

District I  
1625 N French Dr, Hobbs, NM 88240  
District II  
1301 W Grand Avenue, Artesia, NM 88210  
District III  
1000 Rio Brazos Road, Aztec, NM 87410  
District IV  
1220 S. St Francis Dr, Santa Fe, NM 87505

State of New Mexico  
Energy, Minerals and Natural Resources  
OIL CONSERVATION DIVISION  
220 South St. Francis Dr.  
Santa Fe, NM 87505

Form C-101  
June 16, 2001

Submit to appropriate District Office

☐ AMENDED REPORT

**APPLICATION FOR PERMIT TO DRILL, RE-ENTER, DEEPEN,  
PLUGBACK, OR ADD A ZONE**

|  |   |   |
|--|---|---|
| <sup>1</sup> Operator Name and Address<br>CHEVRON U S A INC<br>15 SMITH ROAD<br>MIDLAND, TEXAS 79705 |   | <sup>2</sup> OGRID Number<br>4323 ✓         |
| <sup>3</sup> Property Code<br>29938  | <sup>5</sup> Property Name<br>F B DAVIS | <sup>3</sup> API Number<br>30 - 025-34105 ✓ |
| <sup>9</sup> Proposed Pool 1<br>LANGLIE MATTIX SEVEN RIVERS QUEEN GRAYBURG ✓                         |   | <sup>10</sup> Proposed Pool 2               |

**Surface Location**

|                   |              |                  |               |         |                      |                           |                       |                        |                 |
|-------------------|--------------|------------------|---------------|---------|----------------------|---------------------------|-----------------------|------------------------|-----------------|
| UL or lot no<br>B | Section<br>8 | Township<br>23-S | Range<br>37-E | Lot Idn | Feet from the<br>510 | North/South line<br>NORTH | Feet from the<br>1350 | East/West line<br>EAST | County<br>LEA ✓ |
|-------------------|--------------|------------------|---------------|---------|----------------------|---------------------------|-----------------------|------------------------|-----------------|

**Proposed Bottom Hole Location If Different From Surface**

|              |         |          |       |         |               |                  |               |                |        |
|--------------|---------|----------|-------|---------|---------------|------------------|---------------|----------------|--------|
| UL or lot no | Section | Township | Range | Lot Idn | Feet from the | North/South line | Feet from the | East/West line | County |
|--------------|---------|----------|-------|---------|---------------|------------------|---------------|----------------|--------|

**Additional Well Information**

|                              |                                   |                                     |                                    |  |
|------------------------------|-----------------------------------|-------------------------------------|------------------------------------|--|
| Work Type Code<br>P          | <sup>12</sup> Well Type Code<br>O | <sup>13</sup> Cable/Rotary          | <sup>14</sup> Lease Type Code<br>P | <sup>15</sup> Ground Level Elevation<br>3313' GL |
| <sup>16</sup> Multiple<br>NO | <sup>17</sup> Proposed Depth      | <sup>18</sup> Formation<br>GRAYBURG | <sup>19</sup> Contractor           | <sup>20</sup> Spud Date                          |

**Proposed Casing and Cement Program**

| Hole Size | Casing Size | Casing weight/foot | Setting Depth | Sacks of Cement | Estimated TOC |
|-----------|-------------|--------------------|---------------|-----------------|---------------|
| NO CHANGE |             |                    |               |                 |               |
|           |             |                    |               |                 |               |
|           |             |                    |               |                 |               |
|           |             |                    |               |                 |               |
|           |             |                    |               |                 |               |

<sup>22</sup> Describe the proposed program. If this application is to DEEPEN or PLUG BACK, give the data on the present productive zone and proposed new productive zone. Describe the blowout prevention program, if any Use additional sheets if necessary

CHEVRON U S A INC INTENDS TO RECOMPLETE THE SUBJECT WELL INTO THE GRAYBURG POOL

THE INTENDED PROCEDURE AND CURRENT AND PROPOSED WELLBORE DIAGRAMS ARE ATTACHED FOR YOUR APPROVAL

THE APPROVED NSL ORDER IS ALSO ATTACHED. (NSL-3866-B)

**Permit Expires 2 Years From Approval  
Date Unless Drilling Underway  
Plugback**

<sup>23</sup> I hereby certify that the information given above is true and complete to the best of my knowledge and belief

Signature.

*Denise Pinkerton*

Printed name  
DENISE PINKERTON

Title  
REGULATORY SPECIALIST

E-mail Address  
leakejd@chevron.com

Date  
08-12-2008

Phone  
432-687-7375

**OIL CONSERVATION DIVISION**

Approved by

*[Signature]*

Title  
PETROLEUM ENGINEER

Approval Date  
AUG 21 2008

Expiration Date

Conditions of Approval Attached ☐

**F. B. Davis # 6**  
**Langlie Mattix Field**  
**T23S, R37E, Section 8**  
**Job: PB To Grayburg Formation, Acidize, And Frac**

**Procedure:**

- 1. This procedure is based on the most recent information regarding wellbore configuration and equipment that could be found in the Midland Office well files and computer databases as of 5/23/2007. Verify what is in the hole with the well file in the Eunice Field office. Discuss w/ WEO Engineer, Workover Rep, OS, ALS, and FS prior to rigging up on well regarding any hazards or unknown issues pertaining to the well.***
2. Displace flowline with fresh water. Have field specialist close valve at header. Pressure line according to the type of line. Buried fiberglass lines will be tested with 300 psi. All polypipe (SDR7 and SDR11) will be tested w/100 psi. All steel lines will be tested w/500 psi. If a leak is found, contact Donnie Ives for repair/replacement. If test is good, bleed off pressure and **open valve** at header. Document this process in the morning report.
3. MI & RU workover unit. Bleed pressure from well, if any. Pump down csg with 8.6 PPG cut brine water, if necessary to kill well. POH with rods and pump. Remove WH. Install BOP's and test as required. Release TAC. POH LD 2 3/8" tbg string and TAC.
4. PU and GIH with 4 3/4" MT bit and 2 7/8" work string to top of liner at 5078'. Reverse circulate well clean from 5078' using 8.6 PPG cut brine water. POH with work string and bit. LD bit.
5. PU and GIH with tbg-set CIBP on 2 7/8" work string to 5000'. Set CIBP at 5000'. Pressure test CIBP and 5 1/2" casing to 500 psi. POH with 2 7/8" work string and setting tool. LD setting tool.
6. MI & RU Baker Atlas electric line unit. Install lubricator and test to 1000 psi. GIH and conduct GR/CBL/CCL from 5000' up to 100' above top of cement. Run log with with 500 psi on casing. POH. Inspect logs for good cement bond from approximately 4100' up to 3400'. If bond does not appear to be good across proposed completion interval, discuss with Engineering before proceeding. GIH with 3 1/8" slick casing guns and perforate from 3715-21', 3726-34', 3738-48', 3793-97', 3820-30', 3836-44', 3852-54', 3866-68', 3874-82', and 3906-16' with 4 JSPF at 120 degree phasing, using 23 gram premium charges. POH. RD & release electric line unit. **Note: Use Schlumberger Platform Express Azimuthal Lateralog dated 9/5/1997 for depth correlation.**
7. PU and GIH w/ 5 1/2" PPI pkr (with 12' element spacing) and SCV on 2 7/8" work string to approximately 3700'. Test tbg to 5500 psi while GIH.
8. MI & RU DS Services. Acidize perms 3715-3916' with 2,000 gals anti-sludge 15% HCl acid \* at a maximum rate **as shown below** and a maximum surface pressure of **3500 psi**. Spot acid

across perfs at beginning of each stage and let soak to lower breakdown pressure and prevent communication. Pump job as follows:

| Interval | Amt. Acid | Max Rate | PPI Setting |
|----------|-----------|----------|-------------|
| 3906-16' | 200 gals  | ½ BPM    | 3905-17'    |
| 3874-82' | 200 gals  | ½ BPM    | 3872-84'    |
| 3866-68' | 200 gals  | ½ BPM    | 3860-72'    |
| 3852-54' | 200 gals  | ½ BPM    | 3850-62'    |
| 3836-44' | 200 gals  | ½ BPM    | 3834-46'    |
| 3820-30' | 200 gals  | ½ BPM    | 3819-31'    |
| 3793-97' | 200 gals  | ½ BPM    | 3790-3802'  |
| 3738-48' | 200 gals  | ½ BPM    | 3737-49'    |
| 3726-34' | 200 gals  | ½ BPM    | 3724-36'    |
| 3715-21' | 200 gals  | ½ BPM    | 3712-24'    |

Displace acid with 8.6 PPG cut brine water -- do not overdisplace. Use a SCV to control displacement fluid. Record ISIP, 5 & 10 minute SIP's. RD and release DS services. **Note:** Pickle tubing in 1 run of 500 gals acid, prior to acidizing perfs. Pickle acid is to contain only 1/2 gal A264 and 1 gal W53. Also, if communication occurs during treatment of any interval, monitor casing pressure and attempt to complete stage w/o exceeding 500 psi csg pressure. If cannot, then move PPI to next setting depth and combine treatment volumes of the intervals.

|                              |            |                     |
|------------------------------|------------|---------------------|
| * Acid system is to contain: | 1 GPT A264 | Corrosion Inhibitor |
|                              | 8 GPT L63  | Iron Control Agent  |
|                              | 2 PPT A179 | Iron Control Aid    |
|                              | 20 GPT U66 | Mutual Solvent      |
|                              | 2 GPT W53  | Non-Emulsifier      |

- Release PPI pkr and PUH to approximately 3675'. Set pkr at 3675'. Fish SCV. Swab back all intervals together. Recover 100% of treatment and load volumes before shutting well in for night, if possible. Report recovered fluid volumes, pressures, and/or swabbing fluid levels. **Note:** Selectively swab perfs as directed by Engineering if excessive water is produced.

- Open well. Release PPI pkr. POH with tbg and PPI packer. LD PPI tool.

- PU and GIH w/ 5 ½" Arrow-Set 10K pkr & On-Off tool w/ 2.25" "F" profile and 117 jts. of 3 ½" EUE 8R L-80 work string, testing to 8500 psi. Set pkr at approximately 3600'. Install frac head. Pressure annulus to 500 psi to test csg and pkr. Leave pressure on csg during frac job to observe for communication.

- MI & RU DS Services and Tracer-Tech Services (Mike Mathis (866) 595-3115). Frac well down 3 ½" tubing at **40 BPM** with 88,000 gals of YF125, 176,000 lbs. 16/30 mesh Jordan Sand, and 30,000 lbs **resin-coated** 16/30 mesh CR1630 proppant. Observe a maximum surface treating pressure of **8000 psi**. Tag frac with 2 radioactive isotopes (1 in regular sand stages, and 1 in resin-coated proppant stage). Pump job as follows:

Pump 2,000 gals 2% KCL water containing 55 gals Baker RE 4777-SCW Scale Inhibitor at **6 BPM**  
 Pump 1,000 gals 2% KCL water spacer at **20 BPM**  
 Pump 14,000 gals YF125 pad containing 5 GPT J451 Fluid Loss Additive at **40 BPM**  
 Pump 14,000 gals YF125 containing 0.5 PPG 16/30 mesh Jordan Sand & 5 GPT J451 FL Additive  
 Pump 12,000 gals YF125 containing 1.5 PPG 16/30 mesh Jordan Sand  
 Pump 12,000 gals YF125 containing 2.5 PPG 16/30 mesh Jordan Sand  
 Pump 14,000 gals YF125 containing 3.5 PPG 16/30 mesh Jordan Sand  
 Pump 16,000 gals YF125 containing 4.5 PPG 16/30 mesh Jordan Sand  
 Pump 6,000 gals YF125 containing 5 PPG **resin-coated** 16/30 mesh CR1630 proppant.

Flush to 3600' with 1,315 gals WF125. **Do not overflush.** Shut well in. Record ISIP, 5, 10, and 15 minute SI tbg pressures. SWI. RD & Release DS Services and Tracer-Tech Services. **Leave well SI overnight.**

13. Open well. Bleed pressure from well, if any. Release pkr. POH LD 3 ½" work string, on-off tool, and pkr.
14. PU and GIH with 4 ¾" MT bit on 2 7/8" work string to approximately 4300'. If fill is tagged above 4300', cleanout to 4300' using 8.6 PPG cut brine water and air unit if necessary. POH with 2 7/8" work string and bit. LD bit.
15. PU & GIH with 5 ½" pkr on 2 7/8" work string to 3600'. Set pkr at 3600'. Open well. GIH and swab well until there is no sand inflow. Swab well for at least 3 hours before logging. MI & RU Baker Atlas electric line unit. Install lubricator and test to 1000 psi. GIH and conduct after-frac PRISM GR/Temp/CCL log from 4300' up to 3300'. POH. RD & release electric line unit. **Note: Correlate logs and run flat with Baker Atlas GR/CBL/CCL Log conducted in Step # 6.**
16. Release pkr. POH LD 2 7/8" work string and pkr.
17. PU and GIH w/ BP mud anchor jt of 2 7/8" tbg, 2 7/8" x 4' perforated sub, SN, 1 jt 2 7/8" EUE 8R J-55 IPC tbg, 14 jts 2 7/8" EUE 8R J-55 tbg, TAC, and 116 jts 2 7/8" EUE 8R J-55 tbg, testing to 5000 psi. Set TAC at 3600', with EOT at 4100' and SN at 4065'.
18. Remove BOP's and install WH. GIH with rods, weight bars, and pump per ALS recommended design. RD & release pulling unit.
19. Turn well over to production. Report producing rates, choke sizes, flowing pressures and/or fluid levels.

Well: Davis, FB #6

**Location:**  
510 FNL & 1350 FEL  
Section 8  
Township 23S  
Range 37E  
County Lea, NM

**Elevations:**  
GL 3325'  
DF 3326'  
KB 3338'

This wellbore diagram is based on the most recent information regarding wellbore configuration and equipment that could be found in the Midland Office well files and computer databases as of the update date below. Verify what is in the hole with the well file in the Eunice Field Office. Discuss w/WEO Engineer, WO Rep, OS, ALS, & FS prior to rigging up on well regarding any hazards or unknown issues pertaining to the well

DV Tool @ 4000'

TAC @ 5010'

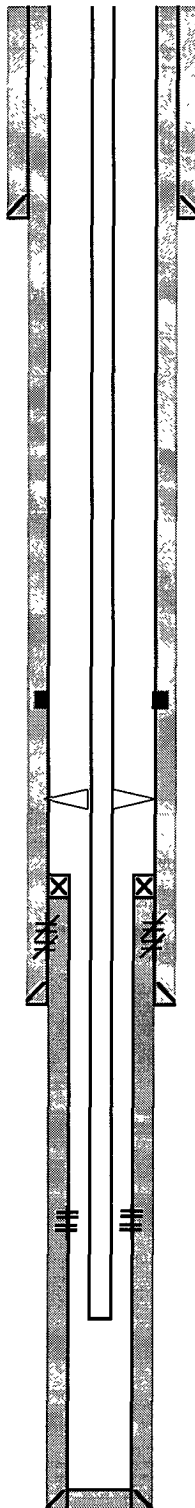
TOL @ 5078'

**Perfs**      **Status**  
5200-5226'      Gloneta- squeezed

EOT @ 5901 17'

**COTD:** 5952'  
**PBTD:** 5952'  
**TD:** 6000'  
**Updated:** 5/23/2007  
**By:** lgek

**Current**



Reservoir Blinebry

**Well ID Info:**  
Refno BQ2635  
API No 30-025-34105  
L5/L6 UCU820600  
Spud Date 8/25/1997  
Compl Date 10/3/1997

**Surf Csg:** 8 5/8", 24 #, WC- 50 STC  
**Set @** 1165' w/ 675 sks  
**Hole Size** 11"  
**Circ.** yes **TOC: Surface**  
**TOC By** Circulation

| Tubing Detail        |                            |         |
|----------------------|----------------------------|---------|
| # jts                | size                       | Footage |
|                      | KB Correction              | 13 00   |
| 160                  | 2 3/8" J-55, 4,7 # T&C EUE | 4995 63 |
| 1                    | 2 3/8" TAC                 | 2 70    |
| 27                   | 2 3/8" J-55, 4,7 # T&C EUE | 829 76  |
| 1                    | 2 3/8" J-55, 4,7 # T&C EUE | 29 08   |
| 1                    | 2 3/8" SN                  | 1 10    |
| 1                    | 2 3/8" Open end mud anchor | 29 90   |
| Bottom of string --> |                            | 5901 17 |

**Prod Csg:** 5 1/2", 15 5 #, WC- 50 8RD  
**Set @** 5400' w/1760 sks  
**Hole Size** 7 7/8"  
**Circ.** yes **TOC: Surface**  
**TOC By** Circulation

| Perfs:   | Perfs:   | Status:       |
|----------|----------|---------------|
| 5588-94' | 5732-36' | Blinebry-open |
| 5622-30' | 5726-66' | Blinebry-open |
| 5688-92' | 5776-84' | Blinebry-open |
| 5696-98' | 5860-66' | Blinebry-open |
| 5718-22' | 5876-78' | Blinebry-open |

**Liner:** 4", 11 #  
**Set @** 5992' w/90 sks  
**Hole Size:** 4 3/4" **TOL:** 5078'  
**Circ:** yes **TOC:** 5078'  
**TOC By:** circulation

Well: Davis, FB #6

UL-8

|                    |         |
|--------------------|---------|
| <b>Location:</b>   |         |
| 510 FNL & 1350 FEL |         |
| Section            | 8       |
| Township           | 23S     |
| Range              | 37E     |
| County             | Lea, NM |

|                    |       |
|--------------------|-------|
| <b>Elevations:</b> |       |
| GL                 | 3325' |
| DF                 | 3326' |
| KB                 | 3338' |

This wellbore diagram is based on the most recent information regarding wellbore configuration and equipment that could be found in the Midland Office well files and computer databases as of the update date below. Verify what is in the hole with the well file in the Eunice Field Office. Discuss w/WEO Engineer, WO Rep, OS, ALS, & FS prior to rigging up on well regarding any hazards or unknown issues pertaining to the well.

DV Tool @ 4000'

CIBP @ 5000'

TOL @ 5078'

**Perfs**  
5200-5226'

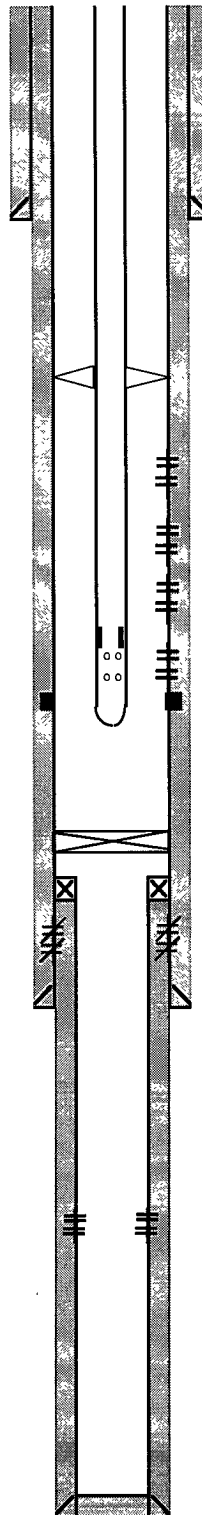
**Status**  
Glometa- squeezed

**Tubing Detail:**

| #Jts: | Size                          | Footage |
|-------|-------------------------------|---------|
|       | KB Correction                 | 11 00   |
| 116   | Jts 2 7/8" EUE 8R J-55 Tbg    | 3596 00 |
|       | TAC                           | 3 15    |
| 14    | Jts 2 7/8" EUE 8R J-55 Tbg    | 434 00  |
| 1     | Jt 2 7/8" EUE 8R J-55 IPC Tbg | 31 00   |
|       | SN                            | 1 10    |
|       | 2 7/8" x 4' Perf Tbg Sub      | 4 00    |
| 1     | Jt 2 7/8" EUE 8R J-55 Tbg     | 31 00   |
|       | Bull Plug                     | 0 50    |
| 132   | Bottom Of String >>           | 4111 75 |

COTD: 5952'  
PBSD: 5952'  
TD: 6000'  
Updated: 5/23/2007  
By: lgek

**Proposed**



**Perfs:**  
3715-21'  
3726-34'  
3738-48'  
3793-97'  
3820-30'  
3836-44'  
3852-54'  
3866-68'  
3874-82'  
3906-16'

Reservoir Grayburg

|                      |              |
|----------------------|--------------|
| <b>Well ID Info:</b> |              |
| Refno.               | BQ2635       |
| API No.              | 30-025-34105 |
| L5/L6                | UCMK90300    |
| Spud Date            | 8/25/1997    |
| Compl Date           | 10/3/1997    |

|                  |                          |              |
|------------------|--------------------------|--------------|
| <b>Surf Csg:</b> | 8 5/8", 24 #, WC- 50 STC |              |
| Set @            | 1165' w/ 675 sks         |              |
| Hole Size        | 11"                      |              |
| Circ             | yes                      | TOC: Surface |
| TOC By           | Circulation              |              |

**Status:**  
Grayburg - Open  
Grayburg - Open  
Grayburg - Open  
Grayburg - Open  
Grayburg - Open  
Grayburg - Open  
Grayburg - Open  
Grayburg - Open  
Grayburg - Open  
Grayburg - Open

|                  |                            |              |
|------------------|----------------------------|--------------|
| <b>Prod Csg:</b> | 5 1/2", 15 5 #, WC- 50 8RD |              |
| Set @            | 5400' w/1760 sks           |              |
| Hole Size        | 7 7/8"                     |              |
| Circ             | yes                        | TOC: Surface |
| TOC By           | Circulation                |              |

|               |               |                |
|---------------|---------------|----------------|
| <b>Perfs:</b> | <b>Perfs:</b> | <b>Status:</b> |
| 5588-94'      | 5732-36'      | Blinbry-open   |
| 5622-30'      | 5726-66'      | Blinbry-open   |
| 5688-92'      | 5776-84'      | Blinbry-open   |
| 5696-98'      | 5860-66'      | Blinbry-open   |
| 5718-22'      | 5876-78'      | Blinbry-open   |

|               |                |            |
|---------------|----------------|------------|
| <b>Liner:</b> | 4", 11 #       |            |
| Set @         | 5992' w/90 sks |            |
| Hole Size     | 4 3/4"         | TOL: 5078' |
| Circ          | yes            | TOC: 5078' |
| TOC By        | circulation    |            |

District I  
1625 N. French Dr., Hobbs, NM 88240  
District II  
1301 W. Grand Avenue, Artesia, NM 88210  
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State of New Mexico  
Energy, Minerals & Natural Resources Department  
OIL CONSERVATION DIVISION  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

Form C-102  
Revised October 12, 2005  
Submit to Appropriate District Office  
State Lease - 4 Copies  
Fee Lease - 3 Copies

☒ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

|   |   |  |
|---|---|--|
| <sup>1</sup> API Number<br>30-025-34105 | <sup>2</sup> Pool Code<br>37240                   | <sup>3</sup> Pool Name<br>LANGLIE MATTIX 7 RIVERS QUEEN GRAYBURG |
| <sup>4</sup> Property Code<br>29938     | <sup>5</sup> Property Name<br>F.B. DAVIS          | <sup>6</sup> Well Number<br>6                                    |
| <sup>7</sup> OGRID No.<br>4323          | <sup>8</sup> Operator Name<br>CHEVRON U.S.A. INC. | <sup>9</sup> Elevation<br>3325' GL                               |

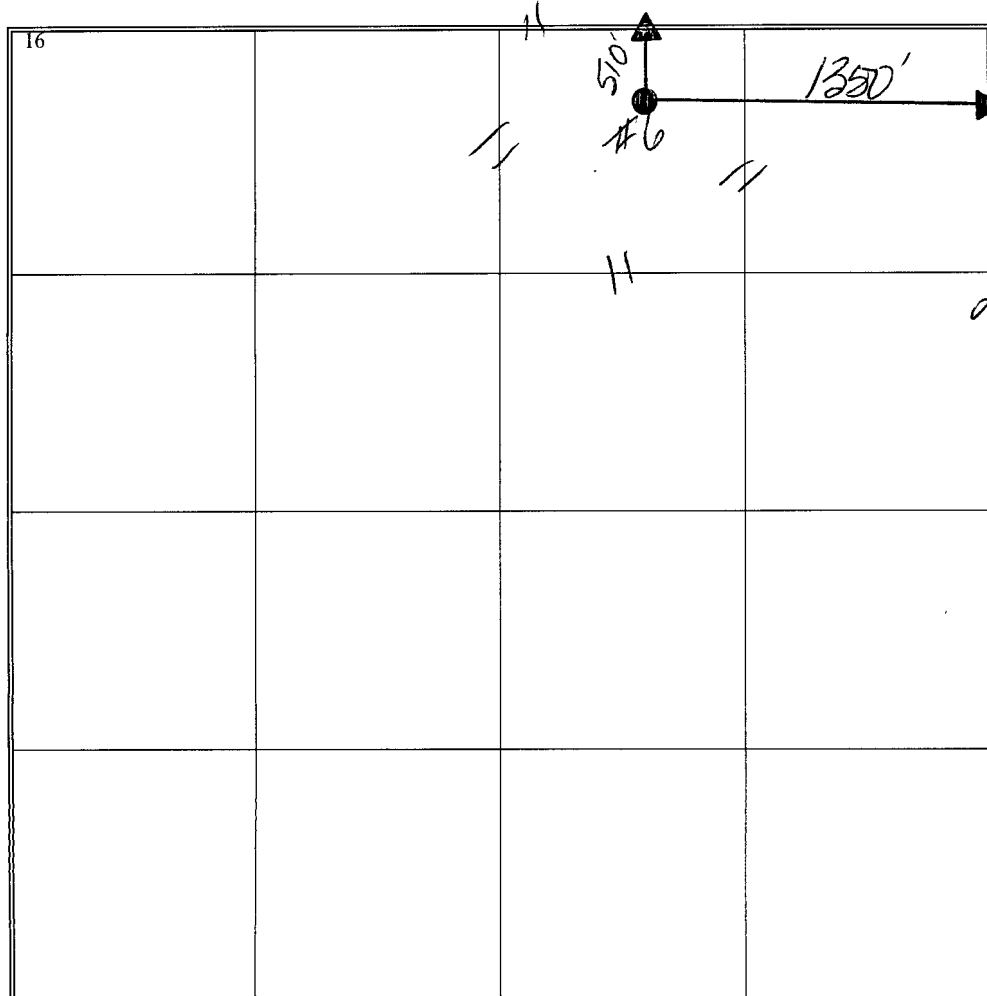

<sup>10</sup> Surface Location

|                    |              |                  |               |         |                      |                           |                       |                        |               |
|--------------------|--------------|------------------|---------------|---------|----------------------|---------------------------|-----------------------|------------------------|---------------|
| UL or lot no.<br>B | Section<br>8 | Township<br>23-S | Range<br>37-E | Lot Idn | Feet from the<br>510 | North/South line<br>NORTH | Feet from the<br>1350 | East/West line<br>EAST | County<br>LEA |
|--------------------|--------------|------------------|---------------|---------|----------------------|---------------------------|-----------------------|------------------------|---------------|

<sup>11</sup> Bottom Hole Location If Different From Surface

|                                     |                               |                                  |                                       |         |               |                  |               |                |        |
|-------------------------------------|-------------------------------|----------------------------------|---------------------------------------|---------|---------------|------------------|---------------|----------------|--------|
| UL or lot no.                       | Section                       | Township                         | Range                                 | Lot Idn | Feet from the | North/South line | Feet from the | East/West line | County |
| <sup>12</sup> Dedicated Acres<br>40 | <sup>13</sup> Joint or Infill | <sup>14</sup> Consolidation Code | <sup>15</sup> Order No.<br>VSL-3866-B |         |               |                  |               |                |        |

No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.

|   |  |
|---|--|
| <sup>16</sup><br> | <sup>17</sup> <b>OPERATOR CERTIFICATION</b><br><i>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division</i><br> 08-12-2008<br>Signature Date<br>DENISE PINKERTON REGULATORY SPECIALIST<br>Printed Name |
|   | <sup>18</sup> <b>SURVEYOR CERTIFICATION</b><br><i>I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief</i><br>Date of Survey<br>Signature and Seal of Professional Surveyor<br>Certificate Number  |