





MISSOURI DEPARTMENT OF NATURAL RESOURCES  
MISSOURI OIL AND GAS COUNCIL  
WELL LOCATION PLAT

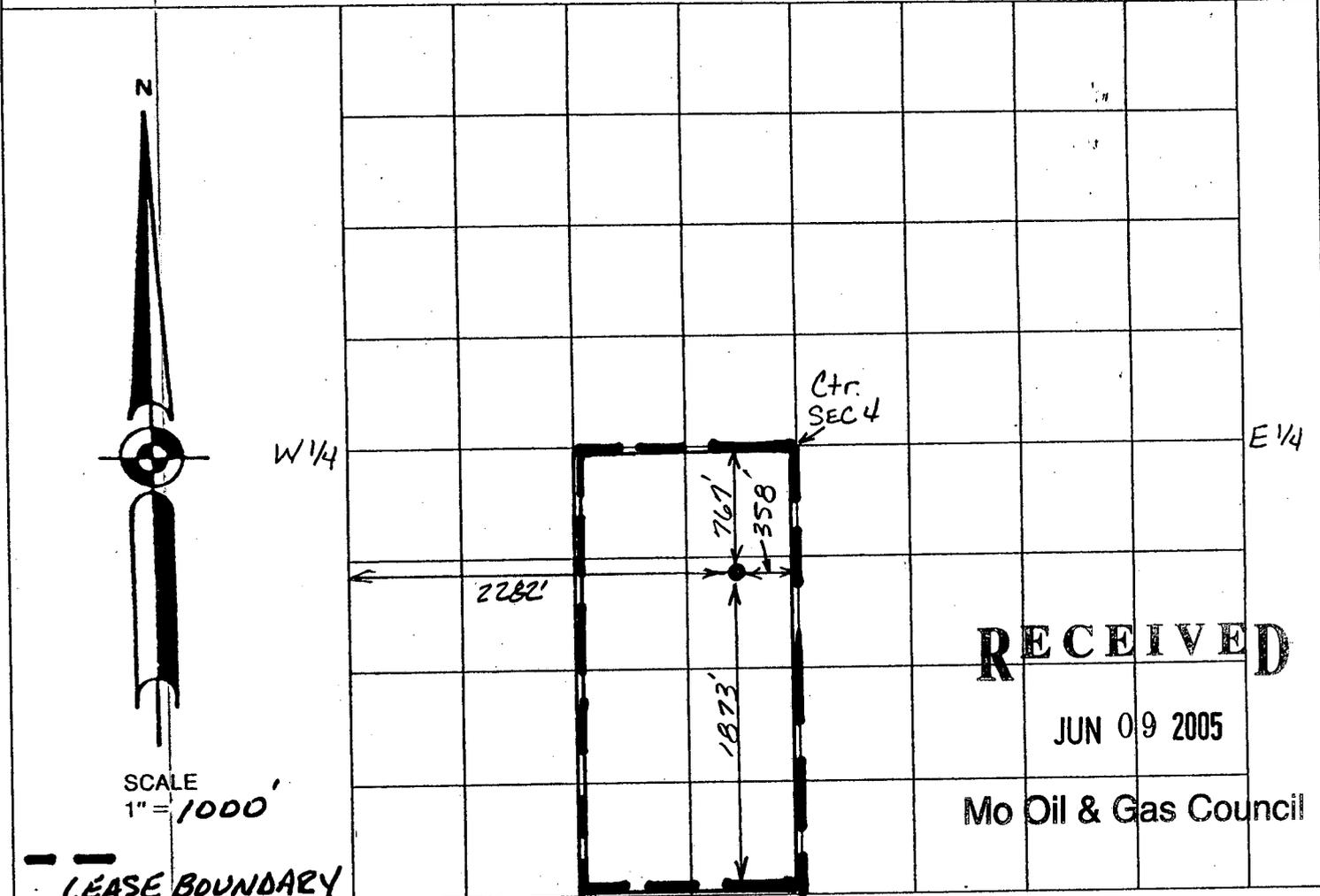
FORM OGC-4

OWNER *Charles & Margaret Hinchey - Blake & Mary Parrish*

LEASE NAME *HINCHY #1* COUNTY *CLINTON*

*1873* FEET FROM S SECTION LINE AND *2282* FEET FROM W SECTION LINE OF SEC. *4* TWP *55* N, RANGE *30*

(N) - (S) (E) - (W)



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JUN 09 2005

Mo Oil & Gas Council

REMARKS

*80 AC Lease area. Vertical Datum NGVD 1929*

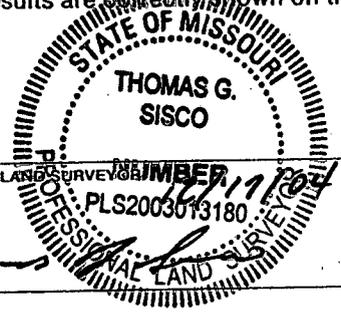
*Ground elevation = 990.8'*

*For: LaQuinta Gas Company*

**INSTRUCTIONS**

On the above plat, show distance of the proposed well from the two nearest section lines, the nearest lease line, and from the nearest well on the same lease completed in or drilling to the same reservoir. Do not confuse survey lines with lease lines. See rule 10 CSR 50-2.030 for survey requirements. Lease lines must be marked.

This is to Certify that I have executed a survey to accurately locate oil and gas wells in accordance with 10 CSR 50-2.030 and that the results are correctly shown on the above plat.

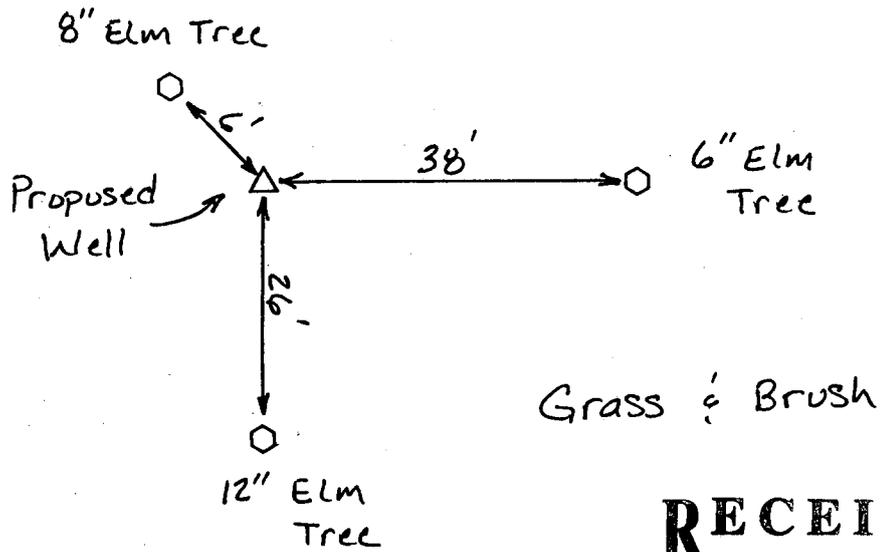


REMIT TWO (2) COPIES TO:  
MISSOURI OIL AND GAS COUNCIL  
P.O. BOX 250, ROLLA, MO 65401

REGISTERED LAND SURVEYOR NUMBER *PLS2003013180*

NUMBER *2003013180*

Well Reference Ties  
Hinchey #1  
SE1/4 NE1/4 SW1/4 Section 4-55-30



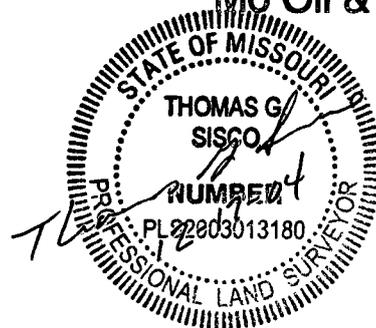
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Not to scale.





MISSOURI DEPARTMENT OF NATURAL RESOURCES  
MISSOURI OIL AND GAS COUNCIL

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

gate to Property - muddy road  
not drill yet

FORM OGC-3

99 36 02.1

94 16 21-8

APPLICATION TO DRILL     DEEPEN     PLUG BACK     FOR AN OIL WELL     OR GAS WELL

NAME OF COMPANY OR OPERATOR: **LaQuinta Exploration & Production Company, Inc.**    DATE: **6/4/2005**

ADDRESS: **PO Box 1170**    CITY: **Liberty**    STATE: **MO**    ZIP CODE: **64069-1170**

**DESCRIPTION OF WELL AND LEASE**

NAME OF LEASE: **Charles Hinchey**    WELL NUMBER: **#1**    ELEVATION (GROUND): **990.8'**

WELL LOCATION: **1873** FT. FROM (N)  SECTION LINE    **2282** FT. FROM (E)  SECTION LINE

WELL LOCATION: **SE NE SW**    SECTION: **4**    TOWNSHIP: **55N**    RANGE: **30W**    LATITUDE:    LONGITUDE:    COUNTY: **Clinton**    *Lasharp Q*

NEAREST DISTANCE FROM PROPOSED LOCATION TO PROPERTY OR LEASE LINE: **358** FEET

DISTANCE FROM PROPOSED LOCATION TO NEAREST DRILLING, COMPLETED OR APPLIED - FOR WELL ON THE SAME LEASE: \_\_\_\_\_ FEET

PROPOSED DEPTH: **700 ft.**    DRILLING CONTRACTOR, NAME AND ADDRESS: **Company**    ROTARY OR CABLE TOOLS: **Rotary**    APPROX. DATE WORK WILL START: **June 2005**

NUMBER OF ACRES IN LEASE: **80**    NUMBER OF WELLS ON LEASE, INCLUDING THIS WELL, COMPLETED IN OR DRILLING TO THIS RESERVOIR: **1**    NUMBER OF ABANDONED WELLS ON LEASE: **0**

IF LEASE PURCHASED WITH ONE OR MORE WELLS DRILLED, FROM WHOM PURCHASED?    NO. OF WELLS:    PRODUCING \_\_\_\_\_    INJECTION \_\_\_\_\_    INACTIVE \_\_\_\_\_    ABANDONED \_\_\_\_\_  
NAME: **New Lease Affiliate Company: Warrior Energy Group**

STATUS OF BOND     SINGLE WELL AMOUNT \$     BLANKET BOND AMOUNT \$ **20,000.00**     ON FILE     ATTACHED

REMARKS: (IF THIS IS AN APPLICATION TO DEEPEN OR PLUG BACK, BRIEFLY DESCRIBE WORK TO BE DONE, GIVING PRESENT PRODUCING/INJECTION ZONE AND EXPECTED NEW INJECTION ZONE; USE BACK OF FORM IF NEEDED.)

| PROPOSED CASING PROGRAM |      |       |             | APPROVED CASING - TO BE FILLED IN BY STATE GEOLOGIST |      |       |      |
|-------------------------|------|-------|-------------|--|------|-------|------|
| AMOUNT                  | SIZE | WT/FT | CEM.        | AMOUNT   | SIZE | WT/FT | CEM. |
| 100'                    | 7"   | 17.0# | 100-Surface | ok   | ok   | ok    | ok   |
| 700'                    | 4.5" | 10.3# | 700-Surface | ok   | ok   | ok    | ok   |

*Approved as Proposed*

I, the undersigned, state that I am the **Vice President** of the **LaQuinta E&P Company** (company), and that I am authorized by said company to make this report, and that this report was prepared under my supervision and direction and that the facts stated therein are true, correct, and complete to the best of my knowledge.

SIGNATURE: *Jeff Leenerts*    DATE: **6-4-05**

PERMIT NUMBER: **049-20029**    APPROVED DATE: **6-21-05**

DRILLER'S LOG REQUIRED     E-LOGS REQUIRED IF RUN  
 CORE ANALYSIS REQUIRED IF RUN     DRILL SYSTEM TEST INFO. REQUIRED IF RUN  
 SAMPLES REQUIRED     SAMPLES NOT REQUIRED  
 WATER SAMPLES REQUIRED AT

NOTE: THIS PERMIT NOT TRANSFERABLE TO ANY OTHER PERSON OR TO ANY OTHER LOCATION.

APPROVAL OF THIS PERMIT BY THE OIL AND GAS COUNCIL DOES NOT CONSTITUTE ENDORSEMENT OF THE GEOLOGIC MERITS OF THE PROPOSED WELL NOR ENDORSEMENT OF THE QUALIFICATIONS OF THE PERMITTEE.

**RECEIVED**

\_\_\_\_\_ of the \_\_\_\_\_ Company confirm that an approved drilling permit has been obtained by the owner of this well. Council approval of this permit will be shown on this form by presence of a permit number and signature of authorized council representative.

**JUN 09 2005**

DRILLER'S SIGNATURE: \_\_\_\_\_    DATE: \_\_\_\_\_

Mo Oil & Gas Council



NEW WELL  WORKOVER  DEEPEN  PLUG BACK  INJECTION  SAME RESERVOIR  DIFFERENT RESERVOIR  OIL  GAS  DRY

OWNER: LaQuinta Exploration & Production Co. ADDRESS: P.O. Box 1170 Liberty MO 64069-1170

LEASE NAME: Charles Hinchey WELL NUMBER: 1

LOCATION OF WELL: SE NE SW SEC. - TWP. - RING. OR BLOCK AND SURVEY: 4 55N 30W 1873 Sline 2282 Wline

COUNTY: Clinton PERMIT NUMBER (OGC-3 OR OGC-3S): 049-20029

DATE SPUDDED: 11/11/05 DATE TOTAL DEPTH REACHED: 11/14/05 DATE COMPLETED READY TO PRODUCE OR INJECT: 12/12/06 ELEVATION (DF, RFR, FT, OR GR.) FEET: 990.8' ELEVATION OF CASING HD. FLANGE FEET: 992

TOTAL DEPTH: 621.5 ft. PLUG BACK TOTAL DEPTH: 542 ft.

PRODUCING OR INJECTION INTERVAL(S) FOR THIS COMPLETION: 492' to 510' Squirrel Sand ROTARY TOOLS USED (INTERVAL) TO: 621.5

WAS THIS WELL DIRECTIONALLY DRILLED? yes WAS DIRECTIONAL SURVEY MADE? yes WAS COPY OF DIRECTIONAL SURVEY FILED? yes DATE FILED: 6/4/05

TYPE OF ELECTRICAL OR OTHER LOGS RUN (LIST LOGS FILED WITH THE STATE GEOLOGIST): Dual Compensated Porosity-Dual Induction LOG TECH INC DATE FILED:

CASING RECORD

Table with 7 columns: PURPOSE, SIZE HOLE DRILLED, SIZE CASING SET, WEIGHT (LB. FT), DEPTH SET, SACKS CEMENT, AMOUNT PULLED. Rows include Surface and Production data.

TUBING RECORD

LINER RECORD

Table with 8 columns: SIZE, DEPTH SET, PACKER SET AT, SIZE, TOP, BOTTOM, SACKS CEMENT, SCREEN. Row shows 2 3/8" tubing.

PERFORATION RECORD

ACID, SHOT, FRACTURE, CEMENT SQUEEZE RECORD

Table with 5 columns: NUMBER PER FOOT, SIZE AND TYPE, DEPTH INTERVAL, AMOUNT AND KIND OF MATERIAL USED, DEPTH INTERVAL. Row shows 3 perforations.

INITIAL PRODUCTION

DATE OF FIRST PRODUCTION OR INJECTION: shut in awaiting gas PRODUCING METHOD: line Dwyer manometer FLOWING

DATE OF TEST: 12/6/06 HOURS TESTED: 24 CHOKE SIZE: 1" OIL PRODUCED DURING TEST: 0 GAS PRODUCED DURING TEST: 74 WATER PRODUCED DURING TEST: 0 OIL GRAVITY: API (CORR.)

TUBING PRESSURE: 13 lb CASING PRESSURE: 0 CALCD RATE OF PRODUCTION PER 24 HOURS: 74 OIL: 0 GAS: 74 WATER: 0 GAS OIL RATIO:

DISPOSITION OF GAS (STATE WHETHER VENTED, USED FOR FUEL OR SOLD): vented

METHOD OF DISPOSAL OF MUD PIT CONTENTS: no mud used-water pumped out and hauled-pit filled in

CERTIFICATE: I, THE UNDERSIGNED, STATE THAT I AM THE President OF THE LaQuinta Exploration & Production COMPANY, AND THAT I AM AUTHORIZED BY SAID COMPANY TO MAKE THIS REPORT, AND THAT THIS REPORT WAS PREPARED UNDER MY SUPERVISION AND DIRECTION AND THAT THE FACTS STATED THEREIN ARE TRUE, CORRECT AND COMPLETE TO THE BEST OF MY KNOWLEDGE.

DATE: 3-16-09 SIGNATURE: Jeff Leewert

049-20029

MAR 30 2009

LaQuinta Exploration and Production, Inc. No. 1 Charles Hinchey  
API No.

Mid-Continent Oil & Gas Council

Clinton County, Missouri

Lathrop 7.5 Minute Quadrangle

NE NW SE NE SW Sec. 4, T. 55 N., R. 30 W.

1873 ft FSL 2282 ft FWL, Latitude N 39° 36.339' Longitude W 94° 16.438'

Estimated 301 meters (987.5 ft) ground level elevation from topographic map.

Ray Cole, Driller, Ray Cole Drilling

David C. Smith, Geologist, log of cuttings observed at end of blooie line, November 14, 2005.

Log prepared November 16-17, 2005.

Friday, November 11, 2005, drilled 0 to 30 feet and set 30 feet of estimated 7 inch surface casing.

Monday, November 14, 2005, drilled estimated 6 3/8 inch hole 30 to 621.5 feet total depth.

**Correlation**

| <u>From-To</u><br><u>(feet)</u>                              | <u>Thick</u><br><u>(feet)</u> | <u>Description</u>  | <u>Elevation</u><br><u>(feet)</u> |
|--|-------------------------------|---|-----------------------------------|
| <i>Friday, November 11, 2005</i>                             |                               |   | 987.5                             |
| Quaternary System, Glacial Drift                             |                               |   |                                   |
| 0 to 26  | 26                            | No record, assumed clay, yellowish brown, silty.  |                                   |
| Pennsylvanian System, Kansas City Group, Wyandotte Formation |                               |   | 961.5                             |
| 26 to 30   | 4                             | No record, assumed limestone.   |                                   |
| <i>Monday, November 14, 2005</i>                             |                               |   | 957.5                             |
| 30 to 31.5   | 1.5                           | Limestone, light olive gray to olive gray.  |                                   |
| Lane Formation   |                               |   | 956                               |
| 31.5 to 36.5   | 5                             | Sandstone, medium gray, fine-grained, contains black carbonaceous fragments, tight.   |                                   |
|  |                               |   | 951                               |
| 36.5 to 49.5   | 13                            | Shale, medium gray, silty.  |                                   |
|  |                               |   | 938                               |
| 49.5 to 57.5   | 8                             | Shale, medium dark gray, silty.   |                                   |
|  |                               |   | 930                               |
| 57.5 to 58.5   | 1                             | Shale, light to medium gray, silty.   |                                   |
|  |                               |   | 929                               |
| 58.5 to 69.5   | 11                            | Shale, medium to medium dark gray, silty.   |                                   |
| Iola Formation, Raytown Limestone Member                     |                               |   | 918                               |
| 69.5 to 71.5   | 2                             | Limestone, light to medium gray, finely crystalline, mudstone to packstone.   |                                   |
|  |                               |   | 916                               |
| 71.5 to 76   | 4.5                           | Shale, medium dark gray, silty.   |                                   |
|  |                               |   | 911.5                             |
| 76 to 83.5   | 7.5                           | Limestone, light to medium gray, mottled with light olive gray at base, finely crystalline, mudstone to packstone to grainstone at base, possible dead oil stain near base. |                                   |
| Muncie Creek Shale Member                                    |                               |   | 904                               |
| 83.5 to 84.5   | 1                             | Shale, medium gray, silty, calcareous, hard.  |                                   |
|  |                               |   | 903                               |
| 84.5 to 86.5   | 2                             | Shale, dark gray, silty.  |                                   |
| <u>Slight Gas Show</u> in small zip-lock plastic bag         |                               |   | 901                               |
| 86.5 to 87.5   | 1                             | Shale, black, carbonaceous, silty.  |                                   |
| Chanute Formation  |                               |   | 900                               |
| 87.5 to 91.5   | 4                             | Shale, medium gray, silty.  |                                   |
|  |                               |   | 896 ok                            |

*LaQuinta Exploration and Production, Inc. No. 1 Charles Hinchey, continued*

| <u>From-To<br/>(feet)</u>                    | <u>Thick<br/>(feet)</u> | <u>Description</u>   | <u>Elevation<br/>(feet)</u> |
|--|-------------------------|--|-----------------------------|
| 91.4 to 96.5                                 | 5                       | Shale, medium dark gray, silty.  | 896                         |
| 96.5 to 99.5                                 | 3                       | Shale, dark gray, silty.   | 891                         |
| 99.5 to 101.5                                | 2                       | Shale, medium gray, blocky.  | 888                         |
| Drum Formation, Cement City Limestone Member |                         |  | 886                         |
| 101.5 to 110.5                               | 9                       | Limestone, light gray to light olive gray, fine to medium crystalline, grainstone, contains greenish gray shale from 108.5 to 110.5.   |                             |
| Cherryvale Formation, Quivira Shale Member   |                         |  | 877                         |
| 110.5 to 111.5                               | 1                       | Shale, medium gray, silty.   | 876                         |
| 111.5 to 114.5                               | 3                       | Shale reddish brown, becomes olive drab near base.   | 873                         |
| 114.5 to 118.5                               | 4                       | Shale, medium to medium dark gray, silty.  | 869                         |
| 118.5 to 120.5                               | 2                       | Shale, reddish brown, silty.   | 867                         |
| 120.5 to 121.5                               | 1                       | Shale, light gray, silty.  | 866                         |
| Westerville Limestone Member                 |                         |  | 866                         |
| 121.5 to 126.5                               | 5                       | Limestone, light gray to light olive gray, finely crystalline, packstone to grainstone   |                             |
| Wea Shale Member                             |                         |  | 861                         |
| 126.5 to 131.5                               | 5                       | Shale, medium to medium dark gray, silty.  | 856                         |
| 131.5 to 141.5                               | 10                      | Shale, dark gray to medium dark gray near base, silty.   | 846                         |
| 141.5 to 146.5                               | 5                       | Shale, medium dark gray to medium gray near base, silty.   | 841                         |
| Block Limestone Member                       |                         |  | 834                         |
| 146.5 to 153.5                               | 7                       | Limestone, medium to light gray, finely crystalline, grainstone.   | 832                         |
| 153.5 to 155.5                               | 2                       | Shale, dark gray, silty.   | 826                         |
| 155.5 to 161.5                               | 6                       | Limestone, olive gray, finely crystalline, granular to sucrosic, grainstone.   | 826                         |
| Fontana Shale Member                         |                         |  | 821                         |
| 161.5 to 166.5                               | 5                       | Shale, medium dark gray, silty.  | 816                         |
| 166.5 to 171.5                               | 5                       | Shale, dark gray, silty.   | 812                         |
| 171.5 to 175.5                               | 4                       | Shale, medium dark gray to medium gray near base, silty.   | 806                         |
| Dennis Formation, Winterset Limestone Member |                         |  | 806                         |
| 175.5 to 181.5                               | 6                       | Limestone, light gray to pale pinkish gray, finely crystalline, packstone, soft, hard from 179.5 to 181.5.   |                             |
| 181.5 to 198.5                               | 17                      | Limestone, light gray, light yellowish brown 186.5 to 191.5 and 197.5 to 198.5, mostly finely crystalline, granular to sucrosic, packstone, contains some dark gray shale partings, powdered by the hammer, no oil odor. |                             |

789 ok

LaQuinta Exploration and Production, Inc. No. 1 Charles Hinchey, continued

| <u>From-To<br/>(feet)</u>  | <u>Thick<br/>(feet)</u> | <u>Description</u>  | <u>Elevation<br/>(feet)</u> |
|--|-------------------------|---|-----------------------------|
| 198.5 to 199.5   | 1                       | Shale, dark gray, silty.  | 789                         |
|  |                         |   | 788                         |
| 199.5 to 201.5   | 2                       | Limestone, light gray and light yellowish gray, finely crystalline.   |                             |
| Stark Shale Member   |                         |   | 786                         |
| 201.5 to 204.5   | 3                       | Shale, medium gray, silty.  |                             |
| <del>Slight to Moderate Gas Show</del> in small zip-lock plastic bag                           |                         |   | 783                         |
| 204.5 to 206.5   | 2                       | Shale, black, carbonaceous, silty.  |                             |
| Galesburg Formation  |                         |   | 781                         |
| 206.5 to 207.5   | 1                       | Shale, medium gray, silty.  |                             |
| Swope Formation, Bethany Falls Limestone Member  |                         |   | 780                         |
| 207.5 to 221.5   | 14                      | Limestone, light gray, finely crystalline, granular to sucrosic, packstone to grainstone from 207.5 to 216.5, grainstone from 216.5 to 221.5, hard. |                             |
|  |                         |   | 766                         |
| 221.5 to 226.5   | 5                       | Limestone, light gray to yellowish gray, powdered by the hammer, no oil odor.   |                             |
| Hushpuckney Shale Member, <del>Slight to Moderate Gas Show</del> in small zip-lock plastic bag |                         |   | 761                         |
| 226.5 to 228.5   | 2                       | Shale, black, carbonaceous, silty.  |                             |
|  |                         |   | 759                         |
| 228.5 to 229.5   | 1                       | Shale, medium gray, silty.  |                             |
| Middle Creek Limestone Member  |                         |   | 758                         |
| 229.5 to 235.5   | 6                       | Limestone, light gray, finely crystalline, hard.  |                             |
| Ladore Formation   |                         |   | 752                         |
| 235.5 to 236.5   | 1                       | Shale, dark greenish gray, silty.   |                             |
| Hertha Formation, Sniabar Limestone Member   |                         |   | 751                         |
| 236.5 to 241.5   | 5                       | Limestone, light gray, finely crystalline, hard.  |                             |
| Mound City Shale Member, <del>Gas Test 14 Mcf/day</del>  |                         |   | 746                         |
| 241.5 to 246.5   | 5                       | Shale, light gray, calcareous, interval contains some limestone.  |                             |
| Pleasanton Group   |                         |   | 741                         |
| 246.5 to 251.5   | 5                       | Shale, greenish gray to light gray, silty, soft.  |                             |
|  |                         |   | 736                         |
| 251.5 to 261.5   | 10                      | Sandstone, light gray, very fine-grained, powdered by the hammer, no oil odor.  |                             |
|  |                         | <del>Gas Test 74 Mcf/day</del>  | 726                         |
| 261.5 to 263.5   | 2                       | Sandstone, light gray, very fine-grained, powdered by the hammer, no oil odor.  |                             |
|  |                         |   | 724                         |
| 263.5 to 266.5   | 3                       | Shale, dark gray, silty   |                             |
|  |                         |   | 721                         |
| 266.5 to 271.5   | 5                       | Sandstone, medium gray, very fine-grained, powdered by the hammer, no oil odor.   |                             |
|  |                         |   | 716                         |
| 271.5 to 273.5   | 2                       | Shale, medium gray, silty.  |                             |
|  |                         |   | 714                         |
| 273.5 to 279.5   | 6                       | Sandstone medium to dark gray, very fine-grained, powdered by the hammer, no oil odor.  |                             |
|  |                         |   | 708                         |
| 279.5 to 281   | 1.5                     | Shale, dark gray, silty, sandy.   |                             |
|  |                         |   | 706.5 ok                    |

LaQuinta Exploration and Production, Inc. No. 1 Charles Hinchey, continued

| <u>From-To</u><br><u>(feet)</u> | <u>Thick</u><br><u>(feet)</u> | <u>Description</u>  | <u>Elevation</u><br><u>(feet)</u> |
|---------------------------------|-------------------------------|---|-----------------------------------|
|                                 |                               |   | 706.5                             |
| 281 to 281.5                    | 0.5                           | Coal, black, estimated thickness.<br><u>Gas Test 74 Mcf/day</u>   | 706                               |
| 281.5 to 291.5                  | 10                            | Shale, medium gray, silty, sandy, damp.<br>Marmaton Group, Holdenville Formation, probable unconformity | 696                               |
| 291.5 to 296.5                  | 5                             | Shale, medium gray, silty.  | 691                               |
| 296.5 to 301.5                  | 5                             | Shale, medium dark gray, silty.   | 686                               |
| 301.5 to 311.5                  | 10                            | Shale, medium gray, silty.  | 676                               |
| 311.5 to 313.5                  | 2                             | Shale, dark gray, silty.<br>Lenapah Formation, Sni Mills Limestone Member                               | 674                               |
| 313.5 to 316.5                  | 3                             | Limestone, light to medium gray, finely crystalline.<br>Perry Farm Shale Member                         | 671                               |
| 316.5 to 321.5                  | 5                             | Shale, medium to medium dark gray, silty.   | 666                               |
| 321.5 to 326.5                  | 5                             | Shale, medium gray, silty.  | 661                               |
| 326.5 to 331.5                  | 5                             | Shale, medium to medium dark gray, silty.   | 656                               |
| 331.5 to 333.5                  | 2                             | Limestone, nodular, finely crystalline.   | 654                               |
| 333.5 to 334.5                  | 1                             | Shale, medium gray, silty.  | 653                               |
| 334.5 to 336.5                  | 2                             | Limestone, light gray to light greenish gray, finely crystalline,<br>grainstone.                        | 651                               |
| 336.5 to 341.5                  | 5                             | Shale, light greenish gray, silty, slightly calcareous.   | 646                               |
| 341.5 to 346                    | 4.5                           | Shale, light gray to light greenish gray, silty.<br>Norfleet Limestone Member                           | 641.5                             |
| 346 to 347.5                    | 1.5                           | Limestone, light to medium gray, finely crystalline.<br>Nowata Formation                                | 640                               |
| 347.5 to 351.5                  | 4                             | Shale, medium to dark gray, interbedded with several thin<br>limestone beds.                            | 636                               |
| 351.5 to 356.5                  | 5                             | Shale, olive gray, silty.   | 631                               |
| 356.5 to 358.5                  | 2                             | Shale, medium gray, silty.  | 629                               |
| 358.5 to 360.5                  | 2                             | Shale, light to medium gray, silty.   | 627                               |
| 360.5 to 361.5                  | 1                             | Shale, olive gray, silty.<br>Altamont Formation, Worland Limestone Member                               | 626                               |
|                                 |                               | Good gas flow, unable to measure due to low battery   |                                   |
| 361.5 to 366.5                  | 5                             | Limestone, yellowish brown, interbedded with shale, medium<br>gray, hard.                               | 621                               |
|                                 |                               | Lake Neosho Shale Member  |                                   |
| 366.5 to 371.5                  | 5                             | Shale, medium gray to light olive gray, silty.  | 616 ok                            |

LaQuinta Exploration and Production, Inc. No. 1 Charles Hinchey, continued

| <u>From-To</u><br><u>(feet)</u>   | <u>Thick</u><br><u>(feet)</u> | <u>Description</u>  | <u>Elevation</u><br><u>(feet)</u> |
|---|-------------------------------|---|-----------------------------------|
|   |                               |   | 616                               |
| 371.5 to 374.5  | 3                             | Shale, dark reddish brown, silty, hard.                                 | 613                               |
| 374.5 to 376.5  | 2                             | Shale, light greenish gray, silty.                                      | 611                               |
| Amoret Limestone Member   |                               |   | 611                               |
| 376.5 to 378.5  | 2                             | Limestone, light greenish gray, hard.                                   | 609                               |
| Bandera Formation   |                               |   | 601                               |
| 378.5 to 386.5  | 8                             | Shale, light greenish gray to greenish gray, silty, calcareous in part. | 601                               |
| 386.5 to 388.5  | 2                             | Shale, medium gray, silty.  | 599                               |
| 388.5 to 389.5  | 1                             | Shale, dark gray, silty.  | 598                               |
| Bandera Quarry Sandstone Member   |                               |   | 598                               |
| 389.5 to 391.5  | 2                             | Sandstone.  | 596                               |
| 391.5 to 396.5  | 5                             | Shale, light to medium gray, silty.                                     | 591                               |
| 396.5 to 407.5  | 11                            | Shale, medium gray, silty.  | 580                               |
| 407.5 to 408.5  | 1                             | Shale, dark gray to black, silty, carbonaceous                          | 579                               |
| Mulberry Coal Bed horizon   |                               |   | 578                               |
| 408.5 to 409.5  | 1                             | Underclay, pinkish gray, silty.   | 578                               |
| Pawnee Formation, Coal City Limestone Member  |                               |   | 576                               |
| 409.5 to 411.5  | 2                             | Limestone.  | 572                               |
| Mine Creek Shale Member   |                               |   | 572                               |
| 411.5 to 415.5  | 4                             | Shale, medium to dark gray, silty.                                      | 571                               |
| 415.5 to 416.5  | 1                             | Sandstone, medium dark gray, very fine-grained, no oil odor.            | 569                               |
| 416.5 to 418.5  | 2                             | Shale, greenish gray, silty.  | 567                               |
| 418.5 to 420.5  | 2                             | Shale, dark gray, silty.  | 566                               |
| Myrick Station Limestone Member   |                               |   | 566                               |
| 420.5 to 421.5  | 1                             | Limestone, medium gray, finely crystalline.                             | 561                               |
| 421.5 to 426.5  | 5                             | Shale (limestone?), olive gray, calcareous, very silty, hard.           | 561                               |
| Anna Shale Member   |                               |   | 559                               |
| 426.6 to 428.5  | 2                             | Shale, medium gray, silty.  | 556                               |
| <u>Good Gas Show</u> in small zip-lock plastic bag  |                               |   | 555                               |
| 428.5 to 431.5  | 3                             | Shale, black, carbonaceous, silty.                                      | 553                               |
| 431.5 to 432.5  | 1                             | Shale, medium gray, silty.  | 555                               |
| Labette Formation, Lexington Coal Bed, <u>Good Gas Show</u> in small zip-lock plastic bag |                               |   | 553                               |
| 432.5 to 434.5  | 2                             | Coal, black.  | 552                               |
| 434.5 to 435.5  | 1                             | Underclay, light gray, silty.   | 548                               |
| Higginsville Limestone  |                               |   | 548                               |
| 435.5 to 439.5  | 4                             | Limestone, medium gray, estimated thickness.                            | 546 ok                            |
| Little Osage Formation  |                               |   |                                   |
| 439.5 to 441.5  | 2                             | Shale, dark gray, silty.<br><u>Gas Test 205 Mcf/day</u>                 |                                   |

LaQuinta Exploration and Production, Inc. No. 1 Charles Hinchey, continued

| <u>From-To</u><br><u>(feet)</u>    | <u>Thick</u><br><u>(feet)</u> | <u>Description</u>  | <u>Elevation</u><br><u>(feet)</u> |
|------------------------------------|-------------------------------|---|-----------------------------------|
| 441.5 to 445.5                     | 4                             | Shale, dark gray, silty.  | 546                               |
|                                    |                               | <u>Good Gas Show</u> in small zip-lock plastic bag  | 542                               |
| 445.5 to 447.5                     | 2                             | Shale, black, carbonaceous.   |                                   |
| Summit Coal Bed,                   |                               | <u>Good Gas Show</u> in small zip-lock plastic bag  | 540                               |
| 447.5 to 448                       | 0.5                           | Coal, black.  | 539.5                             |
| 448 to 451.5                       | 3.5                           | Underclay, light gray to shale, medium gray, silty.   | 536                               |
| 451.5 to 457.5                     | 6                             | Shale, medium gray to medium dark gray near base, silty.  | 530                               |
| Blackjack Creek Limestone          |                               |   | 530                               |
| 457.5 to 461.5                     | 4                             | Limestone, light gray, finely crystalline.  |                                   |
| Excello Shale                      |                               |   | 526                               |
| 461.5 to 466.5                     | 5                             | Shale, light gray, silty, <del>expect black, carbonaceous shale.</del>                                  |                                   |
| Mulky Coal Bed horizon,            |                               | <del>the Mulky and Excello are present but I missed logging them</del>                                  | 521                               |
| 466.5 to 471.5                     | 5                             | Shale, light to medium gray, silty, sandy at base, very fine grained.                                   | 516                               |
| 471.5 to 476.5                     | 5                             | Shale, greenish gray, silty, calcareous, slightly sandy.  | 511                               |
| 476.5 to 481.5                     | 5                             | Shale, greenish gray, silty, slightly sandy.  | 506                               |
| 481.5 to 486.5                     | 5                             | Shale, medium gray, silty.  | 501                               |
| 486.5 to 491.5                     | 5                             | Shale, medium gray, silty, sandy.   | 496                               |
| Squirrel Sandstone                 |                               |   | 496                               |
| 491.5 to 501.5                     | 10                            | Sandstone, medium gray, very fine-grained, no oil odor, damp, water-bearing sandstone.                  |                                   |
|                                    |                               | <u>Gas Test 205</u> Mcf/day, water in hole, dark, working under lights                                  | 486                               |
| 501.5 to 511.5                     | 10                            | No samples.   |                                   |
| 510.5                              |                               | Injecting water to clean hole   | 476                               |
| 511.5 to 513.5                     | 2                             | Shale, medium gray, silty, sandy.   | 474                               |
| 513.5 to 521.5                     | 8                             | Sandstone, medium gray, medium-grained, abundant black carbonaceous fragments, occasional oil bleeding. | 466                               |
| 521.5 to 523.5                     | 2                             | Sandstone, medium gray, estimated thickness.  |                                   |
| Bevier Formation, Bevier Coal Bed, |                               | <u>Moderate to Good Gas Show</u> in small plastic bag   | 464                               |
| 523.5 to 525.5                     | 2                             | Coal, black, estimated depth and thickness.   | 462                               |
| 525.6 to 526.5                     | 1                             | Underclay, light gray, estimated depth and thickness.   | 461                               |
| 526.5 to 531.5                     | 5                             | Sandstone, medium gray.   | 456                               |
| 531.5 to 540.5                     | 9                             | Shale, medium gray, silty, slightly sandy.  | 447                               |
| 540.5 to 541.5                     | 1                             | Underclay or clay shale, light gray, soft.  | 446                               |
| 541.5 to 547.5                     | 6                             | Shale, medium gray, silty.  | 440                               |
| 547.5 to 548.5                     | 1                             | Limestone, estimated thickness.   | 439 ok                            |

*LaQuinta Exploration and Production, Inc. No. 1 Charles Hinchey, continued*

| <u>Correlation</u><br><u>From-To</u><br><u>(feet)</u>                            | <u>Thick</u><br><u>(feet)</u> | <u>Description</u>                               | <u>Elevation</u><br><u>(feet)</u> |
|--|-------------------------------|--|-----------------------------------|
|  |                               |  | 439                               |
| 548.5 to 550.5   | 2                             | Shale, black, estimated thickness.               |                                   |
| Verdigris Formation, Wheeler Coal Bed  |                               |  | 437                               |
| 550.5 to 551.5   | 1                             | Coal, black.                                     | 436                               |
| 551.5 to 558.5   | 7                             | Underclay to shale, light to medium gray.        |                                   |
| 558.5 Exhaust fire, Gas Test 189 Mcf/day   |                               |  | 429                               |
| 558.5 to 563.5   | 5                             | Shale, medium gray, silty, slightly sandy, soft. |                                   |
| Ardmore Limestone Member   |                               |  | 424                               |
| 563.5 to 564.5   | 1                             | Limestone or siderite nodule.                    |                                   |
| "V" Shale of Kansas  |                               |  | 423                               |
| 564.5 to 568.5   | 4                             | Shale, medium to dark gray.                      |                                   |
| Croweburg Formation, Croweburg Coal Bed  |                               |  | 419                               |
| 568.5 to 569.5   | 1                             | Coal, black, estimated thickness.                | 418                               |
| 569.5 to 571.5   | 2                             | Underclay, light gray.                           | 416                               |
| 571.5 to 577.5   | 6                             | Shale, medium gray, silty.                       | 410                               |
| 577.5 to 578.5   | 1                             | Limestone or siderite nodule, medium gray, hard. | 409                               |
| 578.5 to 581.5   | 3                             | Shale, medium gray, silty.                       | 406                               |
| 581.5 Good Gas Flow  |                               |  | 401                               |
| 581.5 to 586.5   | 5                             | Shale, medium gray, silty, slightly sandy.       | 401                               |
| 586.5 to 589   | 2.5                           | Shale, medium to dark gray, silty.               | 398.5                             |
| 589 to 589.5   | 0.5                           | Limestone.                                       |                                   |
| Fleming Formation, Fleming Coal Bed, Good Gas Show in small zip-lock plastic bag |                               |  | 398                               |
| 589.5 to 590.5   | 1                             | Coal, black.                                     | 397                               |
| 590.5 to 591.5   | 1                             | Underclay, light gray, soft.                     | 396                               |
| 591.5 to 596   | 4.5                           | Shale, medium gray, silty.                       | 391.5                             |
| 596 to 596.5   | 0.5                           | Limestone, hard.                                 | 391                               |
| 596.5 to 601.5   | 5                             | Shale, medium gray, silty, sandy.                | 386                               |
| 601.5 to 606.5   | 5                             | Shale, medium gray, silty.                       | 381                               |
| 606.5 to 621.5   | 15                            | Shale, medium gray, silty, sandy.                | 366 ok                            |
| <b>Total Depth 621.5 ft</b>  |                               |  |                                   |

**WARRIOR OPERATING COMPANY, INC.**

10 November 2010

Scott Kaden  
Missouri Department of Natural Resources  
Geological Survey Program  
P O Box 250  
Rolla, Missouri 65402

**RECEIVED**  
NOV 15 2010  
Mo Oil & Gas Council

RE: Transfer of Well Operations; Clinton County

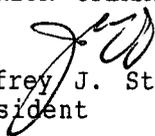
Dear Scott,

Following our conversation of yesterday, and my letter of the 3rd of November, regarding some additional information you needed before we can effectuate the transfer of wells to our company, I've enclosed the following for your review:

- 1) A Notice to Cancel Permit Application on the Double C Farms lease, DNR# 049-20028, signed by Jeff Leenerts.
- 2) A letter from LaQuinta Exploration & Production Company, Inc. ("LaQuinta") agreeing to the transfer of the listed wells from LaQuinta to Warrior Operating Company.
- 3) Your records had George Mosel listed as the operator of the Mosel #1 thru #7 wells. I've attached copy of a letter dated 3 December 2004 from Matthew Parker of your office releasing the bonds on these wells to Mr. Mosel and two e-mails regarding the transfer of operations on these Mosel wells to LaQuinta. I would trust these documents will suffice as evidence Mr. Mosel no longer is the operator and these wells likewise need to be transferred to Warrior Operating Company.

Scott, if you have further questions on any of this, please call. If all is approved, please advise the transfer of operations has been approved and the bond LaQuinta had posted can be released. When well/lease operations have been officially transferred, I'll send in the OGC-9 on 2010 gas production we have records of.

Respectfully,  
WARRIOR OPERATING COMPANY, INC.

  
Jeffrey J. Steinke  
President

Encl.  
JJS/lb

*LaQuinta Exploration & Production Company, Inc.*

November 10, 2010

Missouri Department of Natural Resources  
Geological Survey Program  
Post Office Box 250  
Rolla, Missouri 65402

RECEIVED  
NOV 15 2010  
Mo Oil & Gas Council

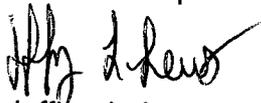
Re: Transfer of Well Operations

Gentlemen,

This letter is to inform you that LaQuinta Exploration & Production Company, Inc. acknowledges, agrees and confirms that operations on the wells listed on the attached sheet can be transferred to Warrior Operating Company, Inc.

Further, the plugging bond posted with the DNR-Missouri Oil & Gas Council by LaQuinta Exploration & Production Company, Inc. can be released. If you have questions on any of this, please call me.

Regards,  
LaQuinta Exploration & Production Company, Inc.



Jeffrey L. Leenerts, President  
789 Riley Ridge Road  
Linn Creek, MO 65052  
816-456-0102

RECEIVED

2 November 2010

WELL TRANSFERS

Missouri Department of Natural Resources, Geological Survey Program

NOV 15 2010

FROM (Old Operator): LaQUINTA EXPLORATION & PRODUCTION COMPANY, INC.

TO (New Operator): WARRIOR OPERATING COMPANY, INC.

Mo Oil & Gas Council

ALL WELLS IN CLINTON COUNTY, MISSOURI

| LEASE/WELL NAME      | WELL NUMBER | DNR PERMIT NUMBER | LEGAL DESCRIPTION      |
|----------------------|-------------|-------------------|------------------------|
| Jones-Cruickshank    | 2           | 049-20026         | SE SE SW §33-T56N-R30W |
| Jones-Cruickshank    | 3           | 049-20027         | NE NE SW §33-T56N-R30W |
| Evans Farms, Inc.    | 1           | 049-20025         | SE NE NW §04-T55N-R30W |
| Charles Hinchey      | 1           | 049-20029         | SE NE SW §04-T55N-R30W |
| Donald & George Wren | 1           | 049-20024         | SE SE NE §32-T56N-R30W |
| MM Lazy Eight, LLC   | 1           | 049-20022         | SE NE NW §33-T56N-R30W |
| MM Lazy Eight, LLC   | 2           | 049-20023         | SE NE NW §33-T56N-R30W |
| Mosel                | 1           | 049-20006         | SW SE NW §28-T56N-R30W |
| Mosel                | 2           | 049-20007         | SE NE SW §28-T56N-R30W |
| Mosel                | 3           | 049-20008         | SE NE SW §28-T56N-R30W |
| Mosel                | 4           | 049-20009         | NW SE SW §28-T56N-R30W |
| Mosel                | 5           | 049-20010         | NW SE SW §28-T56N-R30W |
| Mosel                | 6           | 049-20011         | NW NE NW §33-T56N-R30W |
| Mosel                | 7           | 049-20012         | NW NE NW §33-T56N-R30W |

STATE OF MISSOURI  
DEPARTMENT OF NATURAL RESOURCES

Bob Holden, Governor • Stephen M. Mahfood, Director

www.dnr.mo.gov

12/03/2004

Mr. George Mosel  
6830 NE Highway H  
Turney, MO 64493

RECEIVED

NOV 15 2010

Mo Oil & Gas Council

Dear Mr. Mosel

Enclosed are the following certificates of deposit: 9713, 9714, 9715, 9716, 9717, 9718, 9719, Each certificate of deposit is for the individual amount of six hundred and fifty dollars (\$650.00), each certificate of deposit is from the Mercantile Bank of Plattsburg. These certificates of deposit were used as plugging bonds for 7 wells as required under the *RULES AND REGULATIONS OF THE MISSOURI OIL AND GAS COUNCIL*. These plugging bonds are being released as a separate company has posted a bond for the wells formerly under the above-mentioned bonds. This company has taken responsibility for these wells. The Missouri Department of Natural Resources, Geological Survey and Resource Assessment Division, Geological Survey Program, UIC/Oil and Gas Unit formally releases Bonds # 9713, 9714, 9715, 9716, 9717, 9718, and 9719. Should you have any questions, please feel free to contact me via any of the methods listed below.

Sincerely,  
GEOLOGICAL SURVEY AND RESOURCE ASSESSMENT DIVISION



Matthew Parker, Unit Chief  
Hydrogeologic Investigation Unit  
Geological Survey Program  
Wellhead Protection Section  
P.O. Box 250 Rolla, MO 65402  
573/368/2195  
573/368/2317 fax  
email: matt.parker@dnr.mo.gov

*Integrity and excellence in all we do*



**COPY**

To: "LaQuinta Gas Company" <info@laquintagascompany.com>

Subject: Re: Mosel Wells (Clinton County)

From: "Matt Parker" <matt.parker@dnr.mo.gov>

Date: Tue, 19 Oct 2004 10:53:24 -0500

I believe Dave or I can supply you with the other permit information. I will be making the necessary changes to ownership. In releasing the bonds back to Mr. Mosel I will need to know if his mailing address is still RR 1, Box 79, Turney, MO and if he wants the cds sent to that address. If you could ask him to contact me or if you could relay the information to me I would appreciate it.

Thanks,

Matthew Parker, Unit Chief  
Hydrogeologic Investigation Unit  
Geological Survey Program  
Geological Survey and Resource Assessment Division  
P.O. Box 250 Rolla, MO 65402  
573/368-2195  
573/368-2317(fax)  
email: matt.parker@dnr.mo.gov

RECEIVED

NOV 15 2010

Mo Oil & Gas Council

"LaQuinta Gas Company"  
<info@laquintagascompany.com>

To matt.parker@dnr.mo.gov

cc

Subject Mosel Wells (Clinton County)

10/19/2004 07:32 AM

Hi Matt,  
We are going to assume operations on the seven wells on the George Mosel property (T56N-R30W Sections 28 & 33) with our operating company LaQuinta Exploration and Production Company. We have permit numbers for five of the wells (Permit #'s 20006, 20007, 20008, 20011 and 20012. As I stated in an earlier email, we do not have any permit information for two of his wells, so I can't give you the numbers. We will be sending to you the transfer of operations form for these wells that we have typed up and George has signed.

Since we will be assuming operations of these wells, George would like for his CD's being held by US Bank to be release once our transfer is complete. George has seven CD's being held by US Bank, which I will send you copies of if you need them.

Thank You,  
Jeff Leenerts

[http://us.f125.mail.yahoo.com/ym/ShowLetter?box=Inbox&MsgId=5539\\_4448894\\_92744\\_1510\\_1...](http://us.f125.mail.yahoo.com/ym/ShowLetter?box=Inbox&MsgId=5539_4448894_92744_1510_1...) 10/19/04

|                    |                           |                 |        |             |                  |             |      |
|--------------------|---------------------------|-----------------|--------|-------------|------------------|-------------|------|
| COUNTY:            | CLINTON                   | API:            | 24 049 | 00031       | Procedure Dates: |             |      |
| COMPANY NAME:      | FELL, CLARENCE            | COMPANY NUMBER: | FE003  |             | DATE APPROV:     |             |      |
| LEASENAME:         | GALL                      | WELL NUMBER:    | 2      |             | CAN_DT:          |             |      |
| WELL ORDER:        | 2                         |                 |        |             | SPUD_DATE:       | 6/19/1952   |      |
| ORIGINAL OPERATOR: |                           |                 |        |             | COMPL_DT:        |             |      |
| WELL TYPE:         | 2                         | WELL STATUS:    | NF     | BONDED Y/N: | PLUG_DT:         |             |      |
| TOWNSHIP:          | 55                        | RANGE:          | 30 W   | SECTION:    | 4                |             |      |
| SURVEYLOC1:        | SW SW NE                  | SURVEYLOC2:     |        | LONGITUDE:  | 94 15 45         | ELEVATION:  | 1006 |
| LATITUDE:          | 39 36 28                  | ACTUALD:        | 5 10   | LOG_DEPTH:  |                  | PBTD:       | 0    |
| PROPOSED TD:       | 0                         | LOG_TYPE:       |        | PROD_FORM:  | CHEROKEE         |             |      |
| PERF_INT:          |                           | SPL_LOC:        | 11914  | MIT 3:      |                  | LAST MIT:   |      |
| IP:                | 193 MCF                   | GOR:            |        | WIT 3:      |                  | LASTMITWIT: |      |
| GRAVITY:           |                           |                 |        | MIT 2:      |                  |             |      |
|                    |                           |                 |        | WIT 2:      |                  |             |      |
| MIT 1:             |                           |                 |        | INSP 3:     |                  |             |      |
| WIT 1:             |                           |                 |        | INSP 2:     |                  |             |      |
| MITCOMMENT:        | TURNERY FIELD, PROD 1968? |                 |        |             |                  |             |      |
| INSP 1:            |                           |                 |        |             |                  |             |      |
| COMMENT:           |                           |                 |        |             |                  |             |      |

Select Action by Clicking on Button  
or Typing Number or Letter:

R - Return to  
Permit Menu

U - Update File

P - Print

Double C  
Evan's Farm  
Hinckley

Lequinta

| oil and gas Permits |            | Click on API Number to see more information |              | Return to Permit Menu |        | Exit System Return to Windows |      | Print List |     |
|---------------------|------------|---|--------------|-----------------------|--------|-------------------------------|------|------------|-----|
| COUNTY              | API NUMBER | COMPANY NAME                                | LEASE NAME   | NUMBER                | STATUS | TYPE                          | TWN  | RNG        | SEC |
| CLINTON             | 049 00031  | FELL, CLARENCE                              | GALL         | 2                     | NF     | 2                             | 55 N | 30         | 4   |
| CLINTON             | 049 00026  | FELL, CLARENCE                              | CHASE, EMORY | 1                     | NF     | 11                            | 55 N | 30         | 4   |

LOG NUMBER  
**011922**

OWNER: Fell, et al  
 PLUGGED  CONFIDENTIAL?  0 RELEASE DATE:  
 WELL TYPE: **Oil Well**  
 DRILLER: Kemp, Ed  
 LEASENAME: Chase, Emory - Well #1  
 DRILL DATE: 1952/07/02 PERMIT #:  
 LOGGER: Martin, L.C. LOGDATE: 1952/07/14  
 TYPE OF LOG: S SAMPLE SAVED? 0

MISSOURI , COUNTY: Clinton  
 SECTION: 04 TOWNSHIP: 55 N RANGE 30 W  
 NW of NW of SE  
 LATITUDE: 39.60681  
 LONGITUDE: -94.27141  
 QUAD NAME: LATHROP

OTHER DATABASES: API OIL AND GAS FILE  
 ID NUMBER: 049-00026  
 DATABASE 2:  
 ID NUMBER:  
 DATABASE 3  
 ID NUMBER

ELEVATION: 1010 BASE: S BEDROCK @ 60 FEET  
 TOTAL DEPTH: 510 INTERVAL CORED: 0 TO 0  
 YIELD: DRAWDOWN:  
 STATIC WATER LEVEL BEFORE: AFTER:

TOP FORMATION: **LANSING GROUP**  
 BOTTOM FORMATION: **CHEROKEE GROUP**

REMARKS:

**CONSTRUCTION DATA**

CASING: DEPTH: DIAMETER CASING MATERIAL DATE PLUGGED: DATE ABANDONED:  
 Plug Depth TOP: Plug Depth Bottom:  
 GROUTING:  
 I/O:  
 SIZE HOLE:

PUMP: Capacity Pump Type Set at: Total Depth: Screen Type: Size: Length: Slot:

Well Treatment: Type Devised: Perforation Interval: Tube Pressure:  
 Type of Completion: Top:  
 Oil Production: Gas Production: Bottom:

Water Analysis:

OPEN FORMATIONS Top Formation:  
 Bottom Formation:

LOG NUMBER  
**011922**

**STRATIGRAPHY**

| TOP | BOT | FORMATION NAME               | LITHOLOGY |           |       | MINERALS |      |          |     |
|-----|-----|------------------------------|-----------|-----------|-------|----------|------|----------|-----|
|     |     |                              | PRIMARY   | SECONDARY | MINOR | PRIMARY  | occ. | SECONDAR | occ |
| 0   | 60  | NO SAMPLES                   |           |           |       |          | 0    |          | 0   |
| 60  | 510 | PENNSYLVANIAN SYSTEM         |           |           |       |          | 0    |          | 0   |
| 60  | 370 | MISSOURIAN SERIES            |           |           |       |          | 0    |          | 0   |
| 60  | 265 | LANSING-KANSAS CITY GROUPS U | LIMESTONE | SHALE     | SAND  |          | 0    |          | 0   |
| 85  | 100 | NO SAMPLES                   |           |           |       |          | 0    |          | 0   |
| 265 | 370 | PLEASANTON GROUP             | SHALE     |           | SAND  |          | 0    |          | 0   |
| 370 | 510 | DESMOINESIAN SERIES          |           |           |       |          | 0    |          | 0   |
| 370 | 480 | MARMATON GROUP               | SHALE     | LIMESTONE | COAL  |          | 0    |          | 0   |
| 444 | 444 | COAL                         | COAL      |           |       |          | 0    |          | 0   |
| 446 | 446 | COAL                         | COAL      |           |       |          | 0    |          | 0   |
| 480 | 510 | CHEROKEE GROUP               | SAND      | SHALE     |       |          | 0    |          | 0   |
| 510 | 510 | TOTAL DEPTH                  |           |           |       |          | 0    |          | 0   |