

CASE 1/A: Filed with Salt Agreement Case
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Case No.

1564

Application, Transcript,
Small Exhibits, Etc.

Case # 1564

NORTH CENTRAL CAPROCK QUEEN UNIT
Lea and Chaves Counties, New Mexico

FLOOD NO. 750-10

PROGRESS REPORT NO. 23

November, 1960

Unit Production for the month of November was 36,908 barrels of oil for an average of 1,230 barrels per day. This is an increase of 32 barrels per day over October. Sales for this period were 36,900 barrels.

Total water injection for November was 178,435 barrels for an average of 248 barrels per well per day. Wells 24-4, 14-14 and 15-8 were connected and converted to injection wells. Wells 14-4 and 15-16 have been converted and will be connected as soon as the weather permits. Well 14-12 was delayed by a fishing job. The completion of these projects in the next few days will give the North Central Caprock Queen Unit the desired injection pattern.

Well 13-15 was drilled, fraced and completed as a producer. Wells 14-1 and 13-11 were cleaned out and returned to production. Well 13-5 had 2-1/2" tubing and pump installed. The above and conversion of injection wells, with one Isoflow Survey, accounted for the pulling unit work this month.

Triplex pump #2 was down 19 hours because of a broken side rod. Other than this the Unit and Injection Plant operations were normal.

WATER INJECTION DATA

| Well No. | Maximum Pressure | Average Daily Injection - BWPD | Monthly Total - BW | Cumulative Total - BW |
|-------------|---------------------|-----------------------------------|-----------------------|--------------------------|
| 13-2 | 900 | 531 | 15,943 | 342,210 |
| 13-4 | 900 | 261 | 7,841 | 148,495 |
| 13-6 | 900 | 100 | 2,989 | 78,650 |
| 13-8 | 900 | 129 | 3,865 | 100,339 |
| 13-10 | 900 | 16 | 468 | 12,783 |
| 13-12 | 900 | 128 | 3,832 | 62,210 |
| 13-14 | 900 | 31 | 930 | 8,380 |
| 13-16 | 900 | 83 | 2,499 | 48,066 |
| 14-2 | 880 | 354 | 10,611 | 99,654 |
| 14-4 | 800 | 866 | 25,965 | 43,622 |
| 14-6 | 600 | 1,133 | 34,003 | 148,787 |
| 14-8 | 900 | 444 | 13,316 | 159,870 |
| 14-10 | 900 | 613 | 18,383 | 87,197 |
| 14-14 | 0 | 1,062 (2 days) | 2,125 | 2,125 |
| 14-16 | 900 | 155 | 4,641 | 34,964 |
| 17-4 | 900 | 77 | 2,303 | 35,757 |
| 18-2 | 900 | 198 | 5,927 | 74,558 |
| 18-4 | 900 | 152 | 4,562 | 275,644 |
| 18-6 | 900 | 191 | 5,733 | 125,945 |
| 18-8 | 900 | 111 | 3,325 | 37,931 |
| 18-12 | 900 | 49 | 1,478 | 112,502 |
| 18-14 | 900 | 78 | 2,344 | 56,962 |
| 19-4 | 900 | 54 | 1,620 | 18,343 |
| 24-4 | 900 | 328 | 3,732 | 3,732 |
| Total | | | 178,435 | 2,113,726 |

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MONTHLY AND CUMULATIVE PRODUCTION

| Well No. | Avg. Daily Prod. - Oil | Avg. Daily Prod. - Water | Monthly Oil | Monthly Water | Cumulative Oil | Cumulative Water |
|--|------------------------|--------------------------|-------------|---------------|----------------|------------------|
| 13-1 | 25.4 | 574 | 762 | 17,220 | 92,198 | 145,188 |
| 13-3 | 81.3 | 30 | 2,439 | 900 | 19,391 | 1,140 |
| 13-5 | 41.2 | 0 | 1,236 | 0 | 16,831 | 6,168 |
| 13-7 | 18.8 | 21 | 564 | 630 | 2,802 | 7,500 |
| 13-9 | 5.7 | 6 | 171 | 180 | 1,789 | 619 |
| 13-11 | 27.3 | 1 | 819 | 30 | 5,739 | 203 |
| 13-13 | 13.9 | 0 | 416 | 0 | 3,883 | 0 |
| 13-15 | 21.2 (10 days) | 0 | 212 | 0 | 212 | 0 |
| 14-1 | 38.3 | 48 | 1,149 | 1,440 | 14,156 | 5,903 |
| 14-3 | 88.2 | 10 | 2,646 | 300 | 7,586 | 331 |
| 14-5 | 6.8 | 0 | 204 | 0 | 5,676 | 30 |
| 14-7 | 244.5 | 120 | 7,005 | 3,600 | 55,151 | 7,320 |
| 14-9 | 99.5 | 0 | 2,985 | 0 | 9,583 | 0 |
| 14-11 | 5.7 | 0 | 171 | 0 | 6,132 | 15 |
| 14-12 | 6.3 | 0 | 189 | 0 | 3,479 | 0 |
| 14-13 | 6.1 | 0 | 183 | 0 | 3,522 | 7 |
| 14-14 | 12.1 | 0 | 364 | 0 | 6,428 | 34 |
| 14-15 | 101.0 | 0 | 3030 | 0 | 7,970 | 0 |
| 15-8 | (Shut In) | | | | | |
| 15-9 | 1.5 | 0 | 45 | 0 | 522 | 0 |
| 15-16 | 1.5 | 0 | 45 | 0 | 524 | 0 |
| 17-3 | 30.4 | 120 | 912 | 3,600 | 5,930 | 17,320 |
| 18-1 | 27.3 | 0 | 819 | 0 | 2,928 | 741 |
| 18-3 | 108.0 | 128 | 3,240 | 3,840 | 54,520 | 21,668 |
| 18-5 | 65.7 | 7 | 1,971 | 210 | 36,150 | 1,880 |
| 18-7 | 46.5 | 2 | 1,395 | 60 | 23,136 | 60 |
| 18-11 | 83.0 | 6 | 2,490 | 180 | 51,673 | 1,083 |
| 18-13 | 37.2 | 5 | 1,116 | 150 | 7,929 | 213 |
| Production of wells converted to Injection | | | | | 27,597 | 455 |
| Totals | | | 36,908 | 32,340 | 473,437 | 217,878 |

WELL REMEDIAL WORK

| Date | Well No. | Remarks |
|----------|----------|---------------------------------------|
| 11-5-60 | 14-1 | Fishing rods. |
| 11-6-60 | 14-1 | Cleaning out. |
| | 13-5 | Pulling rods and tubing. |
| 11-7-60 | 14-1 | Reran tubing w/ 1-3/4" pump. |
| | 13-5 | Ran 2-1/2" tubing. Put on production. |
| 11-8-60 | 13-11 | Pulled to clean out |
| | 14-1 | Ran rods - put on production. |
| 11-9-60 | 13-11 | Cleaning out |
| 11-10-60 | 13-11 | Ran tubing and rods. |

NORTH CENTRAL CAPROCK QUEEN UNIT
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WELL REMEDIAL WORK (Contd).

| <u>Date</u> | <u>Well No.</u> | <u>Remarks</u> |
|-------------|-----------------|---|
| 11-16-60 | 13-15 | Fraced w/ 7500 gal. lease crude plus 15,000# sand. |
| | 24-4 | Pulled - cleaning out. |
| 11-17-60 | 13-15 | Moved in Pumping Unit, ran tubing. |
| | 24-4 | Cleaned out - ran tubing. |
| 11-18-60 | 13-15 | Ran rods - put on production. |
| | 24-4 | Put on Injection. |
| 11-26-60 | 14-14 | Pulling tubing. |
| 11-27-60 | 14-14 | Cleaning out. |
| | 24-4 | Ran Isoflow. |
| 11-28-60 | 14-14 | Put on Injection. (Ran tubing and packer) @ 3:30 P.M. |
| | 14-12 | Pulling |
| 11-29-60 | 14-12 | Pulling and cleaning out. |
| | 15-16 | Pulling and cleaning out. |
| 11-30-60 | 14-12 | Cleaning out. |
| | 15-16 | Ran tubing and packer to put on injection. |
| | 15-8 | Pulled and cleaned out. |

WELL STATUS

24 Injection Wells
27 Producing Wells
1 Water Well

UNIT EMPLOYEES

1 Pumper

GREAT WESTERN DRILLING COMPANY

By O. H. Crews
O. H. Crews

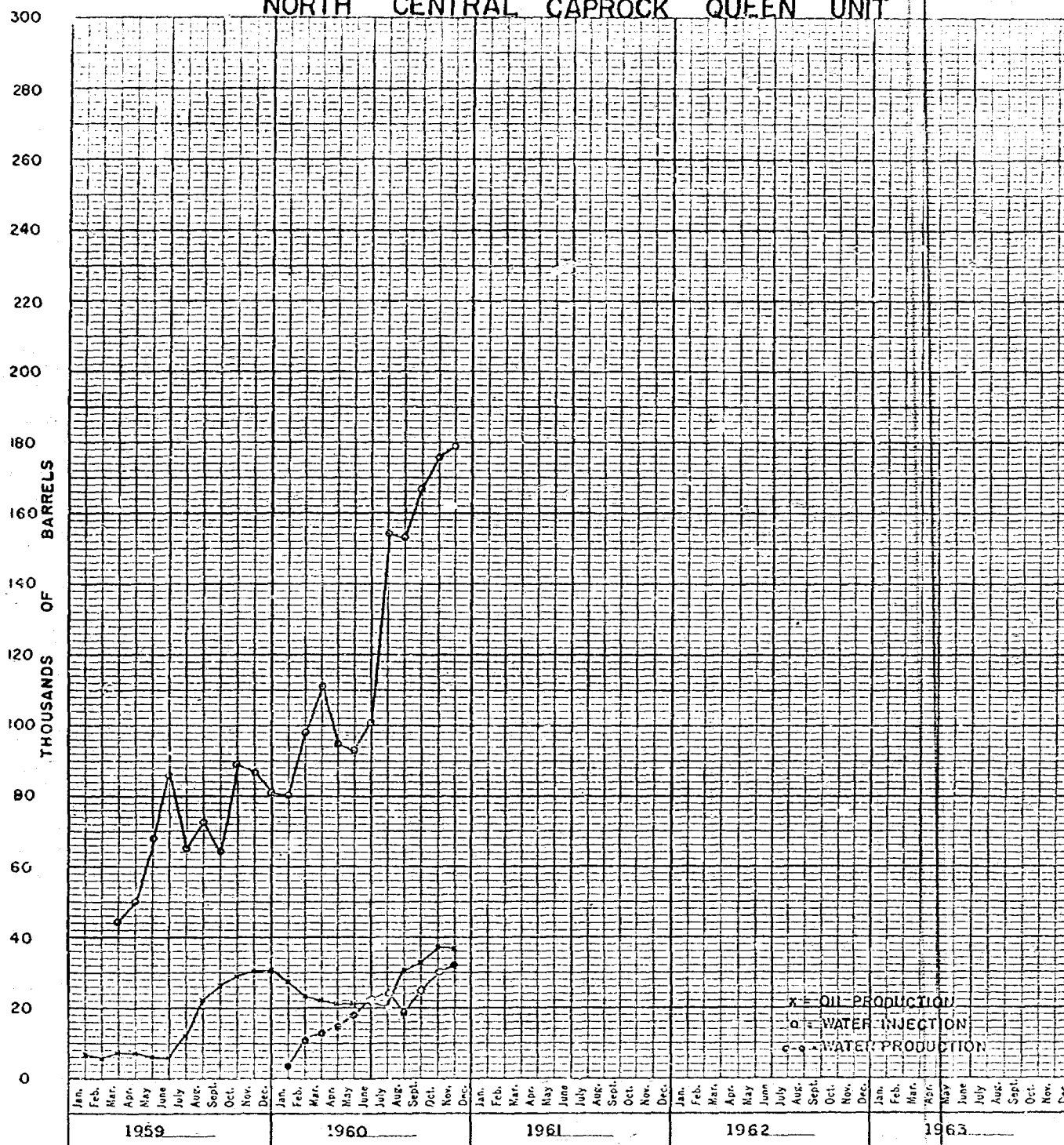
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12-13-60

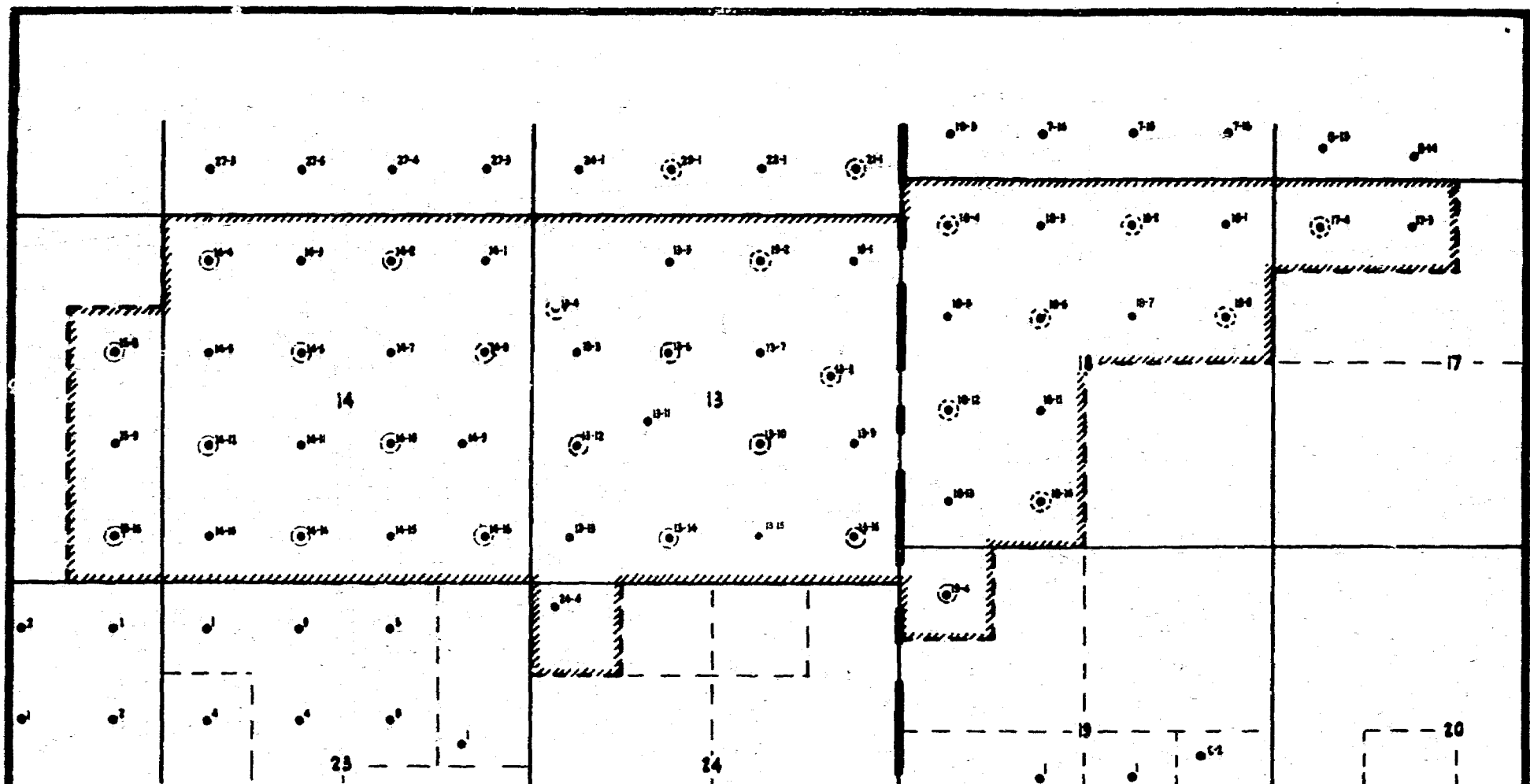
NORTH CENTRAL CAPROCK QUEEN UNIT

THOUSANDS OF BARRELS

Legend:
 x = OIL PRODUCTION
 o = WATER INJECTION
 • = WATER PRODUCTION

| Month | Oil Production (x) | Water Injection (o) | Water Production (•) |
|------------|--------------------|---------------------|----------------------|
| Jan. 1959 | 0 | 0 | 0 |
| Feb. 1959 | 0 | 0 | 0 |
| Mar. 1959 | 0 | 0 | 0 |
| Apr. 1959 | 0 | 0 | 0 |
| May 1959 | 0 | 0 | 0 |
| June 1959 | 0 | 0 | 0 |
| July 1959 | 0 | 0 | 0 |
| Aug. 1959 | 0 | 0 | 0 |
| Sept. 1959 | 0 | 0 | 0 |
| Oct. 1959 | 0 | 0 | 0 |
| Nov. 1959 | 0 | 0 | 0 |
| Dec. 1959 | 0 | 0 | 0 |
| Jan. 1960 | 0 | 0 | 0 |
| Feb. 1960 | 0 | 0 | 0 |
| Mar. 1960 | 0 | 0 | 0 |
| Apr. 1960 | 0 | 0 | 0 |
| May 1960 | 0 | 0 | 0 |
| June 1960 | 0 | 0 | 0 |
| July 1960 | 0 | 0 | 0 |
| Aug. 1960 | 0 | 0 | 0 |
| Sept. 1960 | 0 | 0 | 0 |
| Oct. 1960 | 0 | 0 | 0 |
| Nov. 1960 | 0 | 0 | 0 |
| Dec. 1960 | 0 | 0 | 0 |
| Jan. 1961 | 0 | 0 | 0 |
| Feb. 1961 | 0 | 0 | 0 |
| Mar. 1961 | 0 | 0 | 0 |
| Apr. 1961 | 0 | 0 | 0 |
| May 1961 | 0 | 0 | 0 |
| June 1961 | 0 | 0 | 0 |
| July 1961 | 0 | 0 | 0 |
| Aug. 1961 | 0 | 0 | 0 |
| Sept. 1961 | 0 | 0 | 0 |
| Oct. 1961 | 0 | 0 | 0 |
| Nov. 1961 | 0 | 0 | 0 |
| Dec. 1961 | 0 | 0 | 0 |
| Jan. 1962 | 0 | 0 | 0 |
| Feb. 1962 | 0 | 0 | 0 |
| Mar. 1962 | 0 | 0 | 0 |
| Apr. 1962 | 0 | 0 | 0 |
| May 1962 | 0 | 0 | 0 |
| June 1962 | 0 | 0 | 0 |
| July 1962 | 0 | 0 | 0 |
| Aug. 1962 | 0 | 0 | 0 |
| Sept. 1962 | 0 | 0 | 0 |
| Oct. 1962 | 0 | 0 | 0 |
| Nov. 1962 | 0 | 0 | 0 |
| Dec. 1962 | 0 | 0 | 0 |
| Jan. 1963 | 0 | 0 | 0 |
| Feb. 1963 | 0 | 0 | 0 |
| Mar. 1963 | 0 | 0 | 0 |
| Apr. 1963 | 0 | 0 | 0 |
| May 1963 | 0 | 0 | 0 |
| June 1963 | 0 | 0 | 0 |
| July 1963 | 0 | 0 | 0 |
| Aug. 1963 | 0 | 0 | 0 |
| Sept. 1963 | 0 | 0 | 0 |
| Oct. 1963 | 0 | 0 | 0 |
| Nov. 1963 | 0 | 0 | 0 |
| Dec. 1963 | 0 | 0 | 0 |





NORTH CENTRAL CAPROCK QUEEN UNIT
GREAT WESTERN DRILLING COMPANY, OPERATOR

- Producing Well
- ⊙ Injection Well
- Unit Outline

