - / |
| 5. | HAS TOP SOIL (IF ANY) BEEN STOCKED PILED? | | · - · | (2_PTS) |
| 6. | IS THE PIT PROPERLY INSTALLED AND MAINTA | INED?YES[] | NO[] (9_PTS) | (9_PTS) |
| 7. | A. ROADWAY (1)_(2)_(3)_(PTS) C. PITS (1)_(2)_(3)_(PTS) E. TANK DIKES (1)_(2)_(3)_(PTS) G. ADEQUATE SEEDING MATERIALS (1)_(2)_(2)_(2)_(2)_(2)_(2)_(2)_(2)_(2)_(2 | F. API INSTALL (3)_(PTS) (3)_(PTS) | (1)_(2)_(3)_(PTS (1)_(2)_(3)_(PTS .ED YES[] NO[| S) |
| 8. | WAS RECLAMATION COMPLETED WITHIN: 6 MTHS OF TD 6_PTS ONLY; 4 MTHS OF TD 12_I | | | |
| | | IN IS AVAILABL | E FOR QUESTION 8: | (19_PTS) |
| T | OTAL MAXIMUM POSSIBLE SCORE OF 99. | TOTAL R | ECLAMATION SCORE | • |
| | 10/5/10 | Bill | Hothill & | h |
| 00 | DATE RELEASED | IN: | SPECTOR'S SIGNATURE | <u> </u> |

Bell said to release this again our he had alresty done it

RECORD INSPECTIONS TO THIS WELL ON PAGE 2

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: 47-71-00024 | County: | Pendleton |
| District: Union | | |
| Farm Name: Mallow, Irene and Calvin | Well No: Mallow # | 1 |
| Discharge Dates/s From:(MMDDYY) 8-21-08 TO: | (MMDDYY)9-29- | .08 |
| Discharge Times: From 6:00 AM TO | 6:00 PM | |
| Disposal Option Utilized: UIC (2): Permit No | | |
| Disposal Option Utilized: UIC (2): Permit No. Centralized Facility (5): 5 Permit No. Yard 081 | , Warren, Dexter City | y, OH |
| Reuse (4): Alternate Permit Number: | | |
| Offsite Disposal(3): Site Location: | | |
| Land Application(1):(Include a topographical n | nap of the Area.) | |
| Other method(6): (Include an explanation) | | |
| Follow Instructions below to determine your treatment | nt category. | |
| Optional Pretreatment test:Cl- mg/l | | DO Mg/l |
| 1. Do you have permission to use expedited trea | atment from the | |
| Director or his representative? (Y/N) | _ If yes | |
| who?, and place a for | ur (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 | | |
| 3. Do you have a chloride value pretreatment (| (see above)? | |
| (Y/N)_ If yes go to line 4 if not go to line 5 | | RECES |
| 4. Is that chloride level less than 5000 mg/l? (Y/ | N) If yes | Office of C |
| then enter a one (1) on line 7 | | AUG 3 1 L.S |
| 5 Do you have a pretreatment value for DO? (So | ee above) (Y/N) | AUD a Lina |
| If yes then go to line 6 if not enter a three (3) in li | ne 7. | WVDeres |
| 6 Is that DO greater than 2.5 mg/l?(Y/N)_ If yes | then enter a two | Environne |
| (2) on line 7 If not enter a three (3) on line 7. | | |
| 7 is the category of your pit. Use the App | ropriate section. | |
| Name of Principal Exec. OfficerJohn Scott Horn | afius | |
| Title of OfficerPresident | | |
| Date Completed: September 29, 2008 | | |
| I certify under penalty of law that I have person | ally examined | |
| and am familiar with the information submitted on | this document and | |
| all the attachments and that, based on my inquiry of | those individuals | |
| immediately responsible for obtaining the informat | ion 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 and imp | risomment. | |
| Signature of a Principal Exec. Officer or Aut | orized agent | |
| | | |
| Signature // | | |

CL

State of West Virginia Division of Environmental Protection Section of Oil and Gas

Well Operator's Report of Well Work

| Farm name:Irene & Calvin Mallow | 0 | perator Well No.: | Mallow #1 | |
|--|--|-------------------|------------------|--|
| LOCATION: Elevation:1,955 | Q | uadrangle: Onego | 7.5' | |
| District: Union | Co | unty: Pendleton | | |
| District: Union Latitude: 14,620 Feet South of 38 | Deg. | 47 Min. 30 |) Sec. | |
| Longitude_6,190Feet West of79 | Deg. | 25 Min. 00 | Sec. | |
| | | | | |
| Company:MegaEnergy Operating, Inc | Casing & | | Left in well | Cement fill |
| A 3 3 - MORA C. A3A - VVI - C. 4A - OO4 | Tubing 20" | drilling 45' | 45' | up Cu. Ft. 41 Cu. Ft. |
| Address: 7374 S. Alton Way, Suite 201 | 13-3/8" | 197' | 197' | 324 Cu. Ft. |
| Centennial, CO 80112 | 9-5/8" | 2,164' | 9-5/8" | 736 Cu. Ft. |
| Agent: Paul Smith | 7" | | 8,000' | 450 Cu. Ft. |
| Inspector: Craig Duckworth Date Permit Issued: January 11, 2008 | 4-1/2" | 8,000' 1,955' | 1,955' | 202 Cu. Ft. |
| Date Well Work Commenced: June 5, 2008 | 4-1/2 | 1,333 | 1,733 | 202 03.1. |
| Date Well Work Completed: August 23, 2008 | | | | |
| Verbal Plugging: | | | | |
| Date Permission granted on: | - | | | |
| Rotary X Cable Rig | | | | |
| Total Depth (feet): 9906' | | | | |
| Fresh Water Depth (ft.): 150' and 450' | | | | |
| Treat Water Depth (111): 100 tills 400 | | | | |
| Salt Water Depth (ft.): 9795'-9906' | | | | |
| Jack Water 2007 | | | | |
| Is coal being mined in area (N/Y)? N | | | | |
| Coal Depths (ft.): NA | | | | Ì |
| OPEN FLOW DATA | | | | |
| Producing formation Tuscarora | Pay | zone depth (ft)_ | 9795'-9906' | _ |
| Gas: Initial open flow_0_MCF/d Oil: I | nitial open | flow_0B | ol/d | |
| Final open flow 0 MCF/d | Final open | flow 0Bt | ol/d | |
| Time of open flow between initial and | final tests | 72 H | lours | RECEIVED |
| Static rock Pressure100psig (sur | face pressu | re) after _96 | Hours | Office of Oil & Gas |
| | | zone depth (ft) | | AUG 3 1 2003 |
| Gas: Initial open flowMCF/d Oil | | | | WV Department of |
| Final open flowMCF/d | Final onen | flow | Bbl/d | Environmenta Protectio |
| Time of open flow between initial and | l final tests | How | ours | Charles and the Charles and Ch |
| Static rock Pressure psig (surfa | | | Hours | |
| Static fock i ressure | acc pressur | | | |
| NOTE: ON BACK OF THIS FORM PUT THE | FOLLOWI | NG: 1). DETAII | S OF PERFORA | TED |
| INTERVALS, FRACTURING OR STIMULAT | ING, PHYS | ICAL CHANGE | , ETC. 2). THE \ | WELL |
| LOG WHICH IS A SYSTEMATIC DETAILED | GEOLOG | ICAL RECORD | OF ALL FORM | ATIONS, |
| INCLUDING COAL ENCOUNTERED BY THE | WELLBO | RE. | • | |
| // /\ #### | H/ | | | |
| Signed: | // r | | | |
| By $/$ $\sim con Hodge$ | Katius | | | |

| Survey Ground Elevation: KB Elevation: | 1,955 1,970 | | | | • | |
|--|----------------|----------------|----------------|----------------|---|---|
| | | fl.MD | ft.TVD | |) | |
| | | | | | 24" Hole | 20" Conductor |
| CONDUCTOR CASING POINT | Ft3 | 45 | 45 | | | Set at |
| 35 SKS CLASS A 3%CaCl to surface (1.18 Ft3/sk) | 41.3 | 40 | 70 | | | 45 ft KB |
| , | - | | | ### | 17 1/2" EE Hole H | 13 3/8" |
| | | | | | . Air | J-55 R-3 |
| SURFACE CASING POINT | | 197 | 197 | | | Sfc. Casing Set at |
| 275 SKS CLASS A 3%CaCl to surface (1.18 Ft3/sk) | 324.5 | | | | | 197 ft KB |
| | | | | | j | |
| | | | | and the second | 121/4" Hole H | 9 5/8" |
| | | | | Canada (| i iii ii | J-55 R-3 |
| INTERMEDIATE CASING POINT | | 2,164 | 2,164 | | ¥ | Int. Casing Set at |
| 145 SKS LITE +10% to surface (3.04 Ft3/sk) | 441 | 2, 104 | 2, 104 | 4 | | 2164 ft KB |
| 250 SKS CLASS A 3% CaCl +40% (1.18 Ft3/sk) | 295 | | | | | |
| | | | | 1 1 | 8 ³ / ₄ " Hole | |
| BRALLIER | | 4,320 | 4,317 | | | |
| intermediate Cement Top | | 5,560 | 5,555 | | - Наттег | |
| HARRELL | | 5,854 | 5,844 | | fa | |
| thrust fault | | 6,100 | 6,090 | | | |
| TULLY | | 6,300 | 6,290 | | ¥ | |
| MAHANTANGO | | 6,358 | 6,347 | | | |
| UPPER MARCELLUS | | 6,824 | 6,812 | | 7 | |
| PURCELL | | 6,882 | 6,872 | | | |
| LOWER MARCELLUS | | 6,970 | 6,958 | | <u>_</u> | 7" |
| ONONDAGA | | 7,010 | 6,996 | | Air - Hammer | 23#/ft, P-110 Int. Casing |
| NEEDMORE ORISKANY | | 7,040 | 7,028 | | : <u> </u> | Set at |
| HELDERBERG | | 7,186 7,394 | 7,174 7,383 | | F | 8000 ft KB |
| MANDATA | | 7,576 | 7,382 7,564 | | | |
| CORRIGANSVILLE | | 7,606 | 7,594 | | | • |
| TONOLOWAY | | 7,856 | 7,844 | | No | |
| Liner Top | | 7,800 | 7,800 | | Salt in Salina | |
| • | | | .,=•• | | Equivalent | |
| NTERMEDIATE CASING POINT | | 8,000 | 7,988 | | | |
| 85 SKS 50/50 18% SALT 12.5% GILS (1.58 Ft3/sk) | 450.3 | | | | 6 1/2" | |
| WILLS CREEK | | 8,358 | 8,358 | | Holo | |
| LOCKPORT | | 8,680 | 8,680 | | - Hammer | 4-1/2" 11.6#/ft, P-110 |
| | | 0,000 | 0,000 | | Air - I | Prod. Liner Set at |
| KICK-OFF POINT | | 8,900 | 8,900 | КОР | | 9795 ft KB (5 ft into the |
| WILLIAMSPORT | | 9,038 | 9,038 | | <u>†</u> | Lower Tuscarora) |
| ROSE HILL | | 9,270 | 9,270 | | Brine - MWD. | . 3000,010) |
| CLINTON | | 9,542 | 9,542 | | ≥ . | |
| UPPER TUCARORA | | 9,652 | 9,652 | | rine | |
| LOWER TUCARORA | | 9,790 | 9,790 | | - - | |
| Bottom of External Casing Packer | | 9,795 | 9,795 | ECP | 1 | |
| 35 SKS 50/50 10% SALT 2% GEL 10# GILS (1.5 Ft3/sk) | ı | | | | . 7 | Lower Tuscarora |
| ОТ | • | 9,906 | 9,906 | | 6 1/4" e Hole & ♥ | Open-Hole Completion 9795' -9906' |



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

December 27, 2007

Department of Environmental Protection Office of Oil and Gas

Charleston, WV 25304

RE: Application for Deep Well - API #47-071-0002

COMPANY: MegaEnergy Operating, Inc.

FARM: Irene and Calvin Mallow

COUNTY: Pendleton DISTRICT: Union QUADRANGLE: Onego

The application for the above company is APPROVED FOR ORISKANY.

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; N/A
- 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 Adm. Secretary



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

PERMIT MODIFICATION APPROVAL

June 24, 2008

MEGAENERGY OPERATING, INC. 5251 DTC PARKWAY, SUITE 425 GREENWOOD V, CO 80111

Re: Permit Modification Approval for API Number 7100024 , Well #: MALLOW 1

Oil and Gas Operator:

The Office of Oil and Gas has reviewed the attached permit modification for the above referenced permit. The attached modification has been approved and well work may begin. Please be reminded that the oil and gas inspector is to be notified twenty-four (24) hours before permitted well work is commenced.

Please call James Martin at 304-926-0499, extension 1654 if you have any questions.

Sincerely,

Gene Smith

Regulatory/Compliance Manager

Office of Oil and Gas

SMITH LAND SURVEYING

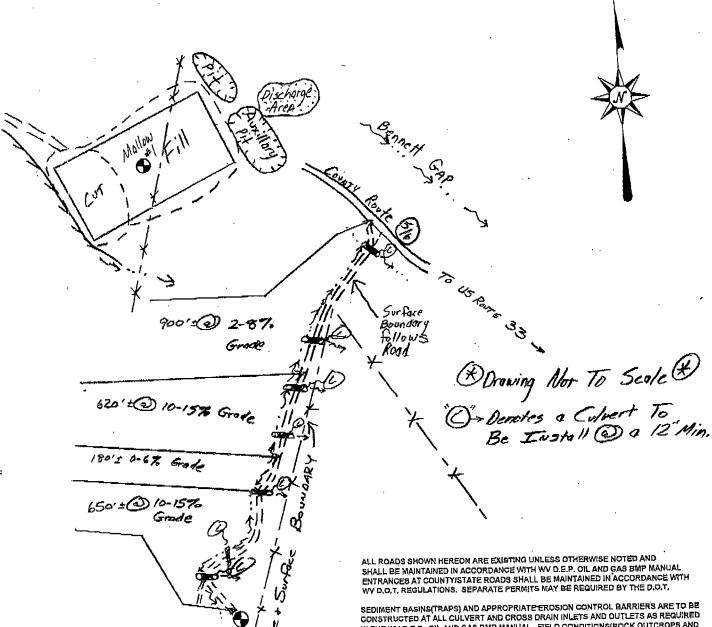
PAGE 04

71-0024

Form WW-9

Mallow Lease Well No.1

5 Of 7 page



IN THE WY D.E.P. OIL AND GAS BMP MANUAL. FIELD CONDITIONS(ROCK OUTCROPS AND BEDROCK) MAY PROHIBIT INLET TRAPS BEING INSTALLED. WHEN THESE CONDITIONS EXIST ADDITIONAL EROSION CONTROL MEASURES SHALC BE EVALUATED AND UTILIZED

EARTHWORK CONTRACTORS ARE RESPONSIBLE FOR NOTIFICATION TO THE OPERATOR AND INSPECTOR PRIOR TO ANY DEVIATION FROM THIS PLAN.

TEMPORARY SEED & MULCH ALL SLOPES AFTER CONSTRUCTION OF LOCATION.

CUT & STACK ALL MARKETABLE TIMBER.

STACK BRUSH BELOW LOCATION FOR BEDIMENT CONTROL.

ス-8-08

SMITH LAND SURVEYING, INC.

Mallow #

P.O. BOX 150, GLENVILLE, WV 26351

Phone (304) 462-5656 or 462-5634

@ Revised (1)

DRAWN BY J. RM

DATE 1-16-08 FILE NO. 6490

FORM WW-9 Rev. 02/03

| Pag | e <u>4</u> | of | _7 |
|---------------------|------------|-------|--|
| API Number 47 | | | |
| Operator's Well No. | Mallow | No. 1 | <u>. </u> |

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 Na | aπιe | MegaEnergy Operating, Inc. | | 0 | P Code | |
|---|-------------------------------|---|--|---|--|--|
| • | | th Fork South Branch Potomac Ri | | | | |
| | | | | | | |
| Elevation _ | <u> 1955'</u> | County | Pendleton | | District <u>Union</u> | |
| Description | of ant | cipated Pit Waste:Drill Wate | , Frac Blow Back | & Various For | mation Cuttings | <u> </u> |
| Will a synth | hetic li | er be used in the pit? Yes | <u> </u> | | | • |
| Proposed D |)isposa | Method For Treated Pit Wastes: | | | | |
| • | - | Y Land Application | | | | • • |
| | | Underground Injection (| UIC Permit Numb | oer | | |
| | | Reuse (at API Number | | | ~ | <i>_</i> |
| | | Underground Injection (Reuse (at API Number Off Site Disposal (Supply Other (Explain | y form WW-9 for | disposal locatio | n) | |
| | | | · · | <u>.</u> | | |
| Proposed V | Work F | or Which Pit Will Be Used: | X_ Swabb | ina | | |
| | | X Drilling Workover | Plugg | ina ina | | |
| | | Other (Explain | ^ ^466 | mé | | |
| | | Omes (Explain | | | | |
| provisions or regulati I application | of the ion can certify n form | 99, by the Office of Oil and Gas permit are enforceable by law. V lead to enforcement action. under penalty of law that I have and all attachments thereto and the I believe that the information is information, including the possibility. | re personally exa at, based on my i true, accurate, ar | mined and am nquiry of those documents. I | familiar with the information individuals immediately respon | submitted on this usible for obtaining |
| Company | Offici |] Signature | | | | |
| Company | Offici | l (Typed Name) | | | | |
| Company | O:ffici | l Title | | | | |
| Subscribe | ed and | worn before me this | day of | | , 20 | |
| | | | | | Notary Public | |
| My comm | nission | expires | | | | |

| τ. | G. | G | Ħ. | N | I |
|----|----|---|----|----|---|
| | • | v | - | ., | • |

| Property Boundary | | Diversion | | | |
|---|--------------------------|----------------|---------------------------------------|---|-----|
| | . * - = == | Spring (| → | | |
| Road = = = = = = = = = = = = = = = = = = = | _ × | Wet Spot | Y | | |
| Existing Fence — X ———X | | Drain Pipe | with size in inches | | |
| Planned Fence// | | Waterway | \leftrightarrow | $\rightarrow \hookrightarrow \hookrightarrow$ | |
| Stream Common A | | Cinca Den | in TITITI | | |
| Open Ditch | | 7 | • | XXXXXXXXXXX | |
| Rock 636 86 | | Pit; cut w | ATTTO | | |
| North N | | • | pacted fill walls | MILL | |
| Buildings | | | Land Application of Pit | TTT Waste | |
| Water wells W | | Area for | Land Approximation | | • |
| Drill site | | · | (7.4. | ± of the second | |
| Propósed Revegetation Treatm | nent: Acres Disturbed | | Prevegetation | n pH | |
| | Tons/acre or to cor | | 6.5 | | |
| | or equivalent) 1/3 7 | | | | |
| | 2 | Tons/acre | | • | • |
| Mulch HAY | | Seed Mixtu | res · | | |
| | 1 | | | Area II | |
| Seed Type | rea I lbs/acre | | Seed Type | lbs/acre | |
| кү-31 | 40 | | ORCHARD GRASS | 1-5 | _ |
| ALSIKE CLOVER | 5 | | ALSIKE CLOVER | | _ |
| ANNUAL RYE | 15 | · | | | _ |
| | | | | | -72 |
| Attach: Drawing(s) of road, location | | | ation. | | |
| Photocopied section of inv | OIA60 179, tohodishine : | , | · | | |
| | 2210.0 | 40. | | | _ |
| Plan Approved by: <u>C</u> r Title: <u>Dil +</u> Gas | Eld Williams | <u> </u> | Date: 2 - 8 - | - 08 | |
| | | <u> </u> | .) No | | |
| Field Reviewed? | () Yes | <u> </u> | · · · · · · · · · · · · · · · · · · · | | |



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

January 11, 2008

WELL WORK PERMIT

New Well

This permit, API Well Number: 47-7100024, 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: MALLOW 1

Farm Name: MALLOW, IRENE & CALVIN

API Well Number: 47-7100024 Permit Type: New Well

Date Issued: 01/11/2008

Promoting a healthy environment.

Form: WW - 2B

STATE OF WEST VIRGINIA

71-06074

DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS

| ٧ | VEL | L | WOR | K | PERMIT | APPL | <u>ICATION</u> |
|---|-----|---|-----|---|---------------|------|----------------|
| | | | | | | | |

| | | | 1/2 | 222 |
|---|----------------|------------|--------------|------------|
| 1)Well Operator MegaEnergy Operating, Inc. | | Pendleton | Union | Onego 7.5' |
| 1)well Operator <u>wegaznergy Operating, inc.</u> | Operator ID | County | District | Quadrangle |
| 2) Operators Well Number: Mallow No. 1 | 3) | Elevation: | <u>1955'</u> | |
| 4) Well Type: (a) Oil or GasX(b) If Gas: Production_X_/ Underg DeepX/ Shallow | | orage | | |
| 5) Proposed Target Formation(s): Oriskany Sands | sto <u>ne</u> | | | |
| 6) Proposed Total Depth: 8800 Feet | | | | |
| 7) Approximate fresh water strata depths: <u>175'</u> | | | | |
| 8) Approximate salt water depths: 3900' | | | | |
| 9) Approximate coal seam depths: None | | No. | | |
| 10) Does land contain coal seams tributary to active | e mine? | <u>No</u> | | |
| 11) Describe proposed well work To Drill and S | timulate a | New Well | | |
| | | | | |

12) CASING AND TUBING PROGRAM

| TYPE S | PECIFIC | ATIONS | SING AND TO | FOOTAGE | INTERVALS | CEMENT |
|--------------|------------|--------|-------------|-----------------|-------------------------------|--------------------|
| 1112_0 | Size | Grade | Weight per | For Drilling | <u>Left in</u> <u>Well</u> | Fill -up (Cu. Ft.) |
| Conductor | 13 3/8" | | | 80' | 80' | CTS-60 Sacks |
| Fresh Water | | | | | | |
| Coal | | | | <u> </u> | | |
| Intermediate | 9 5/8" | | | 1700' | 1700' | CTS-550 Sacks |
| Production | 5 1/2" | | | 8800' | 8775' | 280 Sacks |
| Tubing | | | | | | CN 11-27-07 |
| Liners | | | | | ļ | |

Packers: Kind

Sizes

Depths Set

RECEIVED

Office of Oil & Gas

NOV 28 2007

WV Department of Environmental Protection

1) Date: September 28, 2007

2) Operator's Well Number Mallow No. 1

3) API Well No.: 47 -

County

004 Barrit

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 O | wner(s) to be served: γ | 5) (a) Co | al Operator | |
|---------------------|---------------------------------------|--|--|----------------------------|
| (a) Name | Irene & Calvin Mallow $$ | Name | | |
| Address | HC 78 Box 140 | Address | | |
| | Riverton, WV 26814 | - | | |
| (b) Name | | (b) Coal C | wner(s) with Declar | ration \setminus |
| Address | | Name | Irene & Calvin Mal | llow W |
| 71441000 | | Address | HC 78 Box 140 | |
| | | _ | Riverton, WV 268 | 14 |
| (c) Name | | Name | | |
| Address | | _ Address | | |
| Address | | _ Addioos | | |
| 6) Inspector | Craig Duckworth | _ ' ' | essee with Declara | |
| Address | Box 107 Davison Route | _ Name | | |
| | Gassaway, WV 26624 | _ Address | | |
| Telephone | 304-545-2942 | | | |
| • | TO THE PERSONS NAM | MED ABOVE T | AKE NOTICE THAT | |
| Included is | the lease or leases or other continu | ing contract or o | contracts by which I hol | d the right to extract oil |
| and gas | | | | |
| OR X Included is | the information required by Chapt | or 22 Article 6 | Section 8(d) of the Coo | le of West Virginia (see |
| | | | | |
| | that as required under Chapter 22- | 6 of the <u>West Vi</u> | <u>rginia Code</u> I have serv | ed copies of this notice |
| and application | , a location plat, and accompanying | g documents pa | ges 1 through on t | he above named parties |
| by: | | | | |
| | Personal Service (Affidavit at | tacned) setal receipt atta | rhad) | |
| | Certified Mail (Postmarked po | osiai receipi alla ostion attached) | Cileu) | |
| L bayo r | read and understand Chapter 22-6 | and 35 CSR 4. | nd I agree to the term | s and conditions of any |
| normit iccued a | under this application | | | |
| Loomiii | under nonalty of law that I hav | e personally ex | amined and am famili | ar with the information |
| aubmitted on | thic application form and all attac | chments, and th | iat based on my inqu | iry of those individuals |
| | esponsible for obtaining the infor | mation, I believ | e that the information | is true, accurate and |
| complete. | vare that there are significant penal | ties for submitti | ng false information, inc | cluding the possibility of |
| fine and impris | sonment. | | | |
| mic and mp. | Well Operator | MegaEnergy O | perating A.A. | Office of Oil & Gas |
| | Ву: | Paul E | muth | NÜV 282007 |
| | lts: | 9085 E. Minera | Cirolo | 1101 20 200. |
| | Address | Englewood, CC | | WV Department of |
| | Telephone | 720-875-9810 | <u>, 00112</u> | nvironmental Protection |
| Subscribed or | nd sworn before me | | | |
| this . | 1944 | Novembe | | Jan J |
| لله مل | Tuai | Donto | Notary Public | |
| My Commission | on Expires | \mathcal{F} \mathcal{F} | The state of the s | <u> </u> |
| - | - / | ~ | | |
| | | | Mallori, Comment | |

71-00024

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 |
|-----------------------|----------------------------|------------------------------|------------------|
| llene & Calvin Mallow | MegaEnergy Operating, Inc. | 1/8 th Dated 6 | 19/510 /28/06 |

Well
Operator:

By:

its:

MegaEnergy Operating, Inc.

till E. Smith

RECEIVED
Office of Oil & Gas

NOV 28 2007

WV Department of Environmental Protection

Well No. Mallow No. 1

West Virginia Department of Environmental Protection Office of Oil 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:

| <u>X</u> | Contractor Name Well operator's pr laboratory | Smith Land Surveying, Inc. – Environmental Division ivate |
|----------|---|--|
| | Well Operator Address | MegaEnergy Operating 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 the lift there are no water wells or springs within 1000 feet of the proposed site please indicate since of Oil & Gas

NUV 28 2007

Mallow No. 1

WV Department of Environmental Protection

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

| Pa | ige | 4 | of_ | <u>7</u> | , |
|---------------------|-----|------|-------|----------|---|
| API Number 47 - | 07 | 1- | _ oc | 002 | Ţ |
| Operator's Well No. | Ma | llow | No. 1 | _ | 7 |

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 | g, Inc. | | OP | Code | |
|---|---|--|--|--|---|---|
| Watershed No | orth Fork South Branch P | otomac Rive | er | Quadrangle _ | Onego 7.5' | |
| Elevation 1955' | | County _ | Pendleton | D | istrict <u>Union</u> | |
| Description of ant | cicipated Pit Waste: | Drill Water, | Frac Blow Back & | Various Form | ation Cuttings | |
| Will a synthetic li | ner be used in the pit? | Yes | · | | | |
| Proposed Disposa | Off Site Dispos | on njection (U Number al (Supply 1 | IC Permit Number_ form WW-9 for dis | posal location) | · · · | |
| Proposed Work F | or Which Pit Will Be Us X Drilling Workover Other (Explain | - | X Swabbing Plugging | | | |
| December 31, 19 provisions of the or regulation can I certify application form the information, submitting false in | 99, by the Office of Oil permit are enforceable by lead to enforcement action under penalty of law that and all attachments there I believe that the information, including the I Signature | and Gas of y law. Violon. hat I have to and that, nation is true possibility | the West Virginia ations of any term personally examin based on my inquire, accurate, and cof fine or imprison | Division of E or condition of ed and am farry of those incomplete. I am | nvironmental Protect f the general permit a miliar with the infor lividuals immediately a aware that there ar | TION PERMIT issued on ion. I understand that the nd/or other applicable law rmation submitted on this responsible for obtaining e significant penalties for ECEIVED fice of Oil & Gas |
| Company Official | _ | PAUL E. | 3mith | | | NUV 2 8 2007 |
| Company Official | Title ACE | INT | | | | Department of mental Protection |
| Subscribed and sv | vorn before me this | ith o | day of Nhenk | | , 20 <u>6</u> 7 | |
| My commission e | xpires | 121, | 2016 | To angeleration of the control of th | | ver Microphy |

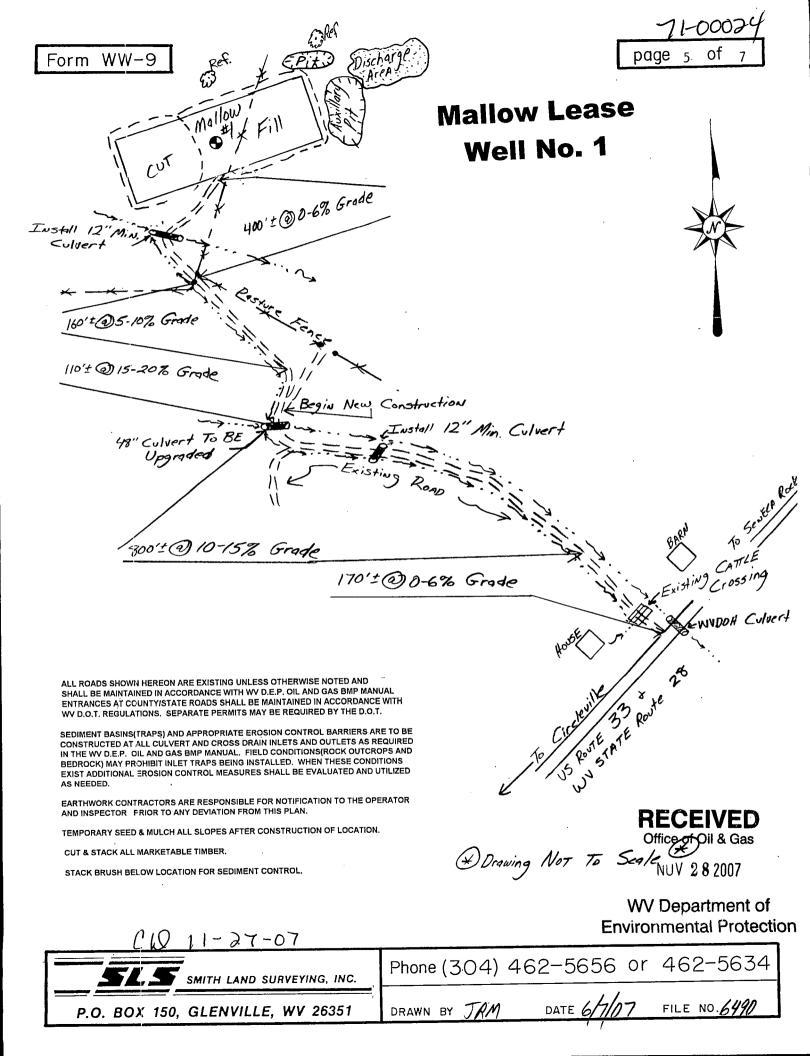
| | LEGEND |
|--|--|
| Property Boundary | Diversion Legger 11 11 11 11 11 11 11 11 11 11 11 11 11 |
| Road | Spring O |
| Existing Fence — X — X — X — | Wet Spot |
| Planned Fence / / / | Drain Pipe with size in inches (2 |
| Stream Change Control of the Control | Waterway \longleftrightarrow |
| Open Ditch | Cross Drain 777777777777777777777777777777777777 |
| Rock 65686 | 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 | |
| Proposed Revegetation Treatment: Acres Disturbed | 2.12 Prevegetation pH |
| Lime3 Tons/acre or to correct | to pH6.5 |
| Fertilizer (10-20-20 or equivalent) 1/3 TON | lbs/acre (500 lbs minimum) |
| Mulch HAY 2 | Cons/acre |
| • | eed 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 la | nd application. |
| Photocopied section of involved 7.5' topographic sheet. | |

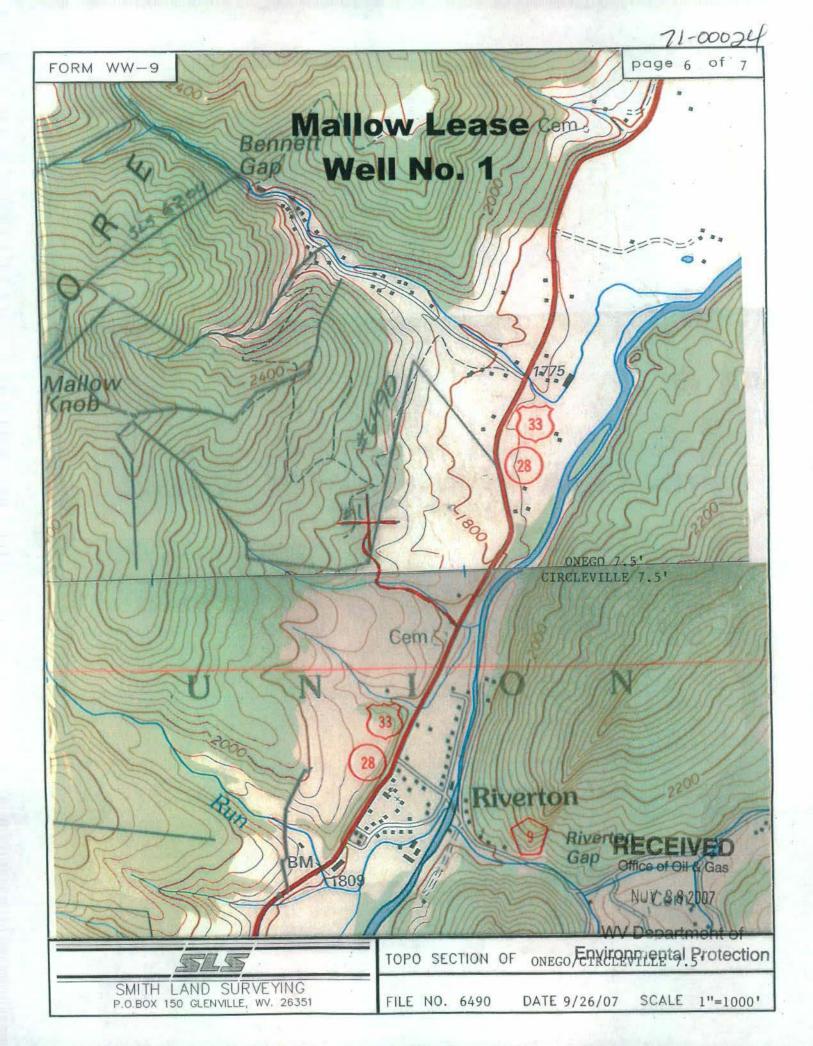
Date: 11-37-07

) No

Plan Approved by:

Field Reviewed?





SURFACE OWNER WAIVER

71-00024

County

Pendleton

Operator

MegaEnergy Operating, Inc.

Operator well number

Mallow 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 57th St. SIE
Charleston, W/v 25304
(304) 926-0450

Time Limits and methods for filing comments. The law requires these materials to be served on or before the date the operator files his Application. You have 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 | | | | OR EXECUTION | UTION BY A CORPORATION OF C. | |
|-----------------------------------|--------|----------|----------------|--------------|---|--|
| I rene malher | _ Date | 11/19/07 | Compan Name | у | Office of Oil & Gas | |
| Signáture | | į | By Its | | NUV 282Bate | |
| Please | Retu | RN | | Signature | WV Department of Environmental Protection | |

COAL OPERATOR, OWNER, OR LESSEE WAIVER

| County | Pendleton | | | |
|-----------------------|---|--|--|----------------|
| Operator | MegaEnergy Operating, Inc. | Operator's Well Number | Mallow No. 1 | |
| | | | | |
| | INSTRUCTIONS TO CO | OAL OPERATOR, | OWNER, OR LESSEE | |
| that any o | objection vou wish to make o | r are required to | page WW2-A. You are hereby notifice make by Code 22-6-15, 16 or 17, mu nin fifteen (15) days after the receipt | IST |
| | | WAIVER | | |
| well locate area of w | tion has examined this proposed ell location, the well location tion to the work proposed to with all applicable require | sed well location. has been added be done at this lo | / lessee/ of the coal under the life a mine map exists which covers the life to the mine map. The undersigned had been provided, the well operator had been virginia. Code and the governing | ne as as |
| FOR EXEC | UTION BY A NATURAL PERSON | Commo | FOR EXECUTION BY A CORPORATION, ETC | > . |
| Drin | <u>re Mallous</u> Date | Compa / 1/14/67 Name | | |
| | Signature | / / By Its | Date | |
| | | - | Signature Date | |
| | | | | |

RECEIVED Office of Oil & Gas

NOV 28 2007

WV Department of Environmental Protection

Please Return

CERTIFICATE OF CONSENT AND EASEMENT

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 64 parcel 10 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 1914 day of Nevember, 2007. | |
|--|---|
| Irene Mallow | rllar_ |
| State of West Virginia County of Familia To-wit | |
| I Jow J. Tucci, a Notary Public/Co for the aforesaid County and State, so hereby certify that | |
| to the writing above, bearing date on the 19th day of November this day acknowledged the same before, in my said County and State. | me(s) is/are signed <a>_, 2007, has(ve) |
| Notary Public Commissioner | |
| My Commission expires on June 21, 2016 | |
| State of West Virginia County of To-wit | |
| I, a Notary Public/Confor the aforesaid County and State, so hereby certify that, whose name | |
| to the writing above, bearing date on the day of this day acknowledged the same before, in my said County and State. | _, 2007, has(ve) |
| Notary Public/Commissioner | RECEIVED |
| My Commission expires on | Office of Oil & Gas |
| | NOV 28 2007 |

WV Department of Environmental Protection

71-000241

| Operator: | MEGAENERGY OPERATING, INC. | | | | | |
|--------------|----------------------------|---|----|-------------|--|--|
| API: | 7100024 | - · · · · · · · · · · · · · · · · · · · | | | | |
| WELL No: | MALLOW 1 | | | | | |
| Reviewed by: | | Date: | 12 | 14 | | |
| Due Date: | _W | | | , | | |

| CHECKLIST FOR FILING A PERMIT |
|--|
| New Well |
| WW-2B |
| Inspector signature on WW-2B |
| WW-2A (Notarized) |
| Certified Mail Receipts, Waivers, or Affidavits of Personal Service |
| Surface Owner Waiver |
| Coal Owner / Lessee /Operator Waiver |
| Surface owner consent and easement. |
| WW-2A-1 (Signed) Showing Book/Page number and Royalty Percentage |
| WW-2A-1 (Signed) Showing Book Page number and Royalty I creentage WW-2B-1 (Names, addresses, and spot on topographical map listed as water testing) Weed name 4 9 ddresses |
| WW-9 (Page 1 & 2) (Notarized) |
| Inspector Signature on WW-9 |
| Reclamation Plan |
| Topographic Map of location of well |
| Mylar Plat (Signed Sealed) (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. |
| ⊠ Bond |
| Company is Registered with the SOS |
| Worker's Compensation / Unemployment Insurance account is OK \$900.00 Check (\$800.00 if no pit) |
| \$900.00 Check (\$800.00 if no pit) C Ward 2007 |
| College January 2 |
| |

71-0002

From:

"Colleen Kennedy" <colleen@megaenergy.net>

To:

"Laura Adkins" <LADKINS@wvdep.org>

Date:

12/4/2007 4:04:39 PM

Subject:

RE: WV Pending Drilling Permit - Mallow #1[Scanned]

Thanks Laura. Can you tell me if the permit for the Johnston #1 was already issued? I'm afraid I've lost track of that one. So sorry.

Colleen Kennedy

----Original Message-----

From: Laura Adkins [mailto:LADKINS@wvdep.org] Sent: Tuesday, December 04, 2007 10:59 AM

To: Colleen Kennedy

Subject: Re: WV Pending Drilling Permit - Mallow #1[Scanned]

Colleen,

Thank you for the email. We will resume permitting the Mallow #1 and the Johnston #1 and let you know if we need any additional information.

Laura Adkins **WVDEP** Office of Oil & Gas Permitting Section Phone: (304) 926-0499 Ext. 1062

(304) 926-0452 Fax:

>>> "Colleen Kennedy" <colleen@megaenergy.net> 12/4/2007 12:30 PM >>> Laura,

By a previous email, I requested you suspend any additional actions on certain drilling permit requests submitted to your department by MegaEnergy Operating Inc.

By this writing we are requesting that you resume your efforts toward approval for the Mallow #1 Drilling Permit and continue with your efforts to approve the Johnston #1 Well permit on behalf of MegaEnergy Operating Inc. Should you have any questions, please do not hesitate contact me at (720) 875-9810.

Thank you for your consideration of this request.

No Johnston permet
Las ever heu submitted
30 PM>>>

Show casing to Cene, OK Need Name + Address for water testing

Laura Adkins - RE: WV Pending Drilling Permit - Mallow #1[Scanned]

Page 2

71-00024

Colleen Kennedy