**STATE OF NEW MEXICO**
**ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT**
**OIL CONSERVATION DIVISION**

**IN THE MATTER OF THE HEARING CALLED BY THE OIL CONSERVATION DIVISION FOR THE PURPOSE OF CONSIDERING:**

**CASE NO. 11650**
**ORDER NO. R-5530-E**

**APPLICATION OF TEXACO EXPLORATION AND PRODUCTION INC. FOR AMENDMENT OF DIVISION ORDER NO. R-5530, AS AMENDED, TO INCREASE INJECTION PRESSURES IN ITS CENTRAL VACUUM UNIT PRESSURE MAINTENANCE PROJECT AREA, AUTHORIZE A TERTIARY RECOVERY PROJECT BY THE INJECTION OF CARBON DIOXIDE AND TO QUALIFY THIS PROJECT FOR THE RECOVERED OIL TAX RATE PURSUANT TO THE "ENHANCED OIL RECOVERY ACT", LEA COUNTY, NEW MEXICO.**

## ORDER OF THE DIVISION

**BY THE DIVISION:**

This cause came on for hearing at 8:15 a. m. on December 19, 1996, at Santa Fe, New Mexico, before Examiner David R. Catanach.

NOW, on this 30th day of April, 1997, the Division Director, having considered the testimony, the record, and the recommendations of the Examiner, and being fully advised in the premises,

**FINDS THAT:**

(1) Due public notice having been given as required by law, the Division has jurisdiction of this cause and the subject matter thereof.

(2) By Division Order R-5496, entered in Case No. 5970 on August 9, 1977, the Division, upon application of Texaco Inc., approved the Central Vacuum Unit, said unit comprising some 3,046 acres, more or less, of State and fee lands described as follows:

TOWNSHIP 17 SOUTH, RANGE 34 EAST, NMPM
Section 25: S/2, SE/4 NE/4
Section 36: All

TOWNSHIP 17 SOUTH, RANGE 35 EAST, NMPM
Section 30: All
Section 31: N/2, SW/4, SW/4 SE/4

TOWNSHIP 18 SOUTH, RANGE 34 EAST, NMPM
Section 12: N/2 NE/4

TOWNSHIP 18 SOUTH, RANGE 35 EAST, NMPM
Section 6: All
Section 7: NW/4, NW/4 NE/4

(3) By Order No. R-5530 entered in Case No. 6008 on September 20, 1977, the Division authorized Texaco Inc. to institute a pressure maintenance project within the aforesaid Central Vacuum Unit by the injection of water into the Grayburg and San Andres formations, Vacuum Grayburg-San Andres Pool, through fifty-five initial injection wells.

(4) The "Unitized Formation" for the Central Vacuum Unit includes the stratigraphic interval underlying the Unit Area in the Vacuum-Grayburg-San Andres Pool between the depths of 3,858 feet (plus 144 feet sub-sea) and 4,858 feet (minus 856 feet sub-sea) on the Welex Acoustic Velocity Log, run on November 15, 1963, in the Texaco Inc. State of New Mexico "O" (NCT-1) Well No. 23, located in Unit O of Section 36, Township 17 South, Range 34 East, NMPM, Lea County, New Mexico (now Vacuum Glorieta West Unit Well No. 101).

(5) The applicant, Texaco Exploration and Production Inc. (Texaco) seeks:

a) to amend Division Order No. R-5530, as amended, to authorize the implementation of tertiary recovery operations within the Central Vacuum Unit Pressure Maintenance Project by the alternate injection of water and carbon dioxide and produced gases (WAG) into the Grayburg and San Andres formations;

b) authorization to increase the surface injection pressure for water in certain injection wells to 1500 psi, provided that step rate tests conducted on these wells do not indicate fracturing of the injection formation;

c) authorization to inject carbon dioxide gas at a maximum surface injection pressure of 350 psi above the maximum allowed surface water injection pressure, not to exceed 1850 psi; and,

d) to qualify the proposed tertiary recovery project for the recovered oil tax rate pursuant to the "New Mexico Enhanced Oil Recovery Act" (Laws 1992, Chapter 38, Sections 1 through 5).

(6) The applicant proposed that the project area for the tertiary recovery project comprise some 1,550 acres, more or less, being a portion of the Central Vacuum Unit Area, described as follows:

TOWNSHIP 17 SOUTH, RANGE 34 EAST, NMPM
Section 25: S/2 S/2 SE/4, S/2 SE/4 SW/4, SE/4 SW/4 SW/4
Section 36: S/2, NE/4, E/2 NW/4, SW/4 NW/4, S/2 NW/4 NW/4, NE/4 NW/4 NW/4

TOWNSHIP 17 SOUTH, RANGE 35 EAST, NMPM
Section 30: S/2 S/2 SW/4, S/2 SW/4 SE/4, SW/4 SE/4 SE/4
Section 31: W/2, SW/4 SE/4, W/2 NE/4, SE/4 NE/4, S/2 NE/4 NE/4, NW/4 NE/4 NE/4

TOWNSHIP 18 SOUTH, RANGE 35 EAST, NMPM
Section 6: N/2 NW/4, NW/4 NE/4, SW/4 NW/4, N/2 NE/4 NE/4, SW/4 NE/4 NE/4, NW/4 SE/4 NE/4, N/2 SW/4 NE/4, N/2 SE/4 NW/4, SW/4 SE/4 NW/4, N/2 NW/4 SW/4, NW/4 NE/4 SW/4

(7) Current secondary recovery operations within the Central Vacuum Unit are summarized as follows:

| | |
|---|---|
| Number of Producing Wells: | 88 |
| Number of Injection Wells: | 86 |
| Current Oil Production: | 4,100 BOPD |
| Current Water Injection: | 63,000 BWPD |
| Cumulative Oil Recovery: | 72 MMSTBO |
| Cumulative Secondary Oil Recovery (1977-Date): | 42 MMSTBO |
| Current Average Water Cut: | 96% |

(8) According to evidence and testimony presented by the applicant, its plan of operation within the proposed tertiary recovery project includes:

a) implementing a change in the process used for the displacement of crude oil by initiating water-alternating-gas (WAG) injection (injecting water and carbon dioxide ($CO_2$) in alternating slugs of produced gas and $CO_2$ with slugs of water);

b) injecting an estimated 259 BCF of $CO_2$ and other produced gases and 148 million barrels of water over the life of the proposed tertiary project, which is estimated to be approximately 25 years;

c) utilizing a total of fifty-one (51) injection wells (all as shown on Exhibit "A" attached hereto) and seventy-one (71) producing wells (sixty-eight (68) existing wells and three (3) new wells proposed to be drilled) within the proposed tertiary recovery project; and,

d) injecting at sufficient pressure so as to maintain reservoir pressure at high enough levels to meet miscible pressure requirements in the reservoir.

(9) The proposed tertiary recovery project area (described in Finding No. 6 above) represents approximately 50 percent of the area contained within the Central Vacuum Unit. According to applicant's testimony, the proposed tertiary recovery project is being limited to only a portion of the Central Vacuum Unit for the following reasons:

a) the targeted area represents that portion of the Central Vacuum Unit which contains the best hydrocarbon pore volume within the Grayburg-San Andres reservoir; and,

b) the current economics of the proposed tertiary recovery project dictate that $CO_2$ injection should be initially limited to that portion of the Central Vacuum Unit containing sufficient hydrocarbon pore volume.

(10) Applicant further testified that the proposed tertiary recovery project may be expanded in the future into other areas of the Central Vacuum Unit in the event economic considerations become more favorable.

(11) Further evidence and testimony presented by the applicant indicates that the amount of recoverable oil attributed to a positive production response from the expanded use of enhanced oil recovery technology for the proposed tertiary recovery project is an estimated 20.3 million stock tank barrels along with 23.2 BCF of hydrocarbon gas.

(12) Texaco testified that the initiation of tertiary recovery operations utilizing the methodology proposed should result in the additional recovery set forth in Finding Paragraph No. (11) above for a projected cost of approximately $345.7 million which includes field installations and upgrades, well remediation, separation and compression facilities, the purchase of $CO_2$ and the costs associated with the recycling of injectant.

(13) The proposed tertiary recovery project is offset by the following described tertiary $CO_2$ floods within the Vacuum Grayburg-San Andres Pool, approved respectively, by Division Order Nos. R-6856, as amended, and Order No. R-10599-B:

a) to the east is the Phillips Petroleum Company East Vacuum Grayburg-San Andres Unit Pressure Maintenance Project located in portions of Townships 17 and 18 South, Range 35 East, NMPM, East Vacuum Grayburg-San Andres Unit Area, Lea County, New Mexico. The current authorized bottomhole pressure in this project area equates to a surface injection pressure for $CO_2$ of approximately 1850 psig; and,

b) to the west is the Phillips Petroleum Company State "35" Unit Pressure Maintenance Project which is also a $CO_2$ tertiary recovery project underlying the N/2, E/2 SW/4, and SE/4 of Section 35, Township 17 South, Range 34 East, NMPM, State "35" Com Unit Area, Lea County, New Mexico. The authorized surface injection pressure for $CO_2$ in this project area is 1850 psig.

(14) The evidence and testimony presented in this case indicates that it is prudent to implement the proposed tertiary recovery project within the Central Vacuum Unit at this time, and that such implementation will result in the recovery of additional oil and gas from the project area which may otherwise not be recovered, thereby preventing waste.

(15) The evidence further indicates that the oil and gas recovered as a result of implementing the proposed tertiary recovery project will be allocated to each tract within the Central Vacuum Unit on a fair and reasonable basis, thereby protecting correlative rights.

(16) The proposed tertiary recovery project should be approved.

(17) The evidence presented by Texaco indicates that the proposed tertiary recovery project meets all the criteria for certification by the Division as a qualified "Enhanced Oil Recovery Project" pursuant to the "Enhanced Oil Recovery Act" (Laws 1992, Chapter 38, Sections 1 through 5).

(18) The certified "EOR Project Area" should initially comprise the area described in Finding Paragraph No. (6) above, provided however, the "EOR Project Area" eligible for the recovered oil tax rate may be contracted and reduced dependent upon the evidence presented by the applicant in its demonstration of the occurrence of a positive production response.

(19) To be eligible for the EOR tax credit, the applicant should advise the Division when $CO_2$ (WAG) injection commences within the "EOR Project Area" and request the Division certify the subject tertiary recovery project to the New Mexico Taxation and Revenue Department.

(20) At such time as a positive production response occurs from $CO_2$ (WAG) injection operations and within seven years from the date of the Certificate of Qualification, the applicant must apply to the Division for certification of positive production response, which application shall identify the area actually benefiting from tertiary recovery operations. The Division may review the application administratively or set it for hearing. Based upon evidence presented, the Division will certify to the New Mexico Taxation and Revenue Department those lands and wells which are eligible for the tax credit.

(21) Division Order No. R-5530 established maximum surface injection pressures within the Central Vacuum Unit equal to 0.2 psi/ft. of depth to the uppermost injection perforation in each of the fifty-five initial injection wells, or approximately 800 psi.

(22) Throughout the course of secondary recovery operations, the maximum surface injection pressures for the injection wells within the Central Vacuum Unit have been increased upon a showing by the operator that such higher pressure will not result in the fracturing of the injection formation or confining strata. Pressure increases such as described are usually based upon the results of step rate tests.

(23) The current maximum surface injection pressures within the proposed tertiary recovery project area range from approximately 872 psi to 2775 psi.

(24) With regards to the injection pressures within the proposed tertiary recovery project area, the applicant seeks:

a) authority to inject $CO_2$ at a surface injection pressure 350 psi above the current maximum surface injection pressure for water for a given well (all as shown on applicant's Exhibit No. 12), said $CO_2$ injection pressure not to exceed 1850 psi;

b) authority to continue to conduct step rate tests and receive pressure increase authority on injection wells within the tertiary recovery project area whose current maximum surface injection pressure for water is less than 1500 psi; and,

c) authority to increase the surface injection pressure for water to 1500 psi on eight wells located within the tertiary recovery project area which have shown no "break" or fracture on current step rate tests, (these wells having been identified on applicant's Exhibit No. 12).

(25) The evidence and testimony presented by Texaco indicates that the proposed maximum $CO_2$ surface injection pressure of 1850 psi, or 350 psi above the current maximum surface injection pressure for water, is reasonable, necessary and should not result in the migration of injected fluid from the proposed injection interval.

(26) Texaco should be authorized to conduct step rate tests and obtain surface injection pressure increases for water within those injection wells in the tertiary recovery project area whose current maximum surface injection pressure for water is less than 1500 psi.

(27) Texaco should be required to submit current step rate tests on those eight wells described in Finding No. (24)(c) above prior to obtaining Division approval to increase the surface injection pressure for water on these wells to 1500 psi.

(28) All injection wells or the pressurization system should be initially equipped with a pressure control device or acceptable substitute which will limit the surface injection pressure to no more than the individual well surface injection pressure authorized by this order.

(29) The applicant testified that there are no "problem wells" within the one-half mile "area of review" and further testified that all plugged and abandoned wells and all producing wells are cemented in a manner adequate to confine the injected fluid to the proposed injection interval.

(30) Texaco proposed that each of the injection wells shown on Exhibit "A" be equipped no different than previously equipped for waterflood operation.

(31) In support of this request, Texaco testified that it anticipates no additional corrosion problems within these wellbores as a result of $CO_2$ injection.

(32) Texaco's request should be granted, provided however, the Division may require the installation of additional or upgraded wellbore tubulars and packers should it become apparent that the injection of $CO_2$ is causing beyond normal corrosion problems.

(33) If not previously equipped, each of the injection wells shown on Exhibit "A" should be equipped with internally coated tubing installed in a packer set within 100 feet of the uppermost injection perforation or casing shoe; the casing-tubing annulus should be filled with an inert fluid; and a gauge or approved leak-detection device should be attached to the annulus in order to determine leakage in the casing, tubing or packer.

(34) The operator should give advance notification to the supervisor of the Hobbs District Office of the Division of the date and time of the installation of any new injection equipment and of the mechanical integrity pressure tests in order that the same may be witnessed.

(35) The application should be approved and the project should be governed by the provisions of Rule Nos. 701 through 708 of the Oil Conservation Division Rules and Regulations.

**IT IS THEREFORE ORDERED THAT:**

(1) The applicant, Texaco Exploration and Production Inc., is hereby authorized to institute an EOR tertiary recovery project by means of combined water, carbon dioxide ($CO_2$), and produced gas injection (WAG) in its Central Vacuum Unit Area located in portions of Townships 17 and 18 South, Ranges 34 and 35 East, NMPM, Lea County, New Mexico, by the injection of water, $CO_2$, and produced gases into the Grayburg and San Andres formations, Vacuum-Grayburg-San Andres Pool, through the correlative gross perforated and/or open hole interval between the depths of 3,858 feet (plus 144 feet sub-sea) and 4,858 feet (minus 856 feet sub-sea) on the Welex Acoustic Velocity Log, run on November 15, 1963, in the Texaco Inc. State of New Mexico "O" (NCT-1) Well No. 23, located in Unit O of Section 36, Township 17 South, Range 34 East, NMPM, Lea County, New Mexico (now Vacuum Glorieta West Unit Well No. 101), within each of the fifty-one injection wells shown on Exhibit "A" attached hereto.

**IT IS FURTHER ORDERED THAT:**

(2) Any previous injection authority not in conflict with the provisions set forth in this order shall remain in full force and effect.

(3) WAG injection operations shall be accomplished through internally coated tubing installed in a packer set within approximately 100 feet of the uppermost injection perforations or casing shoe; the casing-tubing annulus shall be filled with an inert fluid and a gauge or approved leak-detection device shall be attached to the annulus in order to determine leakage in the casing, tubing or packer.

(4) For those injection wells within the "EOR Project Area" whose current maximum surface injection pressure for water is less than 1500 psi (as shown on applicant's Exhibit No. 12), the applicant is hereby authorized to inject water into each of these wells at the current maximum surface injection pressure, provided however, such pressure may be administratively increased by the Division upon a showing that such increase will not result in the fracturing of the injection formation or confining strata, and shall be further authorized to inject $CO_2$ and produced gases at a maximum surface injection pressure of 350 psi above the current maximum surface injection pressure for water, provided however, such $CO_2$ injection shall not occur at a surface injection pressure in excess of 1850 psi.

(5) For those injection wells within the "EOR Project Area" whose current maximum surface injection pressure for water exceeds 1500 psi (as shown on applicant's Exhibit No. 12), the applicant is hereby authorized to inject water into each of these wells at the current maximum surface injection pressure, and shall be further authorized to inject $CO_2$ and produced gases at a maximum surface injection pressure of 1850 psi.

(6) Texaco shall be required to submit current step rate tests on those eight wells described in Finding No. (24)(c) above prior to obtaining Division approval to increase the surface injection pressure for water on these wells to 1500 psi.

(7) The Division Director shall retain the authority to administratively authorize a pressure limitation in excess of the above pressure limits upon a showing by the operator that such higher pressure will not result in the fracturing of the injection formation or confining strata.

(8) The operator shall immediately notify the Supervisor of the Hobbs District Office of the Division of the failure of the casing in any of the injection wells, the leakage of water, natural gas, $CO_2$, or oil from or around any producing well, or the leakage of water, natural gas, $CO_2$, or oil from any plugged and abandoned well within the "EOR Project Area", and shall take such steps as may be necessary to correct such failure or leakage.

(9) The subject tertiary recovery project is hereby certified as a qualified "Enhanced Oil Recovery Project" pursuant to the"Enhanced Oil Recovery Act" (Laws 1992, Chapter 38, Sections 1 through 5).

(10) The certified and approved "EOR Project Area" shall include those lands described as follows, provided however, the "EOR Project Area" eligible for the recovered oil tax rate may be reduced dependent upon the evidence presented by the applicant in its demonstration of the occurrence of a positive production response.

TOWNSHIP 17 SOUTH, RANGE 34 EAST, NMPM
Section 25: S/2 S/2 SE/4, S/2 SE/4 SW/4, SE/4 SW/4 SW/4
Section 36: S/2, NE/4, E/2 NW/4, SW/4 NW/4, S/2 NW/4 NW/4, NE/4 NW/4 NW/4

TOWNSHIP 17 SOUTH, RANGE 35 EAST, NMPM
Section 30: S/2 S/2 SW/4, S/2 SW/4 SE/4, SW/4 SE/4 SE/4
Section 31: W/2, SW/4 SE/4, W/2 NE/4, SE/4 NE/4, S/2 NE/4 NE/4, NW/4 NE/4 NE/4

TOWNSHIP 18 SOUTH, RANGE 35 EAST, NMPM
Section 6: N/2 NW/4, NW/4 NE/4, SW/4 NW/4, N/2 NE/4 N/4, SW/4 NE/4 NE/4, NW/4 SE/4 NE/4, N/2 SW/4 NE/4, N/2 SE/4 NW/4, SW/4 SE/4 NW/4, N/2 NW/4 SW/4, NW/4 NE/4 SW/4

(11) To be eligible for the EOR credit, prior to commencing WAG injection operations, the operator must request from the Division a Certificate of Qualification, which certificate will specify the proposed project area as described above.

(12) At such time as a positive production response occurs and within seven years from the date of the Certificate of Qualification, the operator must apply to the Division for certification of positive production response, which application shall identify the area actually benefitting from enhanced recovery operations. The Division may review the application administratively or set it for hearing. Based upon evidence presented, the Division will certify to the New Mexico Taxation and Revenue Department those lands and wells which are eligible for the credit.

(13) The injection authority granted herein for the fifty-one WAG injection wells shall terminate one year after the effective date of this order if the operator has not commenced WAG injection operations into these wells, provided however, the Division, upon written request by the operator, may grant an extension thereof for good cause shown.

(14) The subject tertiary recovery project is hereby designated the Central Vacuum Unit Tertiary Recovery Project and shall be governed by the provisions of Rules Nos. 701 through 708 of the Oil Conservation Division Rules and Regulations.

(15) Monthly progress reports of the tertiary recovery project herein authorized shall be submitted to the Division in accordance with Rules 706 and 1115 of the Division Rules and Regulations.

(16) Jurisdiction is hereby retained for the entry of such further orders as the Division may deem necessary.

DONE at Santa Fe, New Mexico, on the day and year hereinabove designated.

STATE OF NEW MEXICO
OIL CONSERVATION DIVISION

WILLIAM J. LeMAY
Director

S E A L

**EXHIBIT "A"**
**CASE NO. 11650**
**ORDER NO. R-5530-E**
**TEXACO EXPLORATION AND PRODUCTION INC.**
**CENTRAL VACUUM UNIT**
**TERTIARY PROJECT INJECTION WELLS**

| WELL NO | FOOTAGE | U | SECTION | TWNSHP | RANGE | API NUMBERS |
|---|---|---|---|---|---|---|
| CVU #40 | 42' FNL, 1247' FWL | D | 36 | 17S | 34E | 30-025-25703 |
| U #41 | 60' FNL, 2552' FWL | C | 36 | 17S | 34E | 30-025-25704 |
| U #42 | 32' FNL, 1286' FEL | A | 36 | 17S | 34E | 30-025-25705 |
| CVU #43 | 35' FNL, 127' FEL | A | 36 | 17S | 34E | 30-025-25706 |
| CVU #44 | 134' FNL, 1219' FWL | D | 31 | 17S | 35E | 30-025-25719 |
| CVU #45 | 121' FNL, 2475' FWL | C | 31 | 17S | 35E | 30-025-25720 |
| CVU #46 | 119' FNL, 1224' FEL | A | 31 | 17S | 35E | 30-025-25818 |
| CVU #55 | 1310' FNL, 1310' FWL | D | 36 | 17S | 34E | 30-025-25721 |
| CVU #56 | 1310' FNL, 2630' FWL | C | 36 | 17S | 34E | 30-025-25722 |
| CVU #57 | 1310' FNL, 1330' FEL | B | 36 | 17S | 34E | 30-025-25723 |
| CVU #58 | 1310' FNL, 132' FEL | A | 36 | 17S | 34E | 30-025-25724 |
| CVU #59 | 1403' FNL, 1200' FWL | E | 31 | 17S | 35E | 30-025-25725 |
| CVU #60 | 1310' FNL, 2535' FWL | C | 31 | 17S | 35E | 30-025-25707 |
| CVU #61 | 1310' FNL, 1230' FEL | A | 31 | 17S | 35E | 30-025-25819 |
| CVU #70 | 2630' FNL, 1310' FWL | E | 36 | 17S | 34E | 30-025-25726 |
| CVU #71 | 2630' FNL, 2623' FEL | G | 36 | 17S | 34E | 30-025-25727 |
| CVU #72 | 2630' FNL, 1330' FEL | G | 36 | 17S | 34E | 30-025-25697 |
| CVU #73 | 2630' FNL, 142' FEL | H | 36 | 17S | 34E | 30-025-25728 |
| CVU #74 | 2561' FSL, 1180' FWL | L | 31 | 17S | 35E | 30-025-25729 |
| CVU #81 | 1332' FSL, 1310' FWL | L | 36 | 17S | 34E | 30-025-25708 |
| CVU #82 | 1333' FSL, 2528' FWL | K | 36 | 17S | 34E | 30-025-25730 |
| U #83 | 1330' FSL, 1330' FEL | J | 36 | 17S | 34E | 30-025-25731 |
| U #84 | 1333' FSL, 151' FEL | I | 36 | 17S | 34E | 30-025-25732 |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| CVU #85 | 1336' FSL, 1201' FWL | L | 31 | 17S | 35E | 30-025-25709 |
| CVU #93 | 10' FSL, 1136 FWL | M | 31 | 17S | 35E | 30-025-25733 |
| CVU #94 | 50' FSL, 2549' FEL | O | 31 | 17S | 35E | 30-025-25734 |
| CVU #99 | 1408' FNL, 1211' FWL | E | 6 | 18S | 35E | 30-025-25710 |
| CVU #100 | 1372' FNL, 2544' FWL | F | 6 | 18S | 35E | 30-025-25711 |
| CVU #101 | 1410' FNL, 1336' FEL | G | 6 | 18S | 35E | 30-025-25712 |
| CVU #106 | 2520' FNL, 1040' FWL | E | 6 | 18S | 35E | 30-025-25796 |
| CVU #136 | 2450' FNL, 40' FWL | E | 6 | 18S | 35E | 30-025-25997 |
| CVU #137 | 1100' FNL, 40' FWL | D | 6 | 18S | 35E | 30-025-25998 |
| CVU #138 | 10' FSL, 70' FEL | P | 36 | 17S | 34E | 30-025-25999 |
| CVU #139 | 85' FSL, 958' FEL | P | 36 | 17S | 34E | 30-025-26078 |
| CVU #140 | 10' FSL, 2571' FWL | N | 36 | 17S | 34E | 30-025-26000 |
| CVU #141 | 10' FSL, 1310' FWL | M | 36 | 17S | 34E | 30-025-26001 |
| CVU #144 | 35' FNL, 1330' FEL | B | 6 | 18S | 35E | 30-025-26788 |
| CVU #145 | 1310' FSL, 2475' FWL | N | 31 | 17S | 35E | 30-025-26789 |
| CVU #146 | 2465' FNL, 1335' FEL | G | 31 | 17S | 35E | 30-025-26790 |
| CVU #147 | 1310' FNL, 200' FEL | A | 31 | 17S | 35E | 30-025-26791 |
| CVU #159 | 1310' FNL, 100' FWL | D | 36 | 17S | 34E | 30-025-27969 |
| CVU #160 | 2602' FNL, 35' FWL | E | 36 | 17S | 34E | 30-025-27970 |
| CVU #161 | 180' FSL 10' FWL | M | 36 | 17S | 34E | 30-025-27971 |
| CVU #193 | 101' FNL, 534' FWL | D | 6 | 18S | 35E | 30-025-32800 |
| CVU #194 | 14' FNL, 1917' FWL | C | 6 | 18S | 35E | 30-025-38010 |
| CVU #199 | 1372' FNL, 584' FWL | E | 6 | 18S | 35E | 30-025-32804 |
| CVU #200 | 1301' FNL, 1875' FWL | C | 6 | 18S | 35E | 30-025-32805 |
| CVU #201 | 1360' FNL, 1973' FEL | G | 6 | 18S | 35E | 30-025-32806 |
| CVU #206 | 2509' FNL, 536' FWL | E | 6 | 18S | 35E | 30-025-32808 |
| CVU #207 | 2500' FNL, 1825' FWL | F | 6 | 18S | 35E | 30-025-32809 |
| CVU #244 | 10' FNL, 1930' FEL | B | 6 | 18S | 35E | 30-025-32810 |