

FILE NOTATIONS

|                           |             |                          |             |
|---------------------------|-------------|--------------------------|-------------|
| Entered in NID File       | .....✓..... | Checked by Chief         | .....✓..... |
| Entered On S.R. Sheet     | .....✓..... | Copy NID to Field Office | .....✓..... |
| Location Map Signed       | .....✓..... | Approval Letter          | .....✓..... |
| Card Indexed              | .....✓..... | Disapproval Letter       | .....       |
| IWR for State or Fee Land | .....       |                          |             |

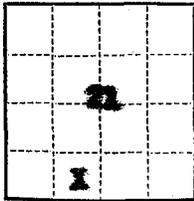
COMPLETION DATA:

|  |         |                   |       |
|--|---------|-------------------|-------|
| Date Well Completed                        | 9-26-56 | Location Approved | ..... |
| OW <input checked="" type="checkbox"/> VPL | TA      | Bond received     | ..... |
| GW   | CS TA   | State of Fee Land | ..... |

LOGS FILED

|                     |          |       |     |        |       |       |
|---------------------|----------|-------|-----|--------|-------|-------|
| Driller's Log       | 10-25-56 |       |     |        |       |       |
| Electric Logs (No.) | 6        |       |     |        |       |       |
| E                   | 3        | I     | E-I | GR     | GR-N2 | Micro |
| Lat                 | M-I-L    | Sonic |     | Others |       |       |

*1 Radioactivity*



(SUBMIT IN TRIPLICATE)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

Land Office Salt Lake City  
Lease No. U 01890  
Unit Reception Creek

SUNDRY NOTICES AND REPORTS ON WELLS

|  |                                     |  |  |
|--|-------------------------------------|--|--|
| NOTICE OF INTENTION TO DRILL                   | <input checked="" type="checkbox"/> | SUBSEQUENT REPORT OF WATER SHUT-OFF        |  |
| NOTICE OF INTENTION TO CHANGE PLANS            |                                     | SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING |  |
| NOTICE OF INTENTION TO TEST WATER SHUT-OFF     |                                     | SUBSEQUENT REPORT OF ALTERING CASING       |  |
| NOTICE OF INTENTION TO RE-DRILL OR REPAIR WELL |                                     | SUBSEQUENT REPORT OF RE-DRILLING OR REPAIR |  |
| NOTICE OF INTENTION TO SHOOT OR ACIDIZE        |                                     | SUBSEQUENT REPORT OF ABANDONMENT           |  |
| NOTICE OF INTENTION TO PULL OR ALTER CASING    |                                     | SUPPLEMENTARY WELL HISTORY                 |  |
| NOTICE OF INTENTION TO ABANDON WELL            |                                     |  |  |

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

July 12, 1956

Reception Creek  
Well No. Unit 1 is located 660 ft. from [S] line and 1900 ft. from [W] line of sec. 21  
SE SW 21 10S 23E S.L.S.M.  
(1/4 Sec. and Sec. No.) (Twp.) (Range) (Meridian)  
Utah San Juan Utah  
(Field) (County or Subdivision) (State or Territory)

The elevation of the derrick floor above sea level is 4488.15 ft. (Approx. gnd)

DETAILS OF WORK

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work)

Exploratory Well

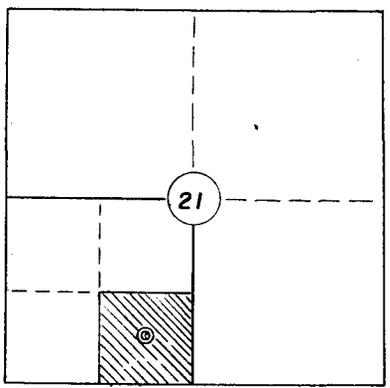
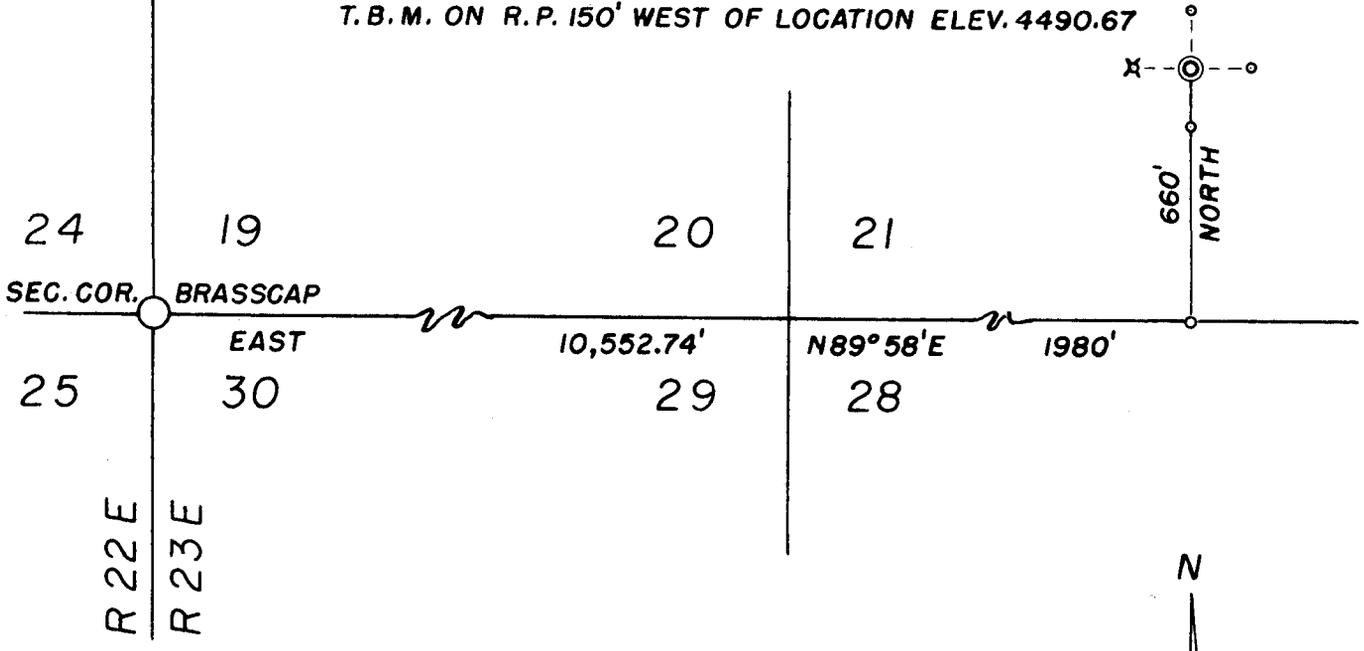
1. Drill 12 1/4" hole to 1100'+
2. Run and cement 9 5/8" casing at 1100'+ with sufficient cement to reach surface.
3. Drill 7 7/8" hole to 7100'+.
4. If commercial production is obtained a supplementary completion notice will be filed, otherwise, plug and abandon in accordance with U.S.G.S. regulations.  
Surface formation is The Reception.

I understand that this plan of work must receive approval in writing by the Geological Survey before operations may be commenced.

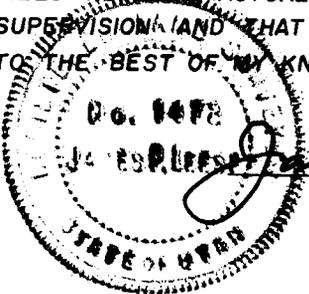
Company Shell Oil Company  
Address 31 Richards Street  
Salt Lake City, Utah  
By B.W. Shepard  
Title B.W. Shepard  
Exploitation Engineer

24 19  
1/4 COR. BRASSCAP

WELL LOCATION, RECAPTURE CREEK, UNIT NO. 1  
660' FROM THE SOUTH LINE AND 1980' FROM THE WEST LINE SEC. 21 T40S R23E  
R.P.'S. SET 150' N, E, S & W.  
ELEVATION OF LOCATION 4488.15 (UNGRADED GROUND)  
T.B.M. ON R.P. 150' WEST OF LOCATION ELEV. 4490.67



THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM  
FIELD NOTES OF ACTUAL SURVEYS MADE BY ME OR UNDER MY  
SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT  
TO THE BEST OF MY KNOWLEDGE AND BELIEF.



*James P. Leese*  
JAMES P. LEESE  
REGISTERED LAND SURVEYOR  
REG. NO. 1472 UTAH

|   |                  |
|---|------------------|
| SHELL OIL CO.   |                  |
| WELL LOCATION SE 1/4 SW 1/4<br>SECTION 21 T40S R23E SLM<br>SAN JUAN COUNTY UTAH |                  |
| APRIL 29 1956   | SCALE: 1" = 500' |
| DRAWN BY W.C.   |                  |
| SAN JUAN ENGINEERING CO.<br>FARMINGTON NEW MEXICO                               |                  |

SHELL OIL COMPANY

WEEK ENDING \_\_\_\_\_

AREA OR FIELD Recapture

CORE FROM 5380 TO 5430

CORE RECORD

COMPANY Shell Oil

CORES EXAMINED BY Knight & Robinson

LEASE AND WELL NO. 1

| NO. | FROM   | TO     | RECOVERED | FORMATIONAL, STRUCTURAL AND PROBABLE PRODUCTIVITY DESCRIPTION OF CORE   | SYMBOL | OBSERVED DIP | CORE INDICATIONS OIL-GAS |
|-----|--------|--------|-----------|---|--------|--------------|--------------------------|
|     |        |        |           |   |        |              | CORE OR DITCH            |
| 1   | 5380   | 5430   | 50'       |   |        |              |                          |
|     | 5380   | 5413   | 33'       | <u>Shale</u> , black, massive, calcareous with rare irregular calcite veins.  |        |              | See Description          |
|     | 5413   | 5414.5 | 1.5'      | <u>Limestone</u> , black, III FA, very argillaceous with scattered small brachiopods; patches large white calcite crystals at 5413-14, <u>calcite veins and patches, show strong gold fluorescence and cut fluorescence.</u>        |        |              |                          |
|     | 5414.5 | 5418   | 3.5'      | <u>Limestone</u> , gray, III F-MA, top contact irregular  |        |              |                          |
|     | 5418   | 5424.5 | 6.5'      | <u>Dolomite</u> , medium gray, III F-MA with thin irregular black shale partings. 5420.5-5423, <u>slight bleeding of light green oil along minute fractures. Fractures show pale blue yellow fluorescence and cut fluorescence.</u> |        |              |                          |
|     | 5424.5 | 5430   | 5.5'      | <u>Anhydrite</u> , gray, coarse, crystalline, massive with thin irregular shale partings, top 2" dolomitic and argillaceous, irregular 15° + dip at upper contact.  |        | 15°          |                          |

SYMBOLS: C-CLAY OR SHALE (SAND 0-5%). 1-CLAY OR SHALE WITH SAND STREAKS (SAND 5-25%). 2-CLAY OR SHALE AND SAND (SAND 25-60%). 3-SAND WITH SHALE STREAKS (SAND 60-90%). 5-SAND (90-100%).

NOTE: SHOW FLUID CONTENT AS IN STANDARD LEGEND.

## SHELL OIL COMPANY

WEEK ENDING \_\_\_\_\_

CORE FROM 5430 TO 5480CORES EXAMINED BY Knight & Robinson

## CORE RECORD

AREA OR FIELD Recapture CreekCOMPANY Shell Oil CompanyLEASE AND WELL NO. 1

| NO. | FROM   | TO     | RECOVERED | FORMATIONAL, STRUCTURAL AND PROBABLE PRODUCTIVITY DESCRIPTION OF CORE   | SYMBOL | OBSERVED DIP | CORE INDICATIONS<br>OIL-GAS |
|-----|--------|--------|-----------|---|--------|--------------|-----------------------------|
|     |        |        |           |   |        |              | CORE OR DITC!               |
| 2   | 5430   | 5480   | 50'       |   |        |              | See Description             |
|     | 5430   | 5436.5 | 6.5'      | <u>Anhydrite</u> , gray, coarse crystalline, massive with thin irregular black shale stringers - bottom contact gradational.                              |        |              |                             |
|     | 5436.5 | 5441.6 | 5.1'      | <u>Dolomite</u> , dark gray brown, III FA, argillaceous, few micro fractures at <u>5437-38</u> , spotty blue, yellow fluorescence, pale cut fluorescence. |        |              |                             |
|     | 5441.6 | 5442   | .4'       | <u>Shale</u> , black.   |        |              |                             |
|     | 5442   | 5444.6 | 2.6'      | <u>Dolomite</u> , very dark gray brown, III FA, very argillaceous, micaceous, at <u>42-43</u> fluorescence and cut fluorescence as above.                 |        |              |                             |
|     | 5444.6 | 5444.8 | .2'       | <u>Shale</u> , black, carbonaceous.   |        |              |                             |
|     | 5444.8 | 5446.5 | 1.7'      | <u>Limestone</u> , black, III FA, argillaceous.   |        |              |                             |
|     | 5446.5 | 5447.5 | 1'        | <u>Dolomite</u> , dark gray, III FA.  |        |              |                             |
|     | 5447.5 | 5454.2 | 6.7'      | <u>Limestone</u> , dark gray, III FA.   |        |              |                             |
|     | 5454.2 | 5456   | 1.8'      | <u>Anhydrite</u> with thin irregular black shale partings.  |        |              |                             |
|     | 5456   | 5458.7 | 2.7'      | <u>Limestone</u> , dark gray, I-III VF-FA with patches and streaks anhydrite.   |        |              |                             |
|     | 5458.7 | 5466   | 7.3'      | <u>Limestone</u> , medium gray, I-III VF-FA.  |        |              |                             |
|     | 5466   | 5472   | 6'        | <u>Limestone</u> , light - medium gray, IVFA with fusulinids at 5470-72.  |        |              |                             |
|     | 5472   | 5474.6 | 2.6'      | <u>Limestone</u> , medium gray brown, IVFA.   |        |              |                             |
|     | 5474.6 | 5475   | .4'       | <u>Dolomite</u> , tan, III FA.  |        |              |                             |
|     | 5475   | 5476.5 | 1.5'      | <u>Limestone</u> , medium gray, I FA with irregular patches anhydrite, abundant medium sized smooth Brachiopods.  |        |              |                             |

SYMBOLS: C-CLAY OR SHALE (SAND 0-5%). I-CLAY OR SHALE WITH SAND STREAKS (SAND 5-25%). 2-CLAY OR SHALE AND SAND (SAND 25-60%). 3-SAND WITH SHALE STREAKS (SAND 60-90%). S-SAND (90-100%).

NOTE: SHOW FLUID CONTENT AS IN STANDARD LEGEND.

SHELL OIL COMPANY

WEEK ENDING \_\_\_\_\_

CORE FROM 5430 TO 5480

CORES EXAMINED BY Knight & Robinson

CORE RECORD

AREA OR FIELD Recapture Creek

COMPANY Shell Oil Company

LEASE AND WELL NO. 1

| NO. | FROM    | TO   | RECOVERED | FORMATIONAL, STRUCTURAL AND PROBABLE PRODUCTIVITY DESCRIPTION OF CORE   | SYMBOL | OBSERVED DIP | CORE INDICATIONS |
|-----|---------|------|-----------|---|--------|--------------|------------------|
|     |         |      |           |   |        |              | OIL-GAS          |
|     |         |      |           |   |        |              | CORE OR DITC     |
| 2   | Cont'd. |      |           |   |        |              |                  |
|     | 5476.5  | 5478 | 1.5'      | <u>Limestone</u> , medium gray brown, IVFA.   |        |              | See Description  |
|     | 5478    | 5480 | 2'        | <u>Dolomite</u> , medium gray, III FA, very argillaceous, calcareous in part.<br><br>Core catcher contained fragments of tan IVFA limestone with abundant small smooth Brachiopods and Tr B & C porosity; <u>spotty bright blue, yellow fluorescence.</u> |        |              |                  |

SYMBOLS: C-CLAY OR SHALE (SAND 0-5%). 1-CLAY OR SHALE WITH SAND STREAKS (SAND 5-25%). 2-CLAY OR SHALE AND SAND (SAND 25-60%). 3-SAND WITH SHALE STREAKS (SAND 60-90%). S-SAND (90-100%).  
NOTE: SHOW FLUID CONTENT AS IN STANDARD LEGEND.

SHELL OIL COMPANY

WEEK ENDING \_\_\_\_\_

CORE FROM 5480 TO 5528

CORES EXAMINED BY Knight & Robinson

CORE RECORD

AREA OR FIELD Recapture Creek

COMPANY Shell Oil Company

LEASE AND WELL NO. 1

| NO. | FROM   | TO     | RECOVERED | FORMATIONAL, STRUCTURAL AND PROBABLE PRODUCTIVITY DESCRIPTION OF CORE   | SYMBOL | OBSERVED DIP | CORE INDICATIONS |
|-----|--------|--------|-----------|---|--------|--------------|------------------|
|     |        |        |           |   |        |              | OIL-GAS          |
|     |        |        |           |   |        |              | CORE OR DITC     |
| 3   | 5480   | 5533   | 48'       |   |        |              | See Descriptio   |
|     | 5480   | 5483   | 3'        | <u>Limestone</u> , light gray, IVF B <sub>5</sub> + C <sub>5</sub> , appears brecciated with abundant Brachiopods; <u>oil stained, bright blue yellow spotty fluorescence and cut fluorescence.</u>   |        |              |                  |
|     | 5483   | 5485.5 | 2.5'      | <u>Limestone</u> , tan - brown, IVFA, pseudoolitic, brecciated in appearance - stylolitic at base.  |        |              |                  |
|     | 5485.5 | 5487   | 1.5'      | <u>Dolomite</u> , tan, III FA, very argillaceous, calcareous; very pale spotty yellow fluorescence, no cut fluorescence.  |        |              |                  |
|     | 5487   | 5488   | 1'        | <u>Limestone</u> , dark brown, III FA, fragmental, very argillaceous, fossiliferous.  |        |              |                  |
|     | 5488   | 5491   | 3'        | <u>Dolomite</u> , tan, III FA, very argillaceous, <u>good uniform oil stain; bright yellow uniform fluorescence and bright yellow cut fluorescence at 5490-91, III FA + B<sub>1</sub>.</u>  |        |              |                  |
|     | 5491   | 5497.5 | 6.5'      | <u>Limestone</u> , light gray, I-III VFA with very scattered B & C porosity, stylolitic with abundant very small Brachiopods appearing somewhat brecciated; <u>entire interval bleeding light green oil in irregular pattern, bright yellow spotty fluorescence and cut fluorescence.</u> |        |              |                  |
|     | 5497.5 | 5498   | .5'       | <u>Limestone</u> , light gray, I-III VF B <sub>1-5</sub> , <u>fluorescence and cut fluorescence as above.</u>   |        |              |                  |
|     | 5498   | 5499.5 | 1.5'      | <u>Dolomite</u> , tan, III FA, calcareous; <u>uniform brown oil stain, medium yellow uniform fluorescence and cut fluorescence.</u>   |        |              |                  |
|     | 5499.5 | 5504   | 4.5'      | <u>Limestone</u> , brown, I-III VF-FA with abundant medium sized smooth Brachiopods.  |        |              |                  |
|     | 5504   | 5510   | 6'        | <u>Limestone</u> , black - dark gray, IFA, argillaceous with scattered Brachiopods as above; fusulinids at 5504-05.   |        |              |                  |
|     | 5510   | 5528   | 18'       | <u>Shale</u> , black, carbonaceous, slightly calcareous and micaceous.  |        |              |                  |

SYMBOLS: C-CLAY OR SHALE (SAND 0-5%). 1-CLAY OR SHALE WITH SAND STREAKS (SAND 5-25%). 2-CLAY OR SHALE AND SAND (SAND 25-60%). 3-SAND WITH SHALE STREAKS (SAND 60-90%). S-SAND (90-100%).

NOTE: SHOW FLUID CONTENT AS IN STANDARD LEGEND.



## DITCH SAMPLES

Examined by Robinson 650 to 1110  
\_\_\_\_\_ to \_\_\_\_\_Well Recapture Creek Unit 1  
Field or Area Wildcat

| FROM | TO   | %   | SHOWS UNDERLINED   | SAMPLES <del>LAGGED</del> NOT LAGGED |
|------|------|-----|--|--------------------------------------|
| 650  | 680  | 100 | <u>Sandstone</u> , light reddish brown, very fine to coarse grained, quartzitic, subround, argillaceous, calcareous. |                                      |
| 680  | 720  | 100 | <u>Siltstone</u> , light to dark reddish brown, sandy, calcareous, shaly in part.                                    |                                      |
| 720  | 730  | 50  | <u>Siltstone</u> , as above.   |                                      |
|      |      | 50  | <u>Sandstone</u> , white, very fine to medium grained, subangular to subround, calcareous.                           |                                      |
| 730  | 750  | 60  | <u>Siltstone</u> , as above, mottled light green.  |                                      |
|      |      | 40  | <u>Sandstone</u> , as above.   |                                      |
| 750  | 800  | 90  | <u>Siltstone</u> , as above.   |                                      |
|      |      | 10  | <u>Sandstone</u> , as above.   |                                      |
| 800  | 830  | 70  | <u>Siltstone</u> , as above.   |                                      |
|      |      | 30  | <u>Sandstone</u> , as above.   |                                      |
| 830  | 840  | 40  | <u>Sandstone</u> , as above, in part unconsolidated.   |                                      |
|      |      | 10  | <u>Shale</u> , dark brown.   |                                      |
|      |      | 50  | <u>Siltstone</u> , as above.   |                                      |
| 840  | 860  | 80  | <u>Sandstone</u> , as above, argillaceous.   |                                      |
|      |      | 20  | <u>Siltstone</u> , as above, sandy.  |                                      |
| 860  | 940  | 100 | <u>Siltstone</u> , as above, floating sand grains (frosted?).  |                                      |
| 940  | 960  | 50  | <u>Sandstone</u> , as above, calcareous, very argillaceous.  |                                      |
|      |      | 50  | <u>Siltstone</u> , as above.   |                                      |
| 960  | 1020 | 100 | <u>Sandstone</u> , as above, largely unconsolidated (suspected entry of fresh water flow).                           |                                      |
| 1020 | 1030 | 100 | <u>Sandstone</u> , as above, more argillaceous.  |                                      |
| 1030 | 1050 | 80  | <u>Sandstone</u> , as above.   |                                      |
|      |      | 20  | <u>Shale</u> , light reddish brown, calcareous.  |                                      |
| 1050 | 1110 | 90  | <u>Sandstone</u> , light pink, very fine to medium grained, subangular, quartzitic, largely unconsolidated.          |                                      |
|      |      | 10  | <u>Shale</u> , as above.   |                                      |

## DITCH SAMPLES

Examined by Robinson 1110 to 2130  
\_\_\_\_\_ to \_\_\_\_\_Well Recapture Creek Unit 1  
Field or Area Wildcat

| FROM | TO   | %   | SHOWS UNDERLINED  | SAMPLES <del>Lagged</del> NOT LAGGED |
|------|------|-----|---|--------------------------------------|
| 1110 | 1140 | 100 | <u>Sandstone</u> , white, as above. Trace <u>Shale</u> , as above.  |                                      |
| 1140 | 1150 | 90  | <u>Sandstone</u> , as above.  |                                      |
|      |      | 10  | <u>Sandstone</u> , yellowish brown, very fine to fine grained, consolidated, calcareous, subangular to subround, quartzitic.                    |                                      |
| 1150 | 1160 | 80  | <u>Sandstone</u> , as above.  |                                      |
|      |      | 20  | <u>Sandstone</u> , yellowish brown, as above.   |                                      |
| 1160 | 1290 | 100 | <u>Sandstone</u> , yellowish brown, as above.   |                                      |
| 1290 | 1430 | 100 | <u>Sandstone</u> , as above, contaminated with cement ( $\pm 50\%$ ). (Surface casing plug.)  |                                      |
| 1430 | 1440 | 100 | <u>Siltstone</u> , light reddish brown, sandy in part, argillaceous, calcareous, contaminated with cement ( $\pm 10\%$ ).                       |                                      |
| 1440 | 1620 | 100 | <u>Siltstone</u> , as above, mottled light green, $\pm 10\%$ cement.  |                                      |
| 1620 | 1810 | 100 | <u>Siltstone</u> , as above, no cement.   |                                      |
| 1810 | 1850 | 100 | <u>Siltstone</u> , as above, rare lime pellets.   |                                      |
| 1850 | 1940 | 100 | <u>Siltstone</u> , as above, abundant lime pellets, light red, very shaly, very calcareous.   |                                      |
| 1940 | 1950 | 100 | <u>Siltstone</u> , as above, trace milky chert.   |                                      |
| 1950 | 2020 | 100 | <u>Siltstone</u> , as above, no chert.  |                                      |
| 2020 | 2040 |     | No Samples.   |                                      |
| 2040 | 2060 | 100 | <u>Siltstone</u> , as above.  |                                      |
| 2060 | 2090 | 90  | <u>Siltstone</u> , as above.  |                                      |
|      |      | 10  | <u>Sandstone</u> , white to light red, medium to coarse grained, subangular, quartzitic, argillaceous, calcareous, slightly friable, micaceous. |                                      |
| 2090 | 2120 | 100 | <u>Siltstone</u> , as above.  |                                      |
|      |      | Tr. | <u>Limestone</u> , pink, very argillaceous, I VFA.  |                                      |
| 2120 | 2130 | 90  | <u>Siltstone</u> , as above.  |                                      |
|      |      | 10  | <u>Limestone</u> , tan to light red, III VFA, very argillaceous.  |                                      |

DITCH SAMPLES

Examined by Robinson 2130 to 2720  
 \_\_\_\_\_ to \_\_\_\_\_

Well Recapture Creek Unit 1  
 Field or Area Wildcat

| FROM | TO   | %   | SHOWS UNDERLINED  | SAMPLES LAGGED | NOT LAGGED |
|------|------|-----|---|----------------|------------|
| 2130 | 2150 | 50  | <u>Limestone</u> , white to light gray, III-I VFA, argillaceous in part.  |                |            |
|      |      | 50  | <u>Shale</u> , light gray to purple, very calcareous.   |                |            |
| 2150 | 2210 | 100 | <u>Shale</u> , light red to purplish red, mottled green, calcareous, numerous lime pellets.   |                |            |
| 2210 | 2220 | 100 | <u>Sandstone</u> , white, fine to coarse grained, subangular-subround, quartzitic, numerous chert fragments, rare limestone fragments, slightly friable, slightly calcareous.                 |                |            |
| 2220 | 2240 | 100 | <u>Sandstone</u> , as above, numerous orange chert fragments.   |                |            |
| 2240 | 2290 | 100 | <u>Sandstone</u> , as above, medium to very coarse grained, numerous large chert fragments.   |                |            |
| 2290 | 2320 | 80  | <u>Sandstone</u> , as above.  |                |            |
|      |      | 20  | <u>Shale</u> , light bluish gray, micaceous, pyritic, soft, non-calcareous.   |                |            |
| 2320 | 2330 | 100 | <u>Shale</u> , variegated, very calcareous.   |                |            |
| 2330 | 2340 | 100 | <u>Shale</u> , dark brown, non-calcareous.  |                |            |
| 2340 | 2370 | 50  | <u>Shale</u> , variegated, as above.  |                |            |
|      |      | 50  | <u>Shale</u> , dark brown, as above.  |                |            |
| 2370 | 2420 | 100 | <u>Shale</u> , bluish gray, silty, chloritic, non-calcareous, carbonaceous in part.   |                |            |
| 2420 | 2510 | 100 | <u>Shale</u> , white to bluish gray, silty becoming sandy, non-calcareous, carbonaceous in part, pyritic in part.   |                |            |
| 2510 | 2530 | 100 | <u>Shale</u> , as above, trace <u>sandstone</u> , reddish brown to light brown, very fine-fine, subround, quartzitic, micaceous, argillaceous, slightly non-calcareous.                       |                |            |
| 2530 | 2550 | 90  | <u>Shale</u> , as above.  |                |            |
|      |      | 10  | <u>Sandstone</u> , as above, very fine to coarse grained, rare round, frosted grains, very poorly sorted.   |                |            |
| 2550 | 2560 |     | No Samples.   |                |            |
| 2560 | 2600 | 100 | <u>Sandstone</u> , light brown red, very fine to fine grained, subangular to subround, quartzitic, chert fragments, argillaceous, slightly dolomitic, micaceous, in part grades to siltstone. |                |            |
| 2600 | 2720 | 100 | <u>Siltstone</u> , light brown red, sandy, slightly dolomitic, micaceous.   |                |            |

## DITCH SAMPLES

Examined by Robinson 2720 to 3020  
\_\_\_\_\_ to \_\_\_\_\_Well Recapture Creek Unit 1  
Field or Area Wildcat

| FROM | TO   | %   | SHOWS UNDERLINED  | SAMPLES - <del>LAGGED</del> NOT LAGGED |
|------|------|-----|---|--|
| 2720 | 2750 | 100 | <u>Siltstone</u> , as above, with some lime pellets, calcareous; possibly rare limestone stringers, white to pink, I VFA, argillaceous. |  |
| 2750 | 2770 | 80  | <u>Siltstone</u> , as above.  |  |
|      |      | 20  | <u>Limestone</u> , white, gray, pink, yellow, I VFA, argillaceous.  |  |
| 2770 | 2780 | 40  | <u>Siltstone</u> , as above.  |  |
|      |      | 40  | <u>Shale</u> , bluish gray, micaceous, non-calcareous.  |  |
|      |      | 20  | <u>Limestone</u> , as above.  |  |
| 2780 | 2810 | 50  | <u>Siltstone</u> , as above.  |  |
|      |      | 50  | <u>Shale</u> , as above.  |  |
| 2810 | 2820 | 70  | <u>Siltstone</u> , as above.  |  |
|      |      | 30  | <u>Shale</u> , as above.  |  |
| 2820 | 2890 |     | No Samples.   |  |
| 2890 | 2920 | 30  | <u>Siltstone</u> , as above.  |  |
|      |      | 60  | <u>Shale</u> , as above, in part variegated.  |  |
|      |      | 10  | <u>Sandstone</u> , white to light gray, coarse grained, subround to subangular, quartzitic, very slightly calcareous.                   |  |
| 2920 | 2930 | 60  | <u>Siltstone</u> , as above.  |  |
|      |      | 30  | <u>Shale</u> , as above.  |  |
|      |      | 10  | <u>Sandstone</u> , as above.  |  |
| 2930 | 2960 | 60  | <u>Shale</u> , as above.  |  |
|      |      | 30  | <u>Siltstone</u> , as above.  |  |
|      |      | 10  | <u>Sandstone</u> , as above.  |  |
| 2960 | 3020 | 40  | <u>Siltstone</u> , as above.  |  |
|      |      | 60  | <u>Shale</u> , bluish gray to variegated.   |  |

DITCH SAMPLES

Examined by Robinson 3020 to 3480  
 \_\_\_\_\_ to \_\_\_\_\_

Well Recapture Creek 1  
 Field or Area San Juan County, Utah

| FROM | TO   | %   | SHOWS UNDERLINED  | SAMPLES <del>±A66E0</del> NOT LAGGED |
|------|------|-----|---|--------------------------------------|
| 3020 | 3110 | 55  | <u>Shale</u> , as above, largely variegated.  |                                      |
|      |      | 35  | <u>Siltstone</u> , as above.  |                                      |
|      |      | 10  | <u>Sandstone</u> , as above, with chert fragments, variegated colors.   |                                      |
| 3110 | 3130 | 75  | <u>Shale</u> , as above, largely variegated.  |                                      |
|      |      | 10  | <u>Siltstone</u> , as above.  |                                      |
|      |      | 10  | <u>Sandstone</u> , as above.  |                                      |
|      |      | 5   | <u>Limestone</u> , white to gray to pink, I/III VFA, very argillaceous.                                       |                                      |
| 3130 | 3170 | 85  | <u>Shale</u> , as above.  |                                      |
|      |      | 10  | <u>Siltstone</u> , as above.  |                                      |
|      |      | 5   | <u>Sandstone</u> , as above.  |                                      |
| 3170 | 3180 |     | No Samples.   |                                      |
| 3180 | 3200 | 85  | <u>Shale</u> , as above.  |                                      |
|      |      | 10  | <u>Siltstone</u> , as above.  |                                      |
|      |      | 5   | <u>Limestone</u> , as above.  |                                      |
| 3200 | 3310 | 90  | <u>Shale</u> , as above.  |                                      |
|      |      | 10  | <u>Siltstone</u> , as above, trace <u>anhydrite</u> inclusions.   |                                      |
|      |      |     | Trace <u>Sandstone</u> , as above.  |                                      |
| 3310 | 3320 | 100 | <u>Siltstone</u> , dark to light red brown, very argillaceous, calcareous, trace <u>anhydrite</u> inclusions. |                                      |
| 3320 | 3470 | 80  | <u>Siltstone</u> , as above, very shaly.  |                                      |
|      |      | 20  | <u>Shale</u> , largely variegated, as above.  |                                      |
|      |      |     | Trace <u>Sandstone</u> , as above.  |                                      |
| 3470 | 3480 | 50  | <u>Siltstone</u> , as above.  |                                      |
|      |      | 45  | <u>Shale</u> , as above.  |                                      |
|      |      | 5   | <u>Sandstone</u> , as above.  |                                      |

DITCH SAMPLES

Examined by Robinson 3480 to 3800  
 \_\_\_\_\_ to \_\_\_\_\_

Well Recapture Creek 1  
 Field or Area Sardinian County, Utah

| FROM | TO   | %   | SHOWS UNDERLINED   | SAMPLES LAGGED- NOT LAGGED |
|------|------|-----|--|----------------------------|
| 3480 | 3530 | 10  | <u>Sandstone</u> , light pink brown, mottled light green, very fine grained, very micaceous, very argillaceous, calcareous.      |                            |
|      |      | 45  | <u>Siltstone</u> , as above.   |                            |
|      |      | 45  | <u>Shale</u> , as above.   |                            |
| 3530 | 3540 | 50  | <u>Limestone</u> , dark gray, I VFA, argillaceous.   |                            |
|      |      | 25  | <u>Siltstone</u> , as above.   |                            |
|      |      | 25  | <u>Shale</u> , as above.   |                            |
| 3540 | 3550 | 80  | <u>Limestone</u> , as above.   |                            |
|      |      | 10  | <u>Siltstone</u> , as above.   |                            |
|      |      | 10  | <u>Shale</u> , as above.   |                            |
| 3550 | 3580 | 30  | <u>Limestone</u> , white, I-II VFA, platy in part, sandy in part, slightly dolomitic, rare fossils (?).                          |                            |
|      |      | 40  | <u>Shale</u> , as above.   |                            |
|      |      | 30  | <u>Siltstone</u> , as above.   |                            |
| 3580 | 3610 | 100 | <u>Siltstone</u> , light brown, anhydritic, calcareous, micaceous in part.   |                            |
| 3610 | 3620 |     | No Samples.  |                            |
| 3620 | 3630 | 30  | <u>Sandstone</u> , white, in part tinted green; very fine grained, in part <u>siltstone</u> , calcareous, micaceous (chlorite?). |                            |
|      |      | 70  | <u>Siltstone</u> , light brown, micaceous, sandy, in part shaly, calcareous.   |                            |
| 3630 | 3650 | 60  | <u>Siltstone</u> , as above, largely light brown red.  |                            |
|      |      | 40  | <u>Shale</u> , light brown red, in part varicolored, calcareous, anhydritic, lime pellets.                                       |                            |
| 3650 | 3710 | 80  | <u>Siltstone</u> , as above, very shaly.   |                            |
|      |      | 20  | <u>Shale</u> , as above.   |                            |
| 3710 | 3800 | 80  | <u>Shale</u> , varicolored, largely blue gray, yellow, green, pink, lime pellets, non-calcareous.                                |                            |
|      |      | 20  | <u>Siltstone</u> , as above. Trace <u>limestone</u> , pink, gray, brown, I VFA, argillaceous.                                    |                            |

DITCH SAMPLES

Examined by Robinson 3800 to 4200  
 \_\_\_\_\_ to \_\_\_\_\_

Well Recapture Creek 1  
 Field or Area. \_\_\_\_\_ Utah

| FROM | TO   | %  | SHOWS UNDERLINED   | SAMPLES TAGGED NOT LAGGED |
|------|------|----|--|---------------------------|
| 3800 | 3810 | 80 | <u>Limestone</u> , light green gray, I VFA, in part II, platy.   |                           |
|      |      | 20 | <u>Shale</u> , light brown red, as above.  |                           |
| 3810 | 3840 | 80 | <u>Shale</u> , varicolored, as above.  |                           |
|      |      | 20 | <u>Siltstone</u> , as above.   |                           |
| 3840 | 3850 | 80 | <u>Shale</u> , as above.   |                           |
|      |      | 20 | <u>Siltstone</u> , as above, trace <u>limestone</u> , as above.  |                           |
| 3850 | 3960 | 80 | <u>Shale</u> , as above.   |                           |
|      |      | 20 | <u>Siltstone</u> , as above. Occasional trace <u>sandstone</u> , white, coarse grained, quartzitic, very argillaceous. |                           |
| 3960 | 3970 | 50 | <u>Shale</u> , as above.   |                           |
|      |      | 30 | <u>Siltstone</u> , as above, some <u>anhydrite</u> inclusions.   |                           |
|      |      | 20 | <u>Sandstone</u> , light gray green, very fine to fine grained, in part silty, argillaceous, slightly dolomitic.       |                           |
| 3970 | 4025 | 80 | <u>Shale</u> , as above, largely blue gray.  |                           |
|      |      | 20 | <u>Siltstone</u> , as above. Trace <u>limestone</u> , multi-hue, I VFA, argillaceous.                                  |                           |
| 4025 | 4175 | 80 | <u>Shale</u> , as above, largely varicolored.  |                           |
|      |      | 20 | <u>Siltstone</u> , as above, in part light brown, very calcareous.   |                           |
|      |      |    | 4080-85 Trace <u>Shale</u> , black, very carbonaceous.   |                           |
|      |      |    | 4120-25 Trace <u>Shale</u> , as above, pyritic.  |                           |
|      |      |    | 4145-50 Trace <u>Chert</u> , clear to milky.   |                           |
|      |      |    | 4165-70 Trace <u>Limestone</u> , white to light gray, I VFA.   |                           |
| 4175 | 4195 | 60 | <u>Shale</u> , as above.   |                           |
|      |      | 40 | <u>Siltstone</u> , light brown, calcareous. Trace <u>limestone</u> , gray, I VFA.                                      |                           |
| 4195 | 4200 | 5  | <u>Limestone</u> , light green gray, I VFA.  |                           |
|      |      | 55 | <u>Shale</u> , as above.   |                           |
|      |      | 40 | <u>Siltstone</u> , as above.   |                           |

## DITCH SAMPLES

Examined by Robinson 4200 to 4265  
\_\_\_\_\_ to \_\_\_\_\_Well Recapture Creek 1  
Field or Area San Juan County, Utah

| FROM | TO   | %   | SHOWS UNDERLINED  | SAMPLES <del>LAGGED</del> NOT LAGGED |
|------|------|-----|---|--------------------------------------|
| 4200 | 4205 | 90  | <u>Siltstone</u> , as above.  |                                      |
|      |      | 10  | <u>Shale</u> , as above.  |                                      |
| 4205 | 4220 | 5   | <u>Limestone</u> , white to light gray, I VFA.  |                                      |
|      |      | 50  | <u>Siltstone</u> , as above.  |                                      |
|      |      | 45  | <u>Shale</u> , as above.  |                                      |
| 4220 | 4225 | 40  | <u>Limestone</u> , white, I VFA, sandy in part, in part light gray, III VFA.  |                                      |
|      |      | 30  | <u>Siltstone</u> , brown to light gray, calcareous.   |                                      |
|      |      | 30  | <u>Shale</u> , varicolored, calcareous to non-calcareous. Trace <u>sandstone</u> , light pink brown, very fine to coarse grained, quartzitic, very micaceous, calcareous. |                                      |
| 4225 | 4235 | 40  | <u>Limestone</u> , as above.  |                                      |
|      |      | 25  | <u>Siltstone</u> , as above.  |                                      |
|      |      | 30  | <u>Shale</u> , as above.  |                                      |
|      |      | 5   | <u>Sandstone</u> , as above.  |                                      |
| 4235 | 4240 | 40  | <u>Limestone</u> , as above, II/I-III VFA.  |                                      |
|      |      | 25  | <u>Siltstone</u> , as above.  |                                      |
|      |      | 25  | <u>Shale</u> , as above.  |                                      |
|      |      | 10  | <u>Sandstone</u> , as above.  |                                      |
| 4240 | 4245 | 45  | <u>Siltstone</u> , as above.  |                                      |
|      |      | 45  | <u>Shale</u> , as above.  |                                      |
|      |      | 10  | <u>Sandstone</u> , as above.  |                                      |
| 4245 | 4255 | 70  | <u>Limestone</u> , white, II/I/III VFA, as above.   |                                      |
|      |      | 30  | <u>Shale</u> , as above.  |                                      |
| 4255 | 4260 | 100 | <u>Shale</u> , as above.  |                                      |
| 4260 | 4265 | 10  | <u>Limestone</u> , white to light gray, I VFA, sandy in part.   |                                      |
|      |      | 90  | <u>Shale</u> , as above.  |                                      |

DITCH SAMPLES

Examined by Robinson 4265 to 4460  
 \_\_\_\_\_ to \_\_\_\_\_

Well Recapture Creek 1  
 Field or Area San Juan County, Utah

| FROM | TO   | %   | SHOWS UNDERLINED  | SAMPLES <del>LAGGED</del> NOT LAGGED |
|------|------|-----|---|--------------------------------------|
| 4265 | 4300 | 100 | <u>Shale</u> , as above.  |                                      |
| 4300 | 4305 | 30  | <u>Siltstone</u> , light brown, calcareous.   |                                      |
|      |      | 70  | <u>Shale</u> , as above.  |                                      |
| 4305 | 4315 | 10  | <u>Limestone</u> , white, I VFA, very sandy.  |                                      |
|      |      | 40  | <u>Siltstone</u> , as above.  |                                      |
|      |      | 50  | <u>Shale</u> , as above.  |                                      |
| 4315 | 4335 | 100 | <u>Shale</u> , light brown, brown red, gray, calcareous.  |                                      |
| 4335 | 4340 |     | No Samples.   |                                      |
| 4340 | 4355 | 100 | <u>Shale</u> , as above.  |                                      |
| 4355 | 4375 | 20  | <u>Siltstone</u> , white to light gray, grades to very fine grained <u>sandstone</u> , very calcareous. |                                      |
|      |      | 80  | <u>Shale</u> , as above.  |                                      |
| 4375 | 4390 | 95  | <u>Shale</u> , as above.  |                                      |
|      |      | 5   | <u>Siltstone</u> , as above, very sandy.  |                                      |
|      |      |     | 4380-85 Trace <u>Limestone</u> , light gray green, I VFA.   |                                      |
| 4390 | 4400 | 95  | <u>Shale</u> , as above.  |                                      |
|      |      | 5   | <u>Limestone</u> , white to light gray, I VFA, argillaceous.  |                                      |
|      |      |     | Trace <u>Siltstone</u> , as above.  |                                      |
| 4400 | 4425 | 100 | <u>Shale</u> , as above.  |                                      |
|      |      |     | 4405-10 5% <u>Limestone</u> , as above.   |                                      |
| 4425 | 4430 | 85  | <u>Shale</u> , as above.  |                                      |
|      |      | 10  | <u>Siltstone</u> , as above.  |                                      |
|      |      | 5   | <u>Limestone</u> , light green gray, I VFA, fossiliferous(?), pseudo-oolitic(?), slightly sandy.        |                                      |
| 4430 | 4445 | 90  | <u>Shale</u> , as above.  |                                      |
|      |      | 10  | <u>Limestone</u> , as above, less fossiliferous.  |                                      |
| 4445 | 4460 | 100 | <u>Limestone</u> , white to light gray, I/II VFA, rare fossils (?), rare chert.                         |                                      |

## DITCH SAMPLES

Examined by Robinson 4460 to 4580  
E.M. Wright    0

Well Recapture Creek #1  
 Field or Area San Juan County, Utah

| FROM | TO   | %   | SHOWS UNDERLINED  | SAMPLES <del>LAGGED</del> NOT LAGGED |
|------|------|-----|---|--------------------------------------|
| 4460 | 4470 | 80  | <u>Limestone</u> , white-dark gray, I III VFA, sandy in part.   |                                      |
|      |      | 20  | <u>Shale</u> , light brown-dark gray, calcareous.   |                                      |
| 4470 | 4485 | 100 | <u>Limestone</u> , predominately white-black, IVFA, very fossiliferous (largely unidentifiable)   |                                      |
| 4485 | 4495 | 80  | <u>Limestone</u> , white, I IIVFA, slightly fossiliferous, trace chert.   |                                      |
|      |      | 20  | <u>Shale</u> , as above.  |                                      |
| 4495 | 4525 | 100 | <u>Shale</u> , brown-green, calcareous-non calcareous, trace <u>siltstone</u> , light red-brown, trace <u>sandstone</u> , white-light gray, very fine-fine grain, calcareous. 4510, <u>shale</u> in part, purple. |                                      |
| 4525 | 4530 | 100 | <u>Shale</u> , variegated, calcareous, gray. Some <u>quartz</u> and <u>limestone</u> .  |                                      |
| 4530 | 4535 |     | No samples.   |                                      |
| 4535 | 4550 | 90  | <u>Siltstone</u> , gray, slightly calcareous to calcareous, micaceous, some grayish brown.  |                                      |
|      |      | 10  | <u>Limestone</u> , I VFA, light tan to light gray.  |                                      |
| 4550 | 4555 | 50  | <u>Sandstone</u> , very fine grain, calcareous, white to light gray, some gray green.   |                                      |
|      |      | 20  | <u>Shale</u> , variegated, as above.  |                                      |
|      |      | 30  | <u>Siltstone</u> , brown, calcareous, slightly sandy.   |                                      |
| 4555 | 4560 | 70  | <u>Sandstone</u> , as above.  |                                      |
|      |      | 15  | <u>Shale</u> , as above.  |                                      |
|      |      | 15  | <u>Siltstone</u> , as above.  |                                      |
| 4560 | 4565 | 50  | <u>Sandstone</u> , as above.  |                                      |
|      |      | 50  | <u>Siltstone</u> , as above.  |                                      |
| 4565 | 4575 | 50  | <u>Sandstone</u> , as above, also light gray very calcareous, micaceous.  |                                      |
|      |      | 50  | <u>Siltstone</u> , variegated, calcareous.  |                                      |
| 4575 | 4580 | 80  | <u>Sandstone</u> , white to light gray, calcareous to very calcareous, some micaceous.  |                                      |
|      |      | 20  | <u>Siltstone</u> , as above, occasional chert.  |                                      |

DITCH SAMPLES

Examined by E.M. Wright 4580 to 4700  
 \_\_\_\_\_ to \_\_\_\_\_

Well Recapture Creek #1  
 Field or Area San Juan County, Utah

| FROM | TO   | %  | SHOWS UNDERLINED  | SAMPLES <del>LAGGED</del> NOT LAGGED |
|------|------|----|---|--------------------------------------|
| 4580 | 4585 | 40 | <u>Sandstone</u> , white to light gray, calcareous to very calcareous, very fine grain.         |                                      |
|      |      | 40 | <u>Siltstone</u> , gray, slightly sandy, calcareous.  |                                      |
|      |      | 20 | <u>Limestone</u> , I VFA, medium gray, very sandy, very fine grain, some anhydrite, inclusions. |                                      |
| 4585 | 4590 | 50 | <u>Shale</u> , variegated.  |                                      |
|      |      | 50 | <u>Siltstone</u> , light red to gray, calcareous.   |                                      |
| 4590 | 4600 | 70 | <u>Siltstone</u> , medium brown, slightly sandy, calcareous.                                    |                                      |
|      |      | 25 | <u>Siltstone</u> , gray, calcareous, dolomitic?   |                                      |
|      |      | 5  | <u>Limestone</u> , I VFA, light brown.  |                                      |
|      |      |    | trace purple shale.   |                                      |
| 4600 | 4610 | 50 | <u>Siltstone</u> , brown, as above.   |                                      |
|      |      | 20 | <u>Siltstone</u> , gray, as above.  |                                      |
|      |      | 30 | <u>Shale</u> , gray and brown, slightly calcareous.   |                                      |
| 4610 | 4615 | 80 | <u>Siltstone</u> , brown, as above.   |                                      |
|      |      | 20 | <u>Shale</u> , purple, slightly calcareous.   |                                      |
| 4615 | 4670 | 50 | <u>Siltstone</u> , red-brown, slightly sandy.   |                                      |
|      |      | 50 | <u>Shale</u> , variegated.  |                                      |
| 4670 | 4675 | 75 | <u>Shale</u> , gray green, non calcareous.  |                                      |
|      |      | 25 | <u>Siltstone</u> , as above.  |                                      |
| 4675 | 4680 | 20 | <u>Sandstone</u> , medium gray, very fine grain, very slightly calcareous, dolomitic?           |                                      |
|      |      | 50 | <u>Shale</u> , gray-green, as above.  |                                      |
|      |      | 30 | <u>Siltstone</u> , as above.  |                                      |
| 4680 | 4685 | 50 | <u>Siltstone</u> , as above.  |                                      |
|      |      | 50 | <u>Shale</u> , variegated.  |                                      |
| 4685 | 4700 |    | No Samples.   |                                      |

## DITCH SAMPLES

Examined by E.M. Wright 4700 to 4815  
\_\_\_\_\_ to \_\_\_\_\_Well Recapture Creek #1  
Field or Area San Juan County, Utah

| FROM | TO   | %   | SHOWS UNDERLINED   | SAMPLES <del>LAGGED</del> NOT LAGGED |
|------|------|-----|--|--------------------------------------|
| 4700 | 4715 | 10  | <u>Chert</u> , white to smoky gray.  |                                      |
|      |      | 10  | <u>Sandstone</u> , very fine grain, white.                                       |                                      |
|      |      | 40  | <u>Siltstone</u> , as above.   |                                      |
|      |      | 40  | <u>Shale</u> , as above.   |                                      |
| 4715 | 4725 | 100 | <u>Shale</u> , variegated.   |                                      |
| 4725 | 4730 | 10  | <u>Sandstone</u> , fine grain, trace chert and medium-coarse grain sandstone.    |                                      |
|      |      | 50  | <u>Shale</u> , variegated.   |                                      |
|      |      | 40  | <u>Siltstone</u> , as above.   |                                      |
| 4730 | 4750 | 10  | <u>Sandstone</u> , white, very fine to fine grain.                               |                                      |
|      |      | 10  | <u>Limestone</u> , light tan, I VFA, fossiliferous.                              |                                      |
|      |      | 80  | <u>Shale</u> , variegated.   |                                      |
| 4750 | 4765 | 10  | <u>Limestone</u> , I VFA, white to tan, fossiliferous?                           |                                      |
|      |      | 90  | <u>Shale</u> , variegated.   |                                      |
| 4765 | 4770 | 70  | <u>Limestone</u> , I VFA, white to medium gray, very slightly sandy.             |                                      |
|      |      | 30  | <u>Shale</u> , variegated.   |                                      |
| 4770 | 4785 | 100 | <u>Limestone</u> , IVFA, medium gray, slightly sandy, free quartz and limestone. |                                      |
| 4785 | 4795 | 50  | <u>Limestone</u> , as above.   |                                      |
|      |      | 25  | <u>Siltstone</u> , red, brown, calcareous.                                       |                                      |
|      |      | 25  | <u>Shale</u> , green gray, some variegated.                                      |                                      |
| 4795 | 4800 | 100 | <u>Shale</u> , green gray, variegated, calcareous.                               |                                      |
| 4800 | 4810 | 80  | <u>Shale</u> , green gray, as above.   |                                      |
|      |      | 20  | <u>Sandstone</u> , white, very fine grain, slightly calcareous.                  |                                      |
| 4810 | 4815 | 70  | <u>Shale</u> , as above.   |                                      |
|      |      | 30  | <u>Sandstone</u> , as above.   |                                      |

## DITCH SAMPLES

Examined by E.M. Wright 4815 to 4965  
\_\_\_\_\_ to \_\_\_\_\_Well Recapture Creek #1  
Field or Area San Juan County, Utah

| FROM | TO   | %   | SHOWS UNDERLINED  | SAMPLES <del>INDEXED</del> NOT LAGGED |
|------|------|-----|---|---------------------------------------|
| 4815 | 4825 | 90  | <u>Shale</u> , as above.  |                                       |
|      |      | 10  | <u>Sandstone</u> , as above.  |                                       |
| 4825 | 4830 | 20  | <u>Shale</u> , gray green, as above.  |                                       |
|      |      | 80  | <u>Siltstone</u> , red brown, to gray, calcareous.                                |                                       |
| 4830 | 4840 | 30  | <u>Shale</u> , as above.  |                                       |
|      |      | 70  | <u>Siltstone</u> , as above.  |                                       |
| 4840 | 4845 | 70  | <u>Shale</u> , light green.   |                                       |
|      |      | 30  | <u>Limestone</u> , tan, I VFA.  |                                       |
| 4845 | 4850 | 100 | <u>Limestone</u> , as above.  |                                       |
| 4850 | 4855 | 100 | <u>Limestone</u> , gray, I-III VF-FA.   |                                       |
| 4855 | 4860 | 100 | <u>Limestone</u> , as above.  |                                       |
| 4860 | 4865 | 100 | <u>Siltstone</u> , tan, very calcareous, grades to <u>limestone</u> , very silty. |                                       |
| 4865 | 4875 | 100 | <u>Limestone</u> , tan IVF-III FA, silty.   |                                       |
| 4875 | 4890 | 100 | <u>Limestone</u> , light gray, III VF-FA.   |                                       |
| 4890 | 4905 | 100 | <u>Limestone</u> , tan IVFA.  |                                       |
| 4905 | 4910 | 100 | <u>Shale</u> , red and green.   |                                       |
| 4910 | 4915 | 100 | <u>Limestone</u> , medium gray, I VFA, argillaceous.                              |                                       |
| 4915 | 4920 | 80  | <u>Limestone</u> , as above.  |                                       |
|      |      | 20  | <u>Shale</u> , medium gray, calcareous.   |                                       |
| 4920 | 4935 | 100 | <u>Sandstone</u> , medium gray, very fine, angular, very calcareous.              |                                       |
| 4935 | 4940 | 100 | <u>Limestone</u> , tan I VFA with fragments white, clear chert.                   |                                       |
| 4940 | 4945 | 100 | <u>Limestone</u> , tan I-III VF-FA.   |                                       |
| 4945 | 4950 | 20  | <u>Limestone</u> , as above.  |                                       |
|      |      | 80  | <u>Limestone</u> , medium gray III-FA, slightly argillaceous.                     |                                       |
| 4950 | 4965 | 100 | <u>Limestone</u> , gray, III F-MA, as above.                                      |                                       |

DITCH SAMPLES

Examined by R. Knight 4965 to 5065  
Robinson to \_\_\_\_\_

Well Recapture Creek #1  
 Field or Area San Juan County, Utah

| FROM | TO   | %   | SHOWS UNDERLINED   | SAMPLES <del>LAGGED</del> NOT LAGGED |
|------|------|-----|--|--------------------------------------|
| 4965 | 4975 |     | No Samples.  |                                      |
| 4975 | 4985 | 100 | <u>Limestone</u> , as above, with few white chert fragments.   |                                      |
| 4985 | 4990 | 80  | <u>Limestone</u> , as above.   |                                      |
|      |      | 20  | <u>Shale</u> , black calcareous.   |                                      |
| 4990 | 4995 | 100 | <u>Limestone</u> , medium brown, I VFA with fragments dark brown chert.  |                                      |
| 4995 | 5000 | 100 | <u>Limestone</u> , tan - medium brown I VFA with chert, as above.  |                                      |
| 5000 | 5005 | 20  | <u>Shale</u> , as above.   |                                      |
|      |      | 80  | <u>Limestone</u> , light brown I-III VF-FA with fragments chert, as above.   |                                      |
| 5005 | 5010 | 100 | <u>Sandstone</u> , pale gray, very fine, argillaceous, well sorted, very calcareous.                                 |                                      |
| 5010 | 5015 | 100 | <u>Sandstone</u> , as above.   |                                      |
| 5015 | 5020 | 100 | <u>Limestone</u> , tan, I VFA.   |                                      |
| 5020 | 5025 | 100 | <u>Limestone</u> , as above, few unidentifiable fossils.   |                                      |
| 5025 | 5030 | 50  | <u>Limestone</u> , as above.   |                                      |
|      |      | 50  | <u>Limestone</u> , gray I-III VF-FA.   |                                      |
| 5030 | 5035 | 100 | <u>Siltstone</u> , light gray, very calcareous, grades to a silty <u>limestone</u> .                                 |                                      |
| 5035 | 5040 | 100 | <u>Siltstone</u> , as above.   |                                      |
| 5040 | 5045 | 100 | <u>Limestone</u> , white-tan, I VFA, fine-coarse, sandy (sub-rounded grains of light to dark gray quartz and chert). |                                      |
| 5045 | 5050 | 60  | <u>Limestone</u> , as above.   |                                      |
|      |      | 40  | <u>Shale</u> , light gray, calcareous.   |                                      |
| 5050 | 5055 | 70  | <u>Limestone</u> , as above.   |                                      |
|      |      | 30  | <u>Shale</u> , as above.   |                                      |
| 5055 | 5060 | 40  | <u>Shale</u> , medium gray, calcareous.  |                                      |
|      |      | 60  | <u>Limestone</u> , tan I VFA, sandy.   |                                      |
| 5060 | 5065 | 60  | <u>Shale</u> , as above.   |                                      |
|      |      | 40  | <u>Limestone</u> , as above.   |                                      |

DITCH SAMPLES

Examined by R. Knight 5065 to 5140  
 \_\_\_\_\_ to \_\_\_\_\_

Well Recapture Creek #1  
 Field or Area San Juan County, Utah

| FROM | TO   | %   | SHOWS UNDERLINED   | SAMPLES <del>LAGGED</del> NOT LAGGED |
|------|------|-----|--|--------------------------------------|
| 5065 | 5070 | 70  | <u>Shale</u> , as above.   |                                      |
|      |      | 30  | <u>Limestone</u> , tan I VFA with few fragments white chert.                     |                                      |
| 5070 | 5075 | 80  | <u>Shale</u> , medium gray, calcareous, silty.                                   |                                      |
|      |      | 20  | <u>Limestone</u> , I VFA, tan, sandy.  |                                      |
| 5075 | 5080 | 50  | <u>Shale</u> , as above.   |                                      |
|      |      | 50  | <u>Limestone</u> , tan, I VFA.   |                                      |
| 5080 | 5085 | 30  | <u>Shale</u> , as above.   |                                      |
|      |      | 30  | <u>Siltstone</u> , gray, calcareous.   |                                      |
|      |      | 40  | <u>Limestone</u> , as above.   |                                      |
| 5085 | 5095 | 70  | <u>Shale</u> , as above.   |                                      |
|      |      | 30  | <u>Limestone</u> , as above.   |                                      |
| 5095 | 5100 | 50  | <u>Shale</u> , as above.   |                                      |
|      |      | 50  | <u>Limestone</u> , light brown I VFA, sandy.                                     |                                      |
| 5100 | 5105 | 20  | <u>Shale</u> , black.  |                                      |
|      |      | 30  | <u>Limestone</u> , as above.   |                                      |
|      |      | 50  | <u>Siltstone</u> , gray, very calcareous.  |                                      |
| 5105 | 5115 | 30  | <u>Shale</u> , medium gray, calcareous.  |                                      |
|      |      | 70  | <u>Limestone</u> , tan, I-III VF-FA with fragments white chert.                  |                                      |
| 5115 | 5120 | 20  | <u>Shale</u> , as above.   |                                      |
|      |      | 80  | <u>Limestone</u> , tan, I-III VF-FA with fragments white and light orange chert. |                                      |
| 5120 | 5125 | 30  | <u>Shale</u> , as above.   |                                      |
|      |      | 70  | <u>Limestone</u> , tan, I-III VF-MA.   |                                      |
| 5125 | 5130 | 100 | <u>Limestone</u> , tan, I VFA, sandy with rare tan chert fragments.              |                                      |
| 5130 | 5140 | 45  | <u>Shale</u> , medium gray, calcareous.  |                                      |
|      |      | 55  | <u>Limestone</u> , tan, III FA.  |                                      |

DITCH SAMPLES

Examined by R. L. Knight 5110 5225  
 \_\_\_\_\_ to \_\_\_\_\_

Well Recapture Creek Unit 1  
 Field or Area San Juan County, Utah

| FROM | TO   | %   | SHOWS UNDERLINED   | SAMPLES <del>LAGGED</del> NOT LAGGED |
|------|------|-----|--|--------------------------------------|
| 5140 | 5145 | 90  | <u>Limestone</u> , medium brown IVFA.  |                                      |
|      |      | 10  | <u>Chert</u> , brown.  |                                      |
| 5145 | 5150 | 40  | <u>Shale</u> , medium gray, calcareous.  |                                      |
|      |      | 60  | <u>Limestone</u> , light brown III FA chert fragments as above.                |                                      |
| 5150 | 5155 | 30  | <u>Shale</u> , as above.   |                                      |
|      |      | 70  | <u>Limestone</u> with chert as above.  |                                      |
| 5155 | 5160 | 30  | <u>Shale</u> , as above.   |                                      |
|      |      | 70  | <u>Limestone</u> with chert as above.  |                                      |
| 5160 | 5165 | 100 | <u>Limestone</u> , tan, I-III VF-FA with abundant fragments tan - white chert. |                                      |
| 5165 | 5170 | 100 | <u>Limestone</u> , as above, no chert.   |                                      |
| 5170 | 5175 | 100 | <u>Limestone</u> , as above, sandy.  |                                      |
| 5175 | 5180 | 100 | <u>Limestone</u> , light brown III FA.   |                                      |
| 5180 | 5185 | 100 | <u>Limestone</u> , as above.   |                                      |
| 5185 | 5190 | 100 | <u>Limestone</u> , light gray, I-III VF-FA with fragments white chert.         |                                      |
| 5190 | 5195 | 100 | <u>Limestone</u> , light brown, III FA with chert as above.                    |                                      |
| 5195 | 5200 | 100 | <u>Limestone</u> , light brown, III F-MA, dolomitic.                           |                                      |
| 5200 | 5205 | 100 | <u>Shale</u> , medium gray, calcareous.  |                                      |
| 5205 | 5210 | 100 | <u>Shale</u> , as above.   |                                      |
| 5210 | 5215 | 30  | <u>Shale</u> , medium gray, calcareous.  |                                      |
|      |      | 70  | <u>Limestone</u> , light brown, IVFA.  |                                      |
| 5215 | 5220 | 30  | <u>Shale</u> , medium gray, calcareous.  |                                      |
|      |      | 70  | <u>Limestone</u> , light brown, IVFA.  |                                      |
| 5220 | 5225 | 20  | <u>Shale</u> , as above.   |                                      |
|      |      | 30  | <u>Sandstone</u> , white, very fine, calcareous.                               |                                      |
|      |      | 50  | <u>Limestone</u> , tan IVFA.   |                                      |

## DITCH SAMPLES

Examined by R. Knight 5225 to 5335  
\_\_\_\_\_ to \_\_\_\_\_Well Recapture Creek Unit 1  
Field or Area San Juan County, Utah

| FROM | TO   | %   | SHOWS UNDERLINED  | SAMPLES <del>LAGGED</del> NOT LAGGED |
|------|------|-----|---|--------------------------------------|
| 5225 | 5230 | 50  | <u>Sandstone</u> , as above.  |                                      |
|      |      | 50  | <u>Limestone</u> , as above.  |                                      |
| 5230 | 5235 | 100 | <u>Sandstone</u> , light gray - tan, very fine, angular, very calcareous.   |                                      |
| 5235 | 5240 | 50  | <u>Sandstone</u> , as above.  |                                      |
|      |      | 50  | <u>Limestone</u> , tan, IVFA with fragments white chert.  |                                      |
| 5240 | 5245 | 100 | <u>Limestone</u> , tan, I-III VF-FA.  |                                      |
| 5245 | 5250 | 100 | <u>Limestone</u> , as above.  |                                      |
| 5250 | 5255 | 100 | <u>Limestone</u> , as above.  |                                      |
| 5255 | 5260 | 100 | <u>Limestone</u> , as above with abundant fragments gray chert, fusulinids.   |                                      |
| 5260 | 5265 | 90  | <u>Limestone</u> , as above.  |                                      |
|      |      | 10  | <u>Chert</u> , as above.  |                                      |
| 5265 | 5270 | 100 | <u>Limestone</u> with chert as above.   |                                      |
| 5270 | 5275 | 100 | <u>Limestone</u> with chert as above.   |                                      |
| 5275 | 5280 | 100 | <u>Limestone</u> , light brown, IVFA.   |                                      |
| 5280 | 5285 | 100 | <u>Limestone</u> , as above.  |                                      |
| 5285 | 5290 | 100 | <u>Limestone</u> , dark gray - black, I-III FA, very argillaceous; fusulinids.  |                                      |
| 5290 | 5295 | 20  | <u>Shale</u> , black.   |                                      |
|      |      | 80  | <u>Limestone</u> , as above; fusulinids.  |                                      |
| 5295 | 5300 | 100 | <u>Limestone</u> , as above.  |                                      |
| 5300 | 5305 | 100 | <u>Limestone</u> , dark gray brown, III FA, argillaceous with fragments black chert.  |                                      |
| 5305 | 5320 | 100 | <u>Limestone</u> , as above with chert.   |                                      |
| 5320 | 5325 | 100 | <u>Limestone</u> , medium brown, III-I VF-FA.   |                                      |
| 5325 | 5330 | 100 | <u>Limestone</u> , tan, I-III VF-FA.  |                                      |
| 5330 | 5335 | 100 | <u>Limestone</u> , tan, mottled gray in part, I-III VF-FA, plus B <sub>Tr</sub> ; <u>10% medium blue fluorescence, pale cut fluorescence.</u> |                                      |

DITCH SAMPLES

Examined by R. Knight 5335 to 5372  
 \_\_\_\_\_ to \_\_\_\_\_

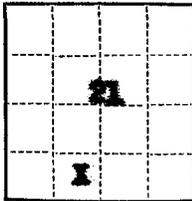
Well Recapture Creek Unit 1  
 Field or Area San Juan County, Utah

| FROM | TO   | %   | SHOWS UNDERLINED   | SAMPLES <del>LAGGED</del> NOT LAGGED |
|------|------|-----|--|--------------------------------------|
| 5335 | 5340 | 100 | <u>Limestone, tan III IVFA, 10% fluorescence and cut fluorescence as above.</u>  |                                      |
| 5340 | 5345 | 100 | <u>Limestone, as above with B<sub>Tr</sub>, 10% fluorescence and cut fluorescence as above.</u>                                    |                                      |
| 5345 | 5350 | 100 | <u>Limestone, tan, I-III VF-FA, 5-10% fluorescence and cut fluorescence as above.</u>  |                                      |
| 5350 | 5355 | 60  | <u>Limestone, light gray, III FA.</u>  |                                      |
|      |      | 40  | <u>Dolomite, tan, III FA; 20% fluorescence and cut fluorescence as above.</u>  |                                      |
| 5355 | 5360 | 100 | <u>Limestone, as above; 30% fluorescence and cut fluorescence as above.</u>  |                                      |
| 5360 | 5365 | 100 | <u>Dolomite, light brown III FA + C<sub>Tr</sub>; 30% bright blue yellow uniform fluorescence, strong-medium cut fluorescence.</u> |                                      |
| 5365 | 5370 | 100 | <u>Dolomite, as above, III FA + B<sub>5</sub>; 40% fluorescence and cut fluorescence as above.</u>                                 |                                      |
| 5370 | 5372 | 100 | <u>Dolomite, as above, III FA + B<sub>1</sub> + C<sub>Tr</sub>.</u>  |                                      |
|      |      |     | <u>Footage correction 8' so next samples will start at 5380.</u>   |                                      |

(SUBMIT IN TRIPLICATE)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

Land Office Salt Lake City  
Lease No. U 01890  
Unit Recepture Creek



SUNDRY NOTICES AND REPORTS ON WELLS

|  |                                     |  |  |
|--|-------------------------------------|--|--|
| NOTICE OF INTENTION TO DRILL                   | <input checked="" type="checkbox"/> | SUBSEQUENT REPORT OF WATER SHUT-OFF        |  |
| NOTICE OF INTENTION TO CHANGE PLANS            |                                     | SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING |  |
| NOTICE OF INTENTION TO TEST WATER SHUT-OFF     |                                     | SUBSEQUENT REPORT OF ALTERING CASING       |  |
| NOTICE OF INTENTION TO RE-DRILL OR REPAIR WELL |                                     | SUBSEQUENT REPORT OF RE-DRILLING OR REPAIR |  |
| NOTICE OF INTENTION TO SHOOT OR ACIDIZE        |                                     | SUBSEQUENT REPORT OF ABANDONMENT           |  |
| NOTICE OF INTENTION TO PULL OR ALTER CASING    |                                     | SUPPLEMENTARY WELL HISTORY                 |  |
| NOTICE OF INTENTION TO ABANDON WELL            |                                     |  |  |

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

July 12, 1956

Recepture Creek

Well No. Unit 1 is located 660 ft. from [S] line and 1980 ft. from [W] line of sec. 21

SE SW 21

(1/4 Sec. and Sec. No.)

408

(Twp.)

23E

(Range)

S.L.B.M.

(Meridian)

Wasatch

(Field)

San Juan

(County or Subdivision)

Utah

(State or Territory)

The elevation of the ~~well~~ 4488.15 ft. (Approx. grd)

DETAILS OF WORK

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work)

Exploratory Well

1. Drill 12 1/4" hole to 1100'+
2. Run and cement 9 5/8" casing at 1100'+ with sufficient cement to reach surface.
3. Drill 7 7/8" hole to 7100'+.
4. If commercial production is obtained a supplementary completion notice will be filed, otherwise, plug and abandon in accordance with U.S.G.S. regulations.

Surface formation is The Recepture.

I understand that this plan of work must receive approval in writing by the Geological Survey before operations may be commenced.

Company Shell Oil Company

Address 33 Richards Street

Salt Lake City, Utah

By

B.W. Shepard

Title

B.W. Shepard  
Exploitation Engineer

July 16, 1956

Shell Oil Company  
33 Richards Street  
Salt Lake City, Utah

Gentlemen:

This is to acknowledge receipt of your notice of intention to drill Well No. Recapture Creek Unit 1, which is to be located 660 feet from the south line and 1980 feet from the west line of Section 21, Township 49 South, Range 23 East, S1E1M, San Juan County, Utah.

Please be advised that insofar as this office is concerned, approval to drill said well in said location is hereby granted.

If in the future you should desire to take advantage of the exception provided for in Rule A-3 of our rules and regulations, please send this office a copy of the Recapture Creek Unit Agreement.

Yours very truly,

OLEON B. FEICHT  
SECRETARY

CBF:cc

cc: Phil McGrath, Dist. Eng.  
USGS  
Farmington,  
New Mexico



Recapture Creek Unit

**DRILLING REPORT**

FOR PERIOD ENDING

Section 21

(FIELD)  
San Juan, Utah  
(COUNTY)

August 7, 1956

(SECTION OR LEASE)  
T40S, R23E, SLBM  
(TOWNSHIP OR RANCHO)

| DAY<br>1956 | DEPTHS |      | REMARKS   |
|-------------|--------|------|---|
|             | FROM   | TO   |   |
|             |        |      | <p><u>LOCATION:</u> 660' N. and 1980' E. of SW Corner, Section 21, T. 40 S., R. 23 E., S.L.B. &amp; M., San Juan County, Utah.</p> <p><u>ELEVATION:</u> D.F. 4504.7'<br/>MAT 4492.5'<br/>K.B. 4505.3'</p>   |
| 7-31        | 0      | 30   | Spudded 5:45 P.M. Drilled 30' in 2 hours, continued to rig up. Surface hole 11".  |
| 8-1         | 30     | -    | Rigging up.   |
| 8-2         | 30     | -    | Rigging up.   |
| 8-3         | 30     | -    | 8 hours rigging up. Drilling rat hole, leveling derrick.  |
| 8-4         | 30     | 91   | <u>Drilled 61'</u> . Drilled rat hole, drilled mouse hole, 5 hours drilling. Bentonite base mud.  |
| 8-5         | 91     | 687  | <u>Drilled 596'</u> . Repaired shale shaker (1 hour), jetted pits.  |
| 8-6         | 687    | 1290 | <u>Drilled 603'</u> . Encountered strong fresh water flow. Drilling with water.   |
| 8-7         | 1290   | -    | Mixing mud (8 hours). Ran and cemented 8 5/8" casing @ 1244' with 400 sacks construction cement, 15 #/gal. slurry, 1 top plug, bumped with 1250 lbs/s.i. No returns. Halliburton Cementers. Recemented casing from surface with 25 sacks construction cement. |

| CONDITION AT BEGINNING OF PERIOD      |      |    |             |           |
|---------------------------------------|------|----|-------------|-----------|
| HOLE                                  |      |    | CASING SIZE | DEPTH SET |
| SIZE                                  | FROM | TO |             |           |
|                                       |      |    |             |           |
| <p>DRILL PIPE SIZES <u>4 1/2"</u></p> |      |    |             |           |

B. B. Robinson

SIGNED

Recapture Creek Unit

(FIELD)

San Juan, Utah

(COUNTY)

## DRILLING REPORT

FOR PERIOD ENDING

August 13, 1956

Section 21

(SECTION OR LEASE)

T40S, R23E, S18M

(TOWNSHIP OR RANCHO)

| DAY<br>1956 | DEPTHS |      | REMARKS  |
|-------------|--------|------|--|
|             | FROM   | TO   |  |
| 8-8         | 1290   | -    | Standing cemented. Nipped up.  |
| 8-9         | 1290   | 1641 | Drilled 351'. 2 hours drilling cement. Mixed mud (5 hours). Pressured up on casing - 700 lbs. for 15 minutes - O.K. Treated mud with caustic soda, quebracho, soda ash, and gel.   |
| 8-10        | 1641   | 1930 | Drilled 289'. Repaired screen on shale shaker (1 1/2 hours). Repaired chain guard. Treated mud with caustic soda, quebracho, and soda ash. Encountering slight fresh water flow.   |
| 8-11        | 1930   | 2169 | Drilled 239'. Repaired air "jammer", jetted pits. Treated mud with quebracho, caustic soda, soda ash, and gel.   |
| 8-12        | 2169   | 2439 | Drilled 270'. 1 hour washing to bottom, repairing air "jammer". Treated mud with quebracho and caustic soda.   |
| 8-13        | 2439   | 2665 | Drilled 226'. 1/2 hour washing to bottom, repairing air "jammer" and light lines. Treated mud with caustic soda, quebracho, soda ash, alkaton, magcophos, magcobar, and magcogel to kill water flow. Salinity (7200 ppm (t) chloride) and calcium content (CaCo <sub>3</sub> 300 ppm (t)). |

Checked BOP daily.

Mud Summary

Wt. 9.1-10.4 #/gal.  
 Vis. 38-65 sec.  
 W.L. 10.6-12.4 cc.  
 F.C. 2/32 in.  
 pH 12.5 (cement)-8.5  
 Sal. 650-7200 ppm (t)  
 Sand 1-2%

## CONDITION AT BEGINNING OF PERIOD

| HOLE                    |      |      | CASING SIZE | DEPTH SET |
|-------------------------|------|------|-------------|-----------|
| SIZE                    | FROM | TO   |             |           |
| 11"                     | 0    | 1290 | 8 5/8"      | 1244'     |
| DRILL PIPE SIZES 4 1/2" |      |      |             |           |

B. B. Robinson

SIGNED

Recapture Creek Unit

**DRILLING REPORT**

WELL NO. 1

(FIELD)

FOR PERIOD ENDING

21

San Juan, New Mexico

August 20, 1956

(SECTION OR LEASE)

(COUNTY)

T. 40 S., R. 23 E.

(TOWNSHIP OR RANCHO)

| DAY  | DEPTHS |      | REMARKS   |
|------|--------|------|---|
|      | FROM   | TO   |   |
| 56   |        |      |   |
| 8-14 | 2665   | 2838 | Drilled 173'. 1-1/4 hours wash to bottom. Repaired #1 pump. Treated mud with quebracho, and caustic soda.   |
| 8-15 | 2838   | 2985 | Drilled 147'. 1/2 hour wash to bottom, jetted pits, repaired motors (1 hour). Treated mud with caustic soda, quebracho, magcophos, alkatan, and gel.  |
| 8-16 | 2985   | 3127 | Drilled 142'. Worked on motors (1-3/4 hours). Treated mud caustic soda, alkatan, and quebracho.   |
| 8-17 | 3127   | 3289 | Drilled 162'. Jetted pits. Treated mud with caustic soda, quebracho, alkatan, and gel.  |
| 8-18 | 3289   | 3408 | Drilled 119'. Repaired pump #1. Treated mud with alkatan, and soda ash.   |
| 8-19 | 3408   | 3537 | Drilled 129'. 3-1/2 hours air line repair. Treated mud with quebracho, alkatan, and soda ash.   |
| 8-20 | 3537   | 3651 | Drilled 114'. Jetted pits (1/2 hour). Converted to gypsum base mud -- 5-1/2 hours, 1 hour repair airlines. Treated mud with gypsum, mylogel, and preservative.  |
|      |        |      | Checked BOP daily.  |
|      |        |      | <p style="text-align: center;"><u>Mud Summary</u></p> <p>Wt. 10.3#/gal.<br/>           Vis. 42 Sec.<br/>           W.L. 9.5 cc<br/>           F.C. 3/32"<br/>           Salinity 7000 ppm (t)<br/>           PH 7.5</p> |

CONDITION AT BEGINNING OF PERIOD

| HOLE             |      |      | CASING SIZE | DEPTH SET |
|------------------|------|------|-------------|-----------|
| SIZE             | FROM | TO   |             |           |
| 11               | 0    | 1290 | 8-5/8       | 1244      |
| 7-7/8            | 1290 | 2665 |             |           |
| DRILL PIPE SIZES |      |      | 4-1/2       |           |

B. B. Robinson

SIGNED

**DRILLING REPORT**  
FOR PERIOD ENDING

Recapture Creek Unit  
(FIELD)  
San Juan, New Mexico  
(COUNTY)

August 26, 1956

21  
(SECTION OR LEASE)  
T. 40 S., R. 23 E.  
(TOWNSHIP OR RANCHO)

| DAY<br>56 | DEPTHS |      | REMARKS   |
|-----------|--------|------|---|
|           | FROM   | TO   |   |
| 8-21      | 3651   | 3816 | <u>Drilled 165'</u> . Jetted pits (1/2 hr.), 2 hour repair and change water pump on #1 motor. Treated mud with gypsum, preservation, mylogel, and magcobar. |
| 8-22      | 3816   | 3936 | <u>Drilled 120'</u> . Repair #1 motor (1/2 hr), jetted pits and worked on air jammer (1 hr). Mud treated with preservative, gypsum, mylogel, and magcobar.  |
| 8-23      | 3936   | 4039 | <u>Drilled 103'</u> . Jetted pits and changed oil in water pump motor (1 hr). Treated with preservative, gypsum, and mylogel.                               |
| 8-24      | 4039   | 4168 | <u>Drilled 129'</u> . Jetted pits (1/2 hr). Treated mud with gypsum, salt gel, and preservative.  |
| 8-25      | 4168   | 4288 | <u>Drilled 120'</u> . Treated mud with mylogel, preservative, and gypsum.   |
| 8-26      | 4288   | 4400 | <u>Drilled 112'</u> . Jetted pits and repaired air jammer line (3/4 hr). Treated mud with gypsum, preservative, salt gel, and high yield clay.              |
|           |        |      | Checked BOP daily.  |

Mud Summary

Wt. 10.2#/gal  
Vis. 43 Sec.  
W.L. 15.6, cc  
F.C. 2/32  
Salinity. 6500 ppm (t)  
PH 7.5

| CONDITION AT BEGINNING OF PERIOD |      |      |             |           |
|----------------------------------|------|------|-------------|-----------|
| HOLE                             |      |      | CASING SIZE | DEPTH SET |
| SIZE                             | FROM | TO   |             |           |
| 11                               | 0    | 1290 | 8-5/8       | 1244      |
| 7-7/8                            | 1290 | 3651 |             |           |
| DRILL PIPE SIZES 4-1/2           |      |      |             |           |

B. B. Brick

SIGNED

Recapture Creek Unit

(FIELD)

San Juan, New Mexico

(COUNTY)

## DRILLING REPORT

FOR PERIOD ENDING

September 5, 1956

WELL NO. \_\_\_\_\_

21

(SECTION OR LEASE)

T. 40 S., R. 23 E.

(TOWNSHIP OR RANCHO)

| DAY  | DEPTHS |      | REMARKS  |
|------|--------|------|--|
|      | FROM   | TO   |  |
| 56   |        |      |  |
| 8-27 | 4400   | 4491 | Drilled 91'. Treated mud with preservative, gypsum, salt gel, and mylogel.   |
| 8-28 | 4491   | 4532 | Drilled 41'. Jetted pits (1-3/4 hrs), 8-1/2 hrs. working on #2 motor. Treated mud with preservative, gypsum, and mylogel. Rotary logging Unit began operation. |
| 8-29 | 4532   |      | 8 hours waiting on #2 motor, 8 hours pulling motor down, 8 hours cleaning rig.   |
| 8-30 | 4532   |      | 16 hours cleaning rig and trimming drilling line.  |
| 8-31 | 4532   |      | Dry watching -- hole filled, rams shut.  |
| 9-1  | 4532   |      | 8 hours repairing drilling line and gas line. 16 hours dry watching.   |
| 9-2  | 4532   |      | Dry watching.  |
| 9-4  | 4532   |      | Dry watching.  |
| 9-5  | 4532   |      | 20 hours cleaning rig, 4 hours installing motor.   |
|      |        |      | Checked BOP daily.   |
|      |        |      | <u>Mud Summary</u>   |
|      |        |      | Wt. 10.2#/gal  |
|      |        |      | Vis 43 Sec.  |
|      |        |      | WL 15.6 cc   |
|      |        |      | F.C. 2/32"   |
|      |        |      | Salinity + 6500 ppm (t)  |
|      |        |      | PH 7.5   |

## CONDITION AT BEGINNING OF PERIOD

| HOLE             |      |      | CASING SIZE | DEPTH SET |
|------------------|------|------|-------------|-----------|
| SIZE             | FROM | TO   |             |           |
| 11               | 0    | 1290 | 8-5/8       | 1244      |
| 7-7/8            | 1290 | 4400 |             |           |
| DRILL PIPE SIZES |      |      |             |           |
| 4-1/2            |      |      |             |           |

B. B. Robinson

SIGNED

Recapture Creek Unit

## DRILLING REPORT

FOR PERIOD ENDING

21(FIELD)  
San Juan County, New Mexico  
(COUNTY)

September 11, 1956

(SECTION OR LEASE)  
T. 40 S., R. 23 E.  
(TOWNSHIP OR RANCHO)

| DAY  | DEPTHS |      | REMARKS  |
|------|--------|------|--|
|      | FROM   | TO   |  |
| 9-6  | 4532   | 4603 | Drilled 71'. 4 hours cleaning rig and breaking in #2 motor, 2-1/2 hours conditioning mud, 1-1/2 hours repairing #1 pump. Treated mud with zeogel salt gel, preservative, gypsum, mylogel, magcobar, and magogel. |
| 9-7  | 4603   | 4700 | Drilled 97'. 1/4 hour repair airlines. Treated mud as above.   |
| 9-8  | 4700   | 4790 | Drilled 90'. 1-1/2 hours changing low clutch air control. Treated mud with myloge, preservative, magcobar, salt gel, and gypsum.   |
| 9-9  | 4790   | 4880 | Drilled 90'. Jetted pits and repaired airline (1/2 hr). Treated mud with mylogel, magcobar, gypsum, and preservative.  |
| 9-10 | 4880   | 4951 | Drilled 71'. Repaired air jammer (1 hr.) Treated mud as above.   |
| 9-11 | 4951   | 5041 | Drilled 90'. Repair air jammer and replace broken belt (1-3/4 hr), treated mud as above and with salt gel.   |
|      |        |      | Checked BOPE daily.  |
|      |        |      | <u>Mid Summary</u>   |
|      |        |      | Wt. 10.4#/gal.   |
|      |        |      | Vis. 42 sec.   |
|      |        |      | WL 7.6 cc  |
|      |        |      | FC 2/32"   |
|      |        |      | Salinity 8500-16,000 ppm (t)   |
|      |        |      | PH 7.5   |

## CONDITION AT BEGINNING OF PERIOD

| HOLE             |      |      | CASING SIZE | DEPTH SET |
|------------------|------|------|-------------|-----------|
| SIZE             | FROM | TO   |             |           |
| 11               | 0    | 1290 | 8-5/8       | 12 1/4    |
| 7 7/8            | 1290 | 4532 |             |           |
| DRILL PIPE SIZES |      |      | 4-1/2       |           |

B. B. Robinson

SIGNED

**DRILLING REPORT**  
FOR PERIOD ENDING

21

Recapture Creek Unit  
(FIELD)  
San Juan County, New Mexico  
(COUNTY)

September 16, 1956

(SECTION OR LEASE)  
T. 40 S., R. 23 E.  
(TOWNSHIP OR RANCHO)

| DAY  | DEPTHS |      | REMARKS   |
|------|--------|------|---|
|      | FROM   | TO   |   |
| 9-12 | 5041   | 5120 | Drilled 79'. Repaired air jammer and airline, treated mud with mylogel, gypsum, and preservative.   |
| 9-13 | 5120   | 5178 | Drilled 58'. Repair pump #1 (1-3/4 hrs), jetted pits (1/4 hr), repaired #1 motor (1 hr). Treated mud with mylogel, preservative, gypsum, and magco-bar.   |
| 9-14 | 5178   | 5263 | Drilled 85'. Treated mud as above.  |
| 9-15 | 5263   | 5312 | Drilled 49'. Repair line guide. Treated mud as above.   |
| 9-16 | 5312   | 5373 | Drilled 61'. Repaired mud pump and circulated for DST (2-1/2 hrs), DST #1, 5327-5380', packers-Bobtail at 5327 and 5320', 30' air cushion, Johnston Testers, 4 outside pressure recorders, 3/4" subsurface bean, 1" surface bean, perforations: 5327'-5334', 5364'-5375', ISI 20 minutes, open 1 hour, shut in 1/2 hour, immediate strong blow--steady. Gas to surface in 3 minutes. Rate 2500 MCF/D. Oil to surface in 7 minutes, estimate of oil rate 350-700 B/D, reversed out approximately 50 bbls, 39° API, IHP 2907, FHP 2900, IFP 944, FFP 1340, ISIP 2247, FSIP 2095, BHT 126°F. |

Checked BOP daily.

Mud Summary

Wt. 9.8, 9.0 #/gal.  
Vis. 41 cc  
WL 9.0 sec.  
FC 2/32"  
Salinity 11,000 ppm (r)  
PH 8.0

| CONDITION AT BEGINNING OF PERIOD |      |      |             |           |
|----------------------------------|------|------|-------------|-----------|
| HOLE                             |      |      | CASING SIZE | DEPTH SET |
| SIZE                             | FROM | TO   |             |           |
| 11                               | 0    | 1290 | 8-5/8       | 1244      |
| 7 7/8                            | 1290 | 5041 |             |           |
| DRILL PIPE SIZES 4-1/2           |      |      |             |           |

B. B. Robinson

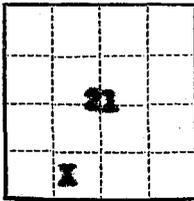
SIGNED

(SUBMIT IN TRIPLICATE)

Land Office Salt Lake City, Utah

Lease No. 8 01890

Unit \_\_\_\_\_



UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

*Notes  
Coast  
10/2/56*

SUNDRY NOTICES AND REPORTS ON WELLS

|  |  |   |
|--|--|---|
| NOTICE OF INTENTION TO DRILL                   | SUBSEQUENT REPORT OF WATER SHUT-OFF        |   |
| NOTICE OF INTENTION TO CHANGE PLANS            | SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING |   |
| NOTICE OF INTENTION TO TEST WATER SHUT-OFF     | SUBSEQUENT REPORT OF ALTERING CASING       |   |
| NOTICE OF INTENTION TO RE-DRILL OR REPAIR WELL | SUBSEQUENT REPORT OF RE-DRILLING OR REPAIR |   |
| NOTICE OF INTENTION TO SHOOT OR ACIDIZE        | SUBSEQUENT REPORT OF ABANDONMENT           |   |
| NOTICE OF INTENTION TO PULL OR ALTER CASING    | SUPPLEMENTARY WELL HISTORY                 | X |
| NOTICE OF INTENTION TO ABANDON WELL            |  |   |

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

September, 19, 1956

**Reception Creek**

Well No. Unit 1 is located 660 ft. from { N } / { S } line and 1980 ft. from { E } / { W } line of sec. 21

SE 21  
(¼ Sec. and Sec. No.)

10 E.  
(Twp.)

21 E.  
(Range)

SLEAN  
(Meridian)

Wildcat  
(Field)

San Juan  
(County or Subdivision)

Utah  
(State or Territory)

The elevation of the ~~formation~~ Reception Creek above sea level is 1605 ft.

DETAILS OF WORK

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work)

9-16-56 ISIP #1 5327-5380 (Upper Norwood/Penn.) Initial shut in 20 min., Open 1 hr., strong immediate steady blow, gas to surface in 3 min., rate 2500 MCF/D, oil to surface in 7 min., rate 350 B/D, 39" API (dry). Shut in 30 min., recovered out 502 bbls. ISIP 2247, IFF 94, IFF 134, FSIP 2095 (nearly stab), NP 2967.

9-17-56 ISIP #2 5353-5380 (Upper Norwood/Penn.) Initial shut in 20 min. Open 2 hrs., weak to moderate immediate steady blow, gas to surface in 12 min., rate nil. Shut in 1 hr. Recovered 1273' (13.8 bbl) total fluid including 66' (0.8 bbl) heavily oil and gas cut mud and 1213' (13.0 bbl) heavily gas cut oil. ISIP failed, IFF 160, IFF 215, FSIP 2040 (still rising) NP 2960.

I understand that this plan of work must receive approval in writing by the Geological Survey before operations may be commenced.

Company Shell Oil Company

Address 33 Richards Street

Salt Lake City, Utah

By B W Shepard

B. W. Shepard

Title Exploitation Engineer

Recapture Creek Unit

(FIELD)

San Juan, New Mexico

(COUNTY)

## DRILLING REPORT

FOR PERIOD ENDING

September 19, 1956

WELL NO. 4

21

(SECTION OR LEASE)

T. 40 S., R. 23 E.

(TOWNSHIP OR RANCHO)

| DAY  | DEPTHS |      | REMARKS   |
|------|--------|------|---|
|      | FROM   | TO   |   |
| 56   |        |      |   |
| 9-17 | 5373   | 5380 | Depth correction 5373'-5380'. Broke down test tool, and picked up core barrel. (Reversing out 1/2 hr., waiting for daylight to pull drill collars, 3 hrs., picking up barrel 1/2 hr.) Dressing core bbl. (1-1/2 hr.) Running into the hole to kill water flow and reconditioning hole. DST #2, 5353'-5380', Johnston Testers, packers at 5353' and 5346', (Bobtail), 30' aircushion, 4 pressure recorders (outside), 3/4" sub-surface and 1" surface bean, perforations 5353' and 5373'. ISI 20, open 2 hours, shut in 1 hour. Weak to moderate blow-steady. Gas to surface 12 minutes, rate nil. Recovered 60' (+ 8 bbls) heavily oil and gas cut mud, 1213' (+ 13 bbls) Heavily gas cut oil (39 API). IHP 3009, FHP 2960, IFP 160, FFP 245, ISIP--Tool failed, FSIP 2040, still rising after 60 minutes, BHT 125°F. Treated mud with magco-bar and mylogel. |
| 9-18 | 5380   | 5418 | Cored 38'. Treated mud with gypsum, preservative, zeogel, mylogel, and magco-bar, and salt gel.   |
| 9-19 | 5418   | 5455 | Cored 37'. Core #1, 5380-5430, serviced core barrel (1/2 hr.), repaired line clamp (5 1/2 hrs). Treated mud with mylogel, preservative, gypsum, zeogel, and salt gel.   |
|      |        |      | Checked BOP daily.  |

## Mud Summary

Wt. 10.5#/gal.

Vis. 41-5 sec.

WL 9-10 cc

FC 2-3/32"

Sal. 11,000 ppm (R)

PH 8.0

## CONDITION AT BEGINNING OF PERIOD

| HOLE             |      |      | CASING SIZE | DEPTH SET |
|------------------|------|------|-------------|-----------|
| SIZE             | FROM | TO   |             |           |
| 11               | 0    | 1290 | 8-5/8       | 1244      |
| 7 7/8            | 1290 | 5373 |             |           |
| DRILL PIPE SIZES |      |      | 4-1/2       |           |

B. B. Robinson

SIGNED

Recapture Creek Unit

(FIELD)

San Juan County, New Mexico

(COUNTY)

**DRILLING REPORT**

FOR PERIOD ENDING

9/23/56

WELL NO. \_\_\_\_\_

21

(SECTION OR LEASE)

T.40S R.23E.

(TOWNSHIP OR RANCHO)

| DAY  | DEPTHS |      | REMARKS   |
|------|--------|------|---|
|      | FROM   | TO   |   |
| 9-20 | 5455   | 5513 | Cored 58', Core #2, 5430 - 5480. Treated mud with mylogel, pre-servative gypsum.  |
| 9-21 | 5513   | 5533 | Cored 20', Core #3, 5480 - 5533. Ran Schlumberger: Electrical Survey, Gamma-Ray-Neutron and Micro-caliper log. (11 hours). Treated mud with my-lo-gel, magcobar.  |
| 9-22 | 5533   |      | Running Schlumberger 4½ hours; reaming to bottom and conditioning mud (4 3/4 hours). DST #3 5412-5533 Johnston Testers, bobtail packers 5412 and 5407, perforations 5412-5431 and 5522-5532, pressure recorders: 4, 30' air cushion, bean sizes: surface 1", subsurface 3/4", Blow, very weak, dead in 6 minutes. Recovered 40' (.2 barrels) drilling fluid. HP 3008, IFP 0, FFP 0, ISIP 190, FSIP 270(still rising after 30 minutes.)<br><br>Running in hole to circulate and wait on Halliburton Cementers. Released rotary logging unit. |
| 9-23 | 5533   |      | Conditioning mud to run casing (9½ hours); ran and cemented 5½" 17# casing at 5528' with 250 sacks construction cement. Bumped plug behind; baffle held O.K. Halliburton Cementers. Waiting on cement 4¼ hours.   |

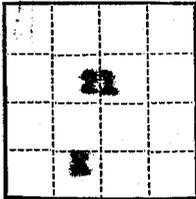
| CONDITION AT BEGINNING OF PERIOD |      |      |             |           |
|----------------------------------|------|------|-------------|-----------|
| HOLE                             |      |      | CASING SIZE | DEPTH SET |
| SIZE                             | FROM | TO   |             |           |
| 11                               | 0    | 1290 | 8 5/8       | 1244      |
| 7 7/8                            | 1290 | 5455 |             |           |
| DRILL PIPE SIZES                 |      |      |             |           |

B. B. Robinson

SIGNED

(SUBMIT IN TRIPLICATE)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY



Land Office 20-1000  
Lease No. Reception Creek  
Unit \_\_\_\_\_

*Noted  
10/2/56  
CMT*

SUNDRY NOTICES AND REPORTS ON WELLS

|  |  |                                     |
|--|--|-------------------------------------|
| NOTICE OF INTENTION TO DRILL                   | SUBSEQUENT REPORT OF WATER SHUT-OFF        |                                     |
| NOTICE OF INTENTION TO CHANGE PLANS            | SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING |                                     |
| NOTICE OF INTENTION TO TEST WATER SHUT-OFF     | SUBSEQUENT REPORT OF ALTERING CASING       |                                     |
| NOTICE OF INTENTION TO RE-DRILL OR REPAIR WELL | SUBSEQUENT REPORT OF RE-DRILLING OR REPAIR |                                     |
| NOTICE OF INTENTION TO SHOOT OR ACIDIZE        | SUBSEQUENT REPORT OF ABANDONMENT           |                                     |
| NOTICE OF INTENTION TO PULL OR ALTER CASING    | SUPPLEMENTARY WELL HISTORY                 | <input checked="" type="checkbox"/> |
| NOTICE OF INTENTION TO ABANDON WELL            |  |                                     |

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

September 25, 1956

Reception Creek  
Well No. Well 1 is located 660 ft. from S line and 3900 ft. from W line of sec. 21  
SE SW 21 40 S. 23 E. S.L.B. & M.  
(1/4 Sec. and Sec. No.) (Twp.) (Range) (Meridian)  
Wasatch San Juan Utah  
(Field) (County or Subdivision) (State or Territory)

Billy Bunking  
The elevation of the derrick floor above sea level is 6005 ft.

DETAILS OF WORK

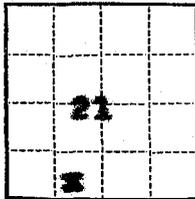
(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work)

9-23-56 152 #1 512-533 (Paradox/Funn.) Initial shut in 20 min., open 1 hour, very weak flow, shut in 6 min., shut in 30 min., recovered 60<sup>0</sup> (0.2 bbl.) ml.

PIP 190, IFF<sup>0</sup>, VFF<sup>0</sup>, BEIP 270 (still rising), IP 300

I understand that this plan of work must receive approval in writing by the Geological Survey before operations may be commenced.

Company Shell Oil Company  
Address 33 Richards Street  
Salt Lake City, Utah  
By B. W. Shepard  
B. W. Shepard  
Title Exploitation Engineer



(SUBMIT IN TRIPLICATE)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

Land Office Salt Lake City, Utah

Lease No. HD 1890

Unit Reception Creek

*Notes  
cont  
10/2/56*

SUNDRY NOTICES AND REPORTS ON WELLS

|   |                                     |   |  |
|---|-------------------------------------|---|--|
| NOTICE OF INTENTION TO DRILL.....                   |                                     | SUBSEQUENT REPORT OF WATER SHUT-OFF.....        |  |
| NOTICE OF INTENTION TO CHANGE PLANS.....            |                                     | SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING..... |  |
| NOTICE OF INTENTION TO TEST WATER SHUT-OFF.....     |                                     | SUBSEQUENT REPORT OF ALTERING CASING.....       |  |
| NOTICE OF INTENTION TO RE-DRILL OR REPAIR WELL..... |                                     | SUBSEQUENT REPORT OF RE-DRILLING OR REPAIR..... |  |
| NOTICE OF INTENTION TO SHOOT OR ACIDIZE.....        | <input checked="" type="checkbox"/> | SUBSEQUENT REPORT OF ABANDONMENT.....           |  |
| NOTICE OF INTENTION TO PULL OR ALTER CASING.....    |                                     | SUPPLEMENTARY WELL HISTORY.....                 |  |
| NOTICE OF INTENTION TO ABANDON WELL.....            |                                     |   |  |
| <u>Notice of intention to complete well</u> .....   | <input checked="" type="checkbox"/> |   |  |

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

..... September 25 ....., 19 56

Reception Creek  
Well No. Well 1 is located 660 ft. from S line and 1380 ft. from W line of sec. 21

SE SW 21 10 E. T3 E. S.1 E. A.H.  
(1/4 Sec. and Sec. No.) (Twp.) (Range) (Meridian)  
Wildcat San Juan Utah  
(Field) (County or Subdivision) (State or Territory)

The elevation of the ~~derrick floor~~ Reilly Building above sea level is 1505 ft.

DETAILS OF WORK

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work)

Status: Total depth: 5530'  
Surface casing: 5 5/8" @ 1214'  
Hole size: 7 7/8" from 1214' to Total Depth.

Proposed Work:

1. Run and cement 5 1/2" casing at 5530' with 250 sacks cement.
2. Clean out to 5515'.
3. Run Neutron Log with collar locator.
4. Displace mud with water.
5. Perforate four 1/2" holes/ft. intervals 5354'-5358' and 5362'-5375'.
6. Acidize with 500 gal. HF acid.
7. Make production test.

I understand that this plan of work must receive approval in writing by the Geological Survey before operations may be commenced.

Company Shell Oil Company

Address 33 Richards Street  
Salt Lake City, Utah

By B.W. Shepard

Title Reg. Structural Engineer

# DRILLING REPORT

FOR PERIOD ENDING

WELL NO. 1

Recapture Creek Unit  
(FIELD)

21

San Juan  
(COUNTY)

9/26/56

(SECTION OR LEASE)  
T. 10S. R. 23E.  
(TOWNSHIP OR RANCHO)

| DAY  | DEPTHS       |              | REMARKS  |
|------|--------------|--------------|--|
|      | FROM         | TO           |  |
| 56   |              |              |  |
| 9-24 | 5533         |              | Nippling up; picked up tubing (2 3/8"); drilled cement (2 hours).  |
| 9-25 | 5533         |              | Cleaned out cement to 5515', ran McCullough Tool Company, Neutron log and collar locator. Perforated 5354'-5358', 5362'-5375' with 4 1/2" super glass jets/foot. Rigged sandline for swabbing. Acidized perforations with 500 gallons acid (XFW), Dowell, Incorporated. Spotted acid opposite perforations for 2 hours, underflushed with 20 barrels of water. Treating pressure 2000-4200 psi. Formation took fluid slowly at 4200 psi. Formation broke down after 30 minutes, maximum obtainable pressure 2000 psi, maximum rate $\pm$ 5 BPM. Pressure bled to zero immediately. Packers leaked - maximum pressure 2200 psi. Packer (tubing) set at 5349', tail 5383'. Well began to flow after two swab runs. Shut in for the night because of fire hazard. |
| 9-26 | 5533<br>5515 | T.D.<br>PBTD | Open well at 6:10 A.M. - shut in at 8:10 A.M. Flowed 3/4 bbls (408 b/d) on 16/64" bean, 42°API (dry), cut 1/2% water, gas rate: 16 psi on 3/4" orifice, or 300 MCF/D, GOR 750, IP 680. Rig released at 8:30 A.M.   |

Contractor: G. Noland Drilling Co.

Drillers: T. Glayebrook  
G. Williams  
J. Swisher

| CONDITION AT BEGINNING OF PERIOD |      |      |             |           |
|----------------------------------|------|------|-------------|-----------|
| HOLE                             |      |      | CASING SIZE | DEPTH SET |
| SIZE                             | FROM | TO   |             |           |
| 11                               | 0    | 1290 | 8 5/8       | 1244      |
| 7 7/8                            | 1290 | 5533 | 5 1/2       | 5528      |
| DRILL PIPE SIZES                 |      |      |             |           |
| 1 1/2                            |      |      |             |           |

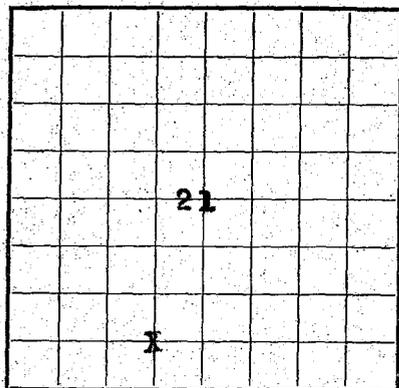
B. B. Robinson

SIGNED

Salt Lake City, Ut  
 U. S. LAND OFFICE  
 SERIAL NUMBER **00 1890**  
 LEASE OR PERMIT TO PROSPECT

*N 10*  
*11*

Form 9-330



LOCATE WELL CORRECTLY

UNITED STATES  
 DEPARTMENT OF THE INTERIOR  
 GEOLOGICAL SURVEY

**LOG OF OIL OR GAS WELL**

Company Shell Oil Company Address 33 Richards Street, Salt Lake City, UT  
 Lessor or Tract Federal Land Field Wildcat State Utah  
Recapture Creek  
 Well No. Unit 1 Sec. 21 T. 40S R. 23E Meridian S. L. B. & M. County San Juan  
 Location 660 ft.  $\left\{ \begin{matrix} N \\ S \end{matrix} \right\}$  of S Line and 1980 ft.  $\left\{ \begin{matrix} E \\ W \end{matrix} \right\}$  of W Line of Sec. 21 Elevation 4505 K.B.  
(Derrick floor relative to sea level)

The information given herewith is a complete and correct record of the well and all work done thereon so far as can be determined from all available records.  
 Signed B. W. Shepard

Date September 26, 1956 Title Exploitation Engineer

The summary on this page is for the condition of the well at above date.

Commenced drilling July 31, 19 56 Finished drilling September 21, 19 56

**OIL OR GAS SANDS OR ZONES**

(Denote gas by G)

No. 1, from 5354 to 5358 No. 4, from \_\_\_\_\_ to \_\_\_\_\_  
 No. 2, from 5362 to 5375 No. 5, from \_\_\_\_\_ to \_\_\_\_\_  
 No. 3, from \_\_\_\_\_ to \_\_\_\_\_ No. 6, from \_\_\_\_\_ to \_\_\_\_\_

**IMPORTANT WATER SANDS**

No. 1, from \_\_\_\_\_ to \_\_\_\_\_ No. 3, from \_\_\_\_\_ to \_\_\_\_\_  
 No. 2, from \_\_\_\_\_ to \_\_\_\_\_ No. 4, from \_\_\_\_\_ to \_\_\_\_\_

**CASING RECORD**

| Size casing  | Weight per foot | Threads per inch | Make     | Amount      | Kind of shoe | Cut and pulled from | Perforated  |             | Purpose                   |
|--------------|-----------------|------------------|----------|-------------|--------------|---------------------|-------------|-------------|---------------------------|
|              |                 |                  |          |             |              |                     | From—       | To—         |                           |
| <u>8 5/8</u> | <u>32#</u>      | <u>8</u>         | <u>-</u> | <u>1214</u> | <u>Baker</u> | <u>-</u>            | <u>-</u>    | <u>-</u>    | <u>Surface Production</u> |
| <u>5 1/2</u> | <u>17#</u>      | <u>8</u>         | <u>-</u> | <u>5528</u> | <u>Baker</u> | <u>5354</u>         | <u>5358</u> | <u>5362</u> |                           |

**MUDDING AND CEMENTING RECORD**

| Size casing  | Where set   | Number sacks of cement | Method used         | Mud gravity | Amount of mud used |
|--------------|-------------|------------------------|---------------------|-------------|--------------------|
| <u>8 5/8</u> | <u>224</u>  | <u>400</u>             | <u>Displacement</u> | <u>-</u>    | <u>-</u>           |
| <u>5 1/2</u> | <u>5528</u> | <u>250</u>             | <u>Displacement</u> | <u>-</u>    | <u>-</u>           |

**PLUGS AND ADAPTERS**

Heaving plug—Material Cement Length Cleaned out to Depth set 5515  
 Adapters—Material \_\_\_\_\_ Size \_\_\_\_\_

**SHOOTING RECORD**

FOLD MARK



### HISTORY OF OIL OR GAS WELL

It is of the greatest importance to have a complete history of the well. Please state in detail the dates of redrilling, together with the reasons for the work and its results. If there were any changes made in the casing, state fully, and if any casing was "sidetracked" or left in the well, give its size and location. If the well has been dynamited, give date, size, position, and number of shots. If plugs or bridges were put in to test for water, state kind of material used, position, and results of pumping or bailing.

| DATE | DESCRIPTION OF WORK   | DEPTH | REMARKS |
|------|---|-------|---------|
|      | Attached 1. Drilling History including Drilling Report, Core Record and Ditch Sample Description. |       |         |
|      | 2. Logging Unit Report. NONE  |       |         |
|      | UNDESIRABLE WATER SANDS   |       |         |
|      |   |       |         |
|      |   |       |         |
|      |   |       |         |
|      |   |       |         |

### OIL OR GAS SANDS OR ZONES

Describe the location and extent of the oil or gas sands or zones. State the depth of the top of the zone and the thickness of the zone. State the nature of the zone and the results of the tests made thereon. State the date and the name of the person who made the tests.

DATE: \_\_\_\_\_

NAME: \_\_\_\_\_

### LOG OF OIL OR GAS WELL

|  |  |  |  |  |  |
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GEOLOGICAL SURVEY  
DEPARTMENT OF THE INTERIOR  
UNITED STATES

OFFICE OF SURVEY AND RECONSTRUCTION  
SERIES 7 CUBER  
U. S. GEOLOGICAL SURVEY  
WASHINGTON, D. C. 20515

|   |    |  |
|---|----|--|
|   |    |  |
|   | 21 |  |
| X |    |  |

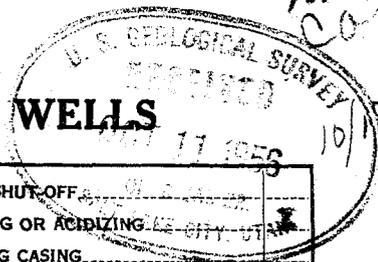
(SUBMIT IN TRIPLICATE)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

Land Office Salt Lake City, Utah

Lease No. UO 1590

Unit Recapture Creek



SUNDRY NOTICES AND REPORTS ON WELLS

|   |   |
|---|---|
| NOTICE OF INTENTION TO DRILL.....                   | SUBSEQUENT REPORT OF WATER SHUT-OFF.....        |
| NOTICE OF INTENTION TO CHANGE PLANS.....            | SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING..... |
| NOTICE OF INTENTION TO TEST WATER SHUT-OFF.....     | SUBSEQUENT REPORT OF ALTERING CASING.....       |
| NOTICE OF INTENTION TO RE-DRILL OR REPAIR WELL..... | SUBSEQUENT REPORT OF RE-DRILLING OR REPAIR..... |
| NOTICE OF INTENTION TO SHOOT OR ACIDIZE.....        | SUBSEQUENT REPORT OF ABANDONMENT.....           |
| NOTICE OF INTENTION TO PULL OR ALTER CASING.....    | SUPPLEMENTARY WELL HISTORY.....                 |
| NOTICE OF INTENTION TO ABANDON WELL.....            | <u>Subsequent Report of Well Completion X</u>   |

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

October 9, 1956

Recapture Creek

Well No. Unit 1 is located 660 ft. from [S] line and 1980 ft. from [W] line of sec. 21

SE SW 21  
(¼ Sec. and Sec. No.)

LOS  
(Twp.)

23E  
(Range)

SLEAM  
(Meridian)

Wildcat  
(Field)

San Juan  
(County or Subdivision)

Utah  
(State or Territory)

The elevation of the ~~stratigraphic~~ Kelly Bushing above sea level is 1505 ft.

DETAILS OF WORK

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work)

- 9-23-56 Ran and cemented 5 1/2", 17#, J-55, L&C casing at 5528' with 250 sacks construction cement. Flanged up.
- 9-24-56 Made up tubing and cleaned out to 5515'. Ran neutron log with collar locator. Displaced mud with water. Perforated four 1/2" holes per foot intervals 5354-5358' and 5362-5375'.
- 9-25-56 Acidized with 500 gals. acid (IF4) spotted opposite perforations (let acid stand for 2 hours). Displaced acid with 20 bbls. water. Pressure 3000 to 4200 psi. After 30 minutes formation took fluid at 5 bbls./min., final pressure 2000 psi. Finished 4:32 P.M. 9-25-56. Tubing pressure dropped to 0 immediately.

(over)

I understand that this plan of work must receive approval in writing by the Geological Survey before operations may be commenced.

Company Shell Oil Company

Address 31 Richards Street

Salt Lake City, Utah

By G. H. Holliday

Title G. H. Holliday  
Mechanical Engineer

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPPLICATE\*  
(Other instructions on re-  
verse side)

Budget Bureau No. 1004-0135  
Expires August 31, 1985

5. LEASE DESIGNATION AND SERIAL NO.

U-01890

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

RECAPTURE CREEK

9. WELL NO.

TANK BATTERY

10. FIELD AND POOL, OR WILDCAT

RECAPTURE CREEK

11. SEC., T., R., M., OR BLK. AND  
SURVEY OR AREA

SEC. 21, T40S, R23E

12. COUNTY OR PARISH 13. STATE

SAN JUAN UTAH

**SUNDRY NOTICES AND REPORTS ON WELLS**  
(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.  
Use "APPLICATION FOR PERMIT—" for such proposals.)

1. OIL WELL  GAS WELL  OTHER  Water Disposal Pit

2. NAME OF OPERATOR  
Consolidated Oil & Gas, Inc.

3. ADDRESS OF OPERATOR  
P.O. Box 2038, Farmington, New Mexico 87499

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.\*  
See also space 17 below.)  
At surface Recapture Creek Tank Battery

14. PERMIT NO.

15. ELEVATIONS (Show whether DF, RT, GR, etc.)

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

SUBSEQUENT REPORT OF:

TEST WATER SHUT-OFF   
FRACTURE TREAT   
SHOOT OR ACIDIZE   
REPAIR WELL   
(Other)  Replace Water Disposal Pit

PULL OR ALTER CASING   
MULTIPLE COMPLETE   
ABANDON\*   
CHANGE PLANS

WATER SHUT-OFF   
FRACTURE TREATMENT   
SHOOTING OR ACIDIZING   
(Other)   
REPAIRING WELL   
ALTERING CASING   
ABANDONMENT\*

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

It is our intent to replace the existing water disposal pit with a new pit to be located in an already disturbed area just North of the gas sales meters. (See attached drawings) Replacement pit size will be approximately 40' wide by 40' in length, by 7' deep, with a 3' firewall berm around the pit. One test hole on each of the four sides of the pit, will be installed in order to test for pit leakage. a 4" perforated PVC plastic pipe will be installed as liner for these test holes. These test holes will be drilled down to rock (approx. 10'). A 4' sheep fence will be installed around the pit. This work will be completed by 4-5-85.

The existing water disposal pit will be filled and covered as soon as it dries. It should be dry by June or July of 1985. This pit will be contoured as low as possible so as not to leave an unsightly mound. Reseeding will be as per requirements for reclamation of Recapture Creek #3 location.

18. I hereby certify that the foregoing is true and correct

SIGNED Chester L. Deal

TITLE Production Foreman

DATE 1/31/85

(This space for Federal or State office use)

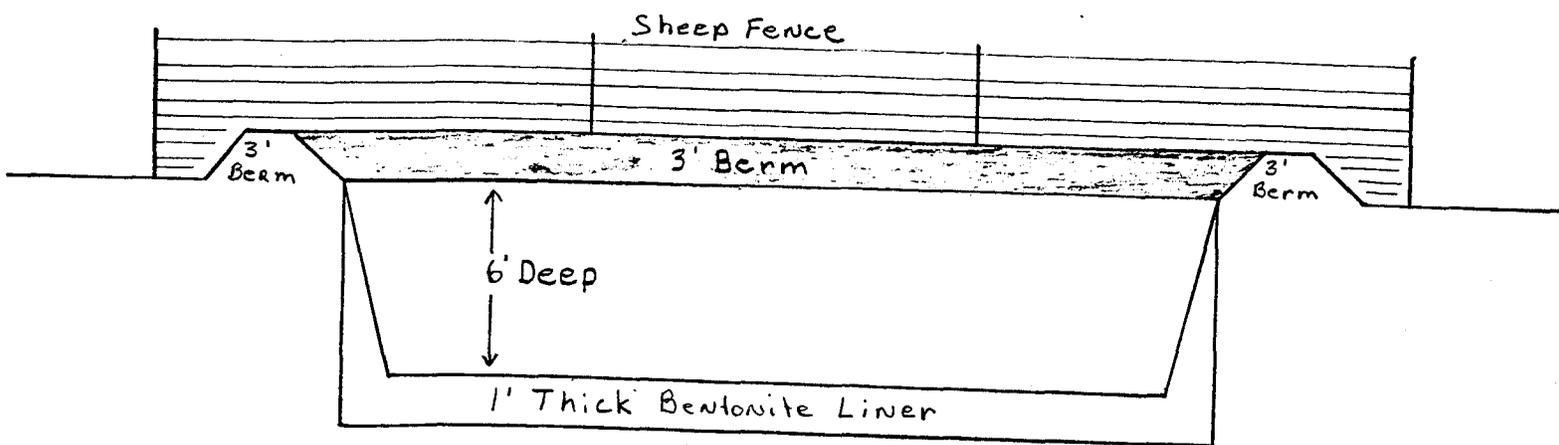
APPROVED BY \_\_\_\_\_  
CONDITIONS OF APPROVAL, IF ANY:

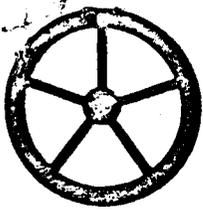
TITLE \_\_\_\_\_

DATE \_\_\_\_\_

\*See Instructions on Reverse Side







# Consolidated Oil & Gas, Inc.

P. O. BOX 2038  
ARMINGTON, NEW MEXICO 87499  
(505) 632-8056

April 2, 1985

U.S. Department of Interior  
BLM - Moab District  
San Juan Resource Area  
P.O. Box 7  
Monticello, Utah

RE: Water Disposal Pit  
Lease No. U-01890  
Sec. 21, T40S, R23E, SLBM  
San Juan County, Utah

Dear Mr. Wade,

This is to notify you that the work on the water disposal pit at Recapture Creek tank battery was completed by March 28, 1985.

The pit is complete with 1' thick Bentonite liner, leak detection holes, and 4' sheep fence, as per Sundry submitted January 31, 1985.

The old water disposal pit will be covered as soon as it dries. It should be dry by June or July 1985. I will notify you when reclamation work is about to begin on this pit.

Thank you for your cooperation in this matter.

Sincerely,

*Chester L. Deal*  
Production Foreman



UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

LAND OFFICE .....  
LEASE NUMBER Utah 01890  
UNIT .....

**LESSEE'S MONTHLY REPORT OF OPERATIONS**

State Utah County San Juan Field RECAPTURE CREEK

The following is a correct report of operations and production (including drilling and producing wells) for the month of September, 1975 Recapture Creek

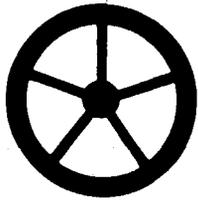
Agent's address 1860 Lincoln Street Company CONSOLIDATED OIL & GAS, INC.  
Denver, Colorado 80203

Phone (303) 255-1751 Signed Geraldine Bergamo Agent's title Production Accountant

| SEC. AND 1/4 OF 1/4 | TWP. | RANGE                               | WELL NO. | DAYS PRODUCED           | BARRELS OF OIL | GRAVITY | CU. FT. OF GAS (In thousands) | GALLONS OF GASOLINE RECOVERED | BARRELS OF WATER (If none, so state) | REMARKS (If drilling, depth; if shut down, cause; date and result of test for gasoline content of gas) |
|---------------------|------|-------------------------------------|----------|-------------------------|----------------|---------|-------------------------------|-------------------------------|--------------------------------------|--|
| Sec. 21<br>SE SW    | 40S  | 23E                                 | 1        | 30                      | 989            | 41.4    | 1,910                         | 0                             | 2                                    | P  |
| <b>TOTALS</b>       |      |                                     |          |                         | 989            |         | 1,910                         |                               | 2                                    |  |
| <b>GAS: (MCF)</b>   |      | <b>OIL or CONDENSATE: (Barrels)</b> |          | <b>WATER: (Barrels)</b> |                |         |                               |                               |                                      |  |
| Sold                |      | Sold                                |          | Disposition             |                |         |                               |                               |                                      |  |
| Vented/Flared       |      | Used                                |          | Pit                     |                |         |                               |                               |                                      |  |
| Used On Lease       |      | Unavoidably Lost                    |          | Injected                |                |         |                               |                               |                                      |  |
| Lost                |      | Reason                              |          | Other                   |                |         |                               |                               |                                      |  |
| Reason              |      |                                     |          |                         |                |         |                               |                               |                                      |  |

NOTE.—There were 1,362.07 runs or sales of oil; 1,910 M cu. ft. of gas sold;

NOTE.—Report on this form is required for each calendar month, regardless of the status of operations, and must be filed in duplicate with the supervisor by the 6th of the succeeding month, unless otherwise directed by the supervisor.



RECEIVED

FEB - 3 1986

DIVISION OF OIL  
GAS & MINING

*Consolidated Oil & Gas, Inc.*

P. O. BOX 2038  
FARMINGTON, NEW MEXICO 87499  
(505) 632-8056

January 29, 1986

State of Utah  
Division of Oil, Gas & Mining  
3 Triad Center, Suite 350  
Salt Lake City, Utah

RE: Name Change of Principal  
from Consolidated Oil & Gas, Inc.  
to Columbus Energy Corporation

Gentlemen:

Consolidated Oil & Gas, Inc. requests a name change of principal to Columbus Energy Corporation. This name change will include all Federal, Indian, State and Fee wells operated by Consolidated Oil & Gas, Inc. in Utah. The attached list contains well names, lease numbers and locations for all Federal and Indian leases operated in Utah.

Well signs have been changed to Columbus Energy Corp. and the required oil & gas bonds have been filed.

Please contact our Farmington office if you need any additional information.

Thank you,

*Dale Richardson*  
Dale Richardson

Production & Drilling Sup't.

Attach.

RECEIVED

FEB - 3 1986

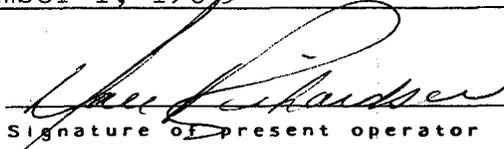
DIVISION OF OIL  
GAS & MININGCONSOLIDATED OIL & GAS, INC. - SAN JUAN COUNTY, UTAH WELLS

| <u>WELL NAME</u>     | <u>LOCATION</u>    | <u>COUNTY</u> | <u>LEASE NO.</u> |
|----------------------|--------------------|---------------|------------------|
| AKAH 1               | NE/4 33-42S-22E    | SJ            | 14-20-603-236    |
| BLUFF 3              | NW/NW/4 4-40S-23E  | SJ            | SL 071403A       |
| BLUFF 13-4           | "                  | SJ            | "                |
| BLUFF 24-5           | "                  | SJ            | "                |
| BLUFF 42-5           | "                  | SJ            | "                |
| BLUFF 44-5           | "                  | SJ            | "                |
| DESERT CREEK 2       | SE/4 35-41S-23E    | SJ            | 14-20-603-248    |
| RECAPTURE CREEK 1    | SE/SW/4 21-40S-23E | SJ            | U 01890          |
| RECAPTURE CREEK 2    | SW/4 21-40S-23E    | SJ            | "                |
| RECAPTURE CREEK 3    | SE/4 21-40S-23E    | SJ            | "                |
| TOHONADLA 1          | SE/4 35-41S-21E    | SJ            | 14-20-603-229    |
| TOHONADLA 23-35      | SW/4 35-41S-21E    | SJ            | "                |
| TOHONADLA 32-35      | NE/4 35-41S-21E    | SJ            | "                |
| TOHONADLA 36-1       | SW/4 36-41S-21E    | SJ            | "                |
| TOHONADLA 41-25      | NE/4 25-41S-21E    | SJ            | "                |
| TOHONADLA 41-35      | NE/4 35 41S-21E    | SJ            | "                |
| TOHONADLA 43-35      | SE/4 35-41S-21E    | SJ            | "                |
| TOHONADLA TRACT 23-1 | NE/4 02-42S-21E    | SJ            | 14-20-603-270    |

**NOTICE OF TRANSFER OF OWNERSHIP**

Present operator: CONSOLIDATED OIL & GAS, INC. Telephone: (505)632-8056  
Address: P.O. BOX 2038  
City: FARMINGTON State: N.M. Zip: 87499

Well no.: 1 Field or Unit name: RECAPTURE CREEK  
Sec.: 21 Twp.: 40S Rng.: 23E County: SAN JUAN Lease no. U 01890  
Effective date of transfer: December 1, 1985

  
Signature of present operator  
April 7, 1986  
Date

New operator: COLUMBUS ENERGY CORPORATION  
Address: P.O. BOX 2038  
City: FARMINGTON State: N.M. Zip: 87499

  
Signature of new operator  
April 7, 1986  
Date

(This space for DOGM approval)

Approved by: \_\_\_\_\_ Title: \_\_\_\_\_ Date: \_\_\_\_\_

BLUFF MK  
SL-071403-A  
U-01890  
(U-069)

Moab District  
San Juan Resource Area  
P. O. Box 7  
Monticello, Utah 84536

MAIL- RETURN RECEIPT REQUESTED

Postage No. P 011 596 467

JUN - 6 1986

Energy Corporation  
L. Deal  
2038  
NM 87498

RE: DEAL:

Recent inspection of your Bluff HR Unit and your leases U-01890 and U-01891, the following problems were identified:

On the Bluff HR and lease SL-071403-A the access roads are starting to show erosion problems. You are ordered to perform road maintenance to ensure drainage control within 60 days of receipt of this notice (43 CFR 3162.5-1(a)); (43 CFR 3162.1(a)).

On lease U-01890 the north side of the water disposal pit appears to be leaking produce water. Repair the leak or submit evidence showing where the water is coming from, to the Moab District Office, Branch of Fluid Minerals, P. O. Box 970, Moab, Utah 84532, within 30 days of receipt of this notice (43 CFR 3162.5-1(a)(c)); NTL "2B".

Failure to comply with this letter will result in an assessment of \$250 in accordance with 43 CFR 3163.3(a).

Section 102 (d)(1) of the Federal Oil and Gas Royalty Management Act of 1982, as amended by the applicable provisions of the operating regulations at 43 CFR 3163.4-1(b)(6)(f)(iii), provides that "Any person who: knowingly and willfully prepares, maintains, or submits false, inaccurate, or misleading reports, notices, affidavits, records, data, or other written information required by this part . . . shall be liable for a civil penalty of up to \$250 per violation for each day such violation continues, not to exceed a total of 90 days."

In order to submitting any self-certification that a cited violation has been corrected, it is in your best interest to reaffirm that the required corrective action has been taken within the time allowed.

Please notify Mike Wade of the San Juan Resource Area when these items are corrected. You may call (801) 587-2201 if you have any questions or

A lessee or operator may request a technical and procedural review of this action in accordance with 43 CFR 3165.3. Such requests, including all supporting documentation, must be filed in writing within ten (10) working days of the date of receipt of this correspondence to the State Director, Bureau of Land Management, 324 South State Street, Fourth Floor, CFR Financial Center Building, Salt Lake City, Utah 84111-2303. Such a request shall not result in a suspension of the action unless the reviewing official so determines. Such a review shall be limited by regulation to the issues of whether a violation actually existed, and if so, whether the gravity attached to the violation was appropriate, and whether a reasonable abatement period was prescribed. Additional rights of appeal and/or hearing are contained in 43 CFR 3163.4-1(a)(4) and 43 CFR Part 4.

You should notify Mike Wade of the San Juan Resource Area when these items have been corrected. You may call (801) 587-2201 if you have any questions or concerns.

Sincerely yours,

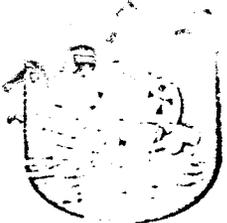
Acting  
Branch

Area Manager

*Robert Jure*

cc: MDO, Branch of Fluids

MWade:kw 6/4/86 Wang #0450K



*Columbus Energy Corp.*

*Recap. Ch.*

P.O. BOX 2038  
ALAMOGON, NEW MEXICO 87499  
(505) 632 8056

June 30, 1986

Bureau of Land Management  
Moab District - San Juan Resource Area  
P.O. Box 7  
Monticello, Utah

Dear Mr. Wade,

This is to notify you of our plans to correct the problems on our leases U-01890 and SL-71403A and Bluff HR as outlined in your letter dated June 6, 1986.

On the Bluff HR and lease SL-071403A, we will have a maintainer blade and correct washout problems. This work should be completed by July 30th at the latest.

On lease U-01890, the north side of the water disposal pit does appear to be seeping produced water. This water disposal pit was built in accordance with your recommendation and lined with Bentonite mud. I believe the reason this pit is seeping is because the high salt content in the water has prevented the swelling of the Bentonite.

To correct this problem, I believe we can dump about six truck loads of high viscosity presaturated gel from a nearby drilling reserve pit into our water disposal pit to seal off the seep. We will record the mud weight, viscosity and filter cake of the mud we use as per our phone conversation on June 13th, 1986.

Due to a slow down in drilling in the southeast Utah area I will need more than 30 days to correct this problem. As soon as I can locate a suitable drilling reserve pit, I will correct this problem.

Thank you for your cooperation in this matter. If you have any questions or concerns please call me at (505) 632-8056.

Sincerely,

*Chester L. Deal*

Chester L. Deal

District Production Foreman



# Columbus Energy Corp.

P. O. BOX 2038  
FARMINGTON, NEW MEXICO 87499  
(505) 632-8056

September 18, 1986

U.S. DEPARTMENT OF INTERIOR  
BUREAU OF LAND MANAGEMENT  
San Juan Resource Area  
P.O. Box 7  
Monticello, Utah

RE: Water Disposal Pit  
Recapture Creek Tank Battery  
Lease # U-01890

Dear Mike,

As a solution to the problem of our water disposal pit leaking, we request permission to line this pit with reinforced chlorinated polyethylene. Please find a sample of this material enclosed.

This material is supplied by Water Savers, Inc. of Denver. It is oil resistant and has an exposure life of 20 years.

Our pit already has a proven leak detection system which would remain in place to insure detection of any leaks.

We feel that to continue to pursue the sealing of this pit with Bentonite is just a waste of time and money.

Our original proposal when this pit was first built was to line it with the above mentioned material. The BLM request was to line this pit with Bentonite. We complied with your request by lining this pit with a one foot thick layer of packed Bentonite at a cost to us of \$10,000.00. This sealing process failed because of two reasons.

- 1.) Salt water does not swell Bentonite.
- 2.) Bentonite will not seal sandrock as it does loose sand.

(Cont'd)

Water Disposal Pit (Cont'd)

We want to rectify this situation, as a continued expenditure of this magnitude would render this lease unprofitable to operate.

Your cooperation in this matter would be greatly appreciated.

Sincerely,

A handwritten signature in cursive script that reads "Chester L. Deal". The signature is written in dark ink and is positioned above the typed name.

Chester L. Deal  
District Production Foreman

*Chester*

**NOTICE  
\*\*\*\*\***

Date: August 1, 1988

To: Columbus Energy Corp.  
1860 Lincoln Street  
Denver, Colorado 80295

From: UTAH DIVISION OF OIL, GAS AND MINING

During a recent examination of the Monthly Produced Water Disposal Reports, for the listed wells, a problem was observed which needs your attention in the near future.

WELLS: Recapture Creek #1/Sec.21-40S-23E  
Tohonalda #1/Sec.35-41S-21E  
Hickman #24-5/Sec.5-40S-23E

**PROBLEM:**

The reports, which you filed, indicate that produced water in excess of 5 barrels per day has been disposed of in pits which are not approved for volumes exceeding that amount. This water was reported in the following wells in the given amounts:

- Recapture Creek #1
  - 1/88-165 bbls.
  - 2/88-243 bbls.
  - 3/88-225 bbls.
  - 4/88-217 bbls.
- Tohonalda #1
  - 1/88-635 bbls.
  - 2/88-1050 bbls.
  - 3/88-1052 bbls.
  - 4/88-1016 bbls.
  - 5/88-1215 bbls.
- Hickman #24-5
  - 3/88-346 bbls.

Enclosed you will find a copy of the section of "The Oil And Gas Conservation General Rules" which pertains to this problem. Please rectify this situation as soon as possible. If you have any questions about this notice or need clarification, please call the UIC staff at (801) 538-5340.



# Columbus Energy Corp.

P. O. BOX 2038  
FARMINGTON, NEW MEXICO 87499  
(505) 632-8056

RECORDED  
AUG 31 1988

August 23, 1988

DIVISION  
OIL, GAS & MINING

Utah Division of Oil, Gas and Mining  
3 Triad Center  
Suite 350  
Salt Lake City, Utah 84180-1203

RE: Notice Dated August 1, 1988

Dear Sirs,

Please find enclosed the information needed to rectify the problem of excess produced water on the following wells:

- ✓ Recapture Creek #1 - Sec. 21, 40S, 23E
- ✓ Tohonadla #1 - Sec. 35, 41S, 21E
- ✓ Hickman Bluff #24-5 - Sec. 5, 40S, 23E

At Recapture Creek #1 tank battery we have installed a polyvinal lined evaporation pit as per Bureau of Land Management request. Please find enclosed letters, sundries and diagrams describing this pit. I believe this pit will meet your approval for disposal of reported water volumes.

At Tohonadla #1 we now have our water disposal well in service and will not be disposing of any water in an earthen pit.

For Hickman Bluff #24-5, the reported water volumes were incorrect. Please find our amended monthly produced water disposal reports attached to this letter.

If you have any questions or need further information please contact me at (505)632-8056.

Page 2 - Notice Dated Aug. 1, 1988 (Cont'd)

Thank you for your attention to this matter.

Sincerely,

*Chester L. Deal*

Chester L. Deal  
District Production Foreman

Attach.

STATE OF UTAH  
DIVISION OF OIL, GAS AND MINING

3. LEASE DESIGNATION & SERIAL NO.  
\*

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.  
Use "APPLICATION FOR PERMIT—" for such proposals.)

RECEIVED  
SEP 24 1990

1. OIL WELL  GAS WELL  OTHER

7. UNIT AGREEMENT NAME

2. NAME OF OPERATOR  
Columbus Energy Corp.

8. FARM OR LEASE NAME  
\*

3. ADDRESS OF OPERATOR  
1860 Lincoln Street, Suite 1100, Denver, CO 80295

9. WELL NO.  
\*

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.  
See also space 17 below.)  
At surface

10. FIELD AND POOL, OR WILDCAT  
\*

\*See attached exhibit

11. SEC., T., R., M. OR BLK. AND SURVEY OR AREA  
\*

14. API NO.

15. ELEVATIONS (Show whether DF, RT, GR, etc.)

12. COUNTY

13. STATE

San Juan

Utah

16. Check Appropriate Box To Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF  PULL OR ALTER CASING   
FRACTURE TREAT  MULTIPLE COMPLETE   
SHOOT OR ACIDIZE  ABANDON   
REPAIR WELL  CHANGE PLANS   
(Other)

SUBSEQUENT REPORT OF:

WATER SHUT-OFF  REPAIRING WELL   
FRACTURE TREATMENT  ALTERING CASING   
SHOOTING OR ACIDIZING  ABANDONMENT\*   
(Other)   
(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

To resign as operator

APPROX. DATE WORK WILL START \_\_\_\_\_

DATE OF COMPLETION \_\_\_\_\_

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

9/21/90

\* Must be accompanied by a cement verification report.

Gentlemen:

Effective 12:01 A.M. October 1, 1990, Columbus Energy Corp. will resign as operator of the wells listed on the attached Exhibit. Sterling Energy Corporation, the record title owner, will become the successor operator.

|             |     |
|-------------|-----|
| OIL AND GAS |     |
| DN          | RJF |
| JH          | GIH |
| IS          | SLS |
| MICROFILM   |     |
| FILE        |     |

18. I hereby certify that the foregoing is true and correct

SIGNED Gary A. Ahlfenger TITLE Land Manager

DATE 9/21/90

(This space for Federal or State office use)

APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_  
CONDITIONS OF APPROVAL, IF ANY:

See Instructions On Reverse Side

Exhibit to Sundry Notice  
 State of Utah  
 Sterling Energy Corporation  
 (owner of record)

**RECEIVED**

SEP 24 1990

| Well Name<br>=====    | 1/4/14<br>===== | Sec.<br>===== | Twn.<br>===== | Rge.<br>===== | Field<br>=====     | County<br>===== | State<br>===== |
|-----------------------|-----------------|---------------|---------------|---------------|--------------------|-----------------|----------------|
| Bluff(Unit) # 3       | NWNW            | 4             | 40S           | 23E           | Bluff 43-037-15864 | San Juan        | Utah           |
| Bluff(Unit) # 24-5    | SESW            | 5             | 40S           | 23E           | Bluff 43-037-15865 | San Juan        | Utah           |
| Bluff(Unit) # 44-5    | SESE            | 5             | 40S           | 23E           | Bluff 43-037-15867 | San Juan        | Utah           |
| Bluff # 42-5          | SENE            | 5             | 40S           | 23E           | Bluff 43-037-30866 | San Juan        | Utah           |
| Bluff # 13-4          | NWSW            | 4             | 40S           | 23E           | Bluff 43-037-30726 | San Juan        | Utah           |
| Desert Creek # 2      | SESE            | 35            | 41S           | 23E           | Desert Ck.         | San Juan        | Utah           |
| Recapture Creek # 1   | SESW            | 21            | 40S           | 23E           | Recapture Ck.      | San Juan        | Utah           |
| Recapture Creek # 2   | NWSW            | 21            | 40S           | 23E           | Recapture Ck.      | San Juan        | Utah           |
| Recapture Creek # 3   | NWSE            | 21            | 40S           | 23E           | Recapture Ck.      | San Juan        | Utah           |
| Tohonadla # 1         | SWSE            | 35            | 41S           | 21E           | Tohonadla          | San Juan        | Utah           |
| Tohonadla # 41-25     | NENE            | 25            | 41S           | 21E           | Tohonadla          | San Juan        | Utah           |
| Tohonadla # 23-35     | NESW            | 35            | 41S           | 21E           | Tohonadla          | San Juan        | Utah           |
| Tohonadla # 36-1      | SWSW            | 36            | 41S           | 21E           | Tohonadla          | San Juan        | Utah           |
| Tohonadla # 41-35 WDW | NENE            | 35            | 41S           | 21E           | Tohonadla          | San Juan        | Utah           |
| Navajo Tr. #23-1      | NENE            | 2             | 42S           | 21E           | Tohonadla          | San Juan        | Utah           |

Desert Creek #2 — 43-037-15868

Recapture Creek #1 — 43-037-15871

Recapture Creek #2 — 43-037-30727

Recapture Creek #3 — 43-037-30926

Tohonadla #1 — 43-037-15872

Tohonadla #41-25 — 43-037-15876

Tohonadla #23-35 — 43-037-15874

Tohonadla #36-1 — 43-037-30854

Tohonadla #41-35 — 43-037-15877 WDW

Navajo Tr. #23-1 — 43-037-15540

STATE OF UTAH  
DIVISION OF OIL, GAS AND MINING

RECEIVED  
SEP 24 1990

1. DISTRICT & SERIAL NO.  
\*

2. INDIAN ALLOTTEE OR TRIBE NAME  
\*  
DIVISION OF OIL, GAS & MINING

SUNDRY NOTICES AND REPORTS ON WELLS  
(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.  
Use "APPLICATION FOR PERMIT—" for such proposals.)

1. OIL WELL  GAS WELL  OTHER

7. UNIT AGREEMENT NAME  
\*

2. NAME OF OPERATOR  
Sterling Energy Corporation

8. FARM OR LEASE NAME  
\*

3. ADDRESS OF OPERATOR  
1801 Broadway, Suite 600, Denver, CO 80202

9. WELL NO.  
\*

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.  
See also space 17 below.)  
At surface  
At proposed prod. zone  
\*See attached exhibit

10. FIELD AND POOL, OR WILDCAT  
\*

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA  
\*

14. API NO.

15. ELEVATIONS (Show whether DF, RT, GR, etc.)

12. COUNTY  
San Juan

13. STATE  
Utah

16. Check Appropriate Box To Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF  FULL OR ALTER CASING   
FRACTURE TREAT  MULTIPLE COMPLETE   
SHOOT OR ACIDIZE  ABANDON   
REPAIR WELL  CHANGE PLANS   
(Other)

APPROX. DATE WORK WILL START \_\_\_\_\_

SUBSEQUENT REPORT OF:

WATER SHUT-OFF  REPAIRING WELL   
FRACTURE TREATMENT  ALTERING CASING   
SHOOTING OR ACIDIZING  ABANDONMENT\*   
(Other)  **Change of Operator**

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

DATE OF COMPLETION New Operator

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

9/21/90

\* Must be accompanied by a cement verification report.

Gentlemen:

Effective October 1, 1990, Sterling Energy Corporation will become operator of the wells listed on the attached schedule. Columbus Energy Corp. is the current operator of record. Sterling has been record title owner since August of 1989.

| OIL AND GAS        |     |
|--------------------|-----|
| DFN                | RJF |
| JFB                | GLH |
| DIS                | SLS |
| <i>[Signature]</i> |     |
| MICROFILM          |     |
| FILE               |     |

18. I hereby certify that the foregoing is true and correct

SIGNED Jerry D. Smothermon TITLE Engineer DATE 9/21/90

(This space for Federal or State office use)

APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_  
CONDITIONS OF APPROVAL, IF ANY:

See Instructions On Reverse Side

Exhibit to Sundry Notice  
 State of Utah  
 Sterling Energy Corporation  
 (owner of record)

**RECEIVED**

SEP 24 1990

DIVISION OF  
 OIL AND MINING

| Well Name           | 1/4/14 | Sec.  | Twn.  | Rge.  | Field              | County   | State |
|---------------------|--------|-------|-------|-------|--------------------|----------|-------|
| =====               | =====  | ===== | ===== | ===== | =====              | =====    | ===== |
| Bluff(Unit) # 3     | NWNW   | 4     | 40S   | 23E   | Bluff 43-037-15864 | San Juan | Utah  |
| Bluff(Unit) # 24-5  | SESW   | 5     | 40S   | 23E   | Bluff 43-037-15865 | San Juan | Utah  |
| Bluff(Unit) # 44-5  | SESE   | 5     | 40S   | 23E   | Bluff 43-037-15867 | San Juan | Utah  |
| Bluff # 42-5        | SENE   | 5     | 40S   | 23E   | Bluff 43-037-30866 | San Juan | Utah  |
| Bluff # 13-4        | NWSW   | 4     | 40S   | 23E   | Bluff 43-037-30726 | San Juan | Utah  |
| Desert Creek # 2    | SESE   | 35    | 41S   | 23E   | Desert Ck.         | San Juan | Utah  |
| Recapture Creek # 1 | SESW   | 21    | 40S   | 23E   | Recapture Ck.      | San Juan | Utah  |
| Recapture Creek # 2 | NWSW   | 21    | 40S   | 23E   | Recapture Ck.      | San Juan | Utah  |
| Recapture Creek # 3 | NWSE   | 21    | 40S   | 23E   | Recapture Ck.      | San Juan | Utah  |
| Tohonadla # 1       | SWSE   | 35    | 41S   | 21E   | Tohonadla          | San Juan | Utah  |
| Tohonadla # 41-25   | NENE   | 25    | 41S   | 21E   | Tohonadla          | San Juan | Utah  |
| Tohonadla # 23-35   | NESW   | 35    | 41S   | 21E   | Tohonadla          | San Juan | Utah  |
| Tohonadla # 36-1    | SWSW   | 36    | 41S   | 21E   | Tohonadla          | San Juan | Utah  |
| Tohonadla # 41-35   | NENE   | 35    | 41S   | 21E   | Tohonadla          | San Juan | Utah  |
| Navajo Tr. #23-1    | NENE   | 2     | 42S   | 21E   | Tohonadla          | San Juan | Utah  |

Desert Creek #2 — 43-037-15868

Recapture Creek #1 — 43-037-15871

Recapture Creek #2 — 43-037-20727

Recapture Creek #3 — 43-037-30926

Tohonadla #1 — 43-037-15872

Tohonadla #41-25 — 43-037-15876

Tohonadla #23-35 — 43-037-15874

Tohonadla #36-1 — 43-037-20854

Tohonadla #41-35 — 43-037-15877

Navajo Tr. #23-1 — 43-037-15540

RECEIVED  
SEP 24 1990

DESIGNATION OF AGENT OR OPERATOR - FORM 5

The undersigned is, on record, the holder of oil and gas lease

LEASE NAME: See attached exhibit

LEASE NUMBER: See attached exhibit

and hereby designates

NAME: Trinity Petroleum Management, Inc.

ADDRESS: 1801 Broadway, Suite 600, Denver, CO 80202

as his agent/operator, with full authority to act in his behalf in complying with the terms of the lease and regulations applicable thereto and on whom the Division Director or Authorized Agent may serve written or oral instructions in securing compliance with the Oil and Gas Conservation General Rules and Procedural Rules of the Board of Oil, Gas and Mining of the State of Utah with respect to (describe acreage to which this designation is applicable):

See attached exhibit

*\* 901205 per Unit Agreement "Sterling Energy" has to do the reporting for this well. They cannot designate "Trinity Petroleum" as Agent for reporting purposes.*

| OIL AND GAS |     |
|-------------|-----|
| DFN         | RJF |
| JFB         | GIH |
| DIS         | SLS |
| <i>JCB</i>  |     |
| MICROFILM   |     |
| FILE        |     |

It is understood that this designation of agent/operator does not relieve the lessee of responsibility for compliance with the terms of the lease and the Oil and Gas Conservation General Rules and Procedural Rules of the Board of Oil, Gas and Mining of the State of Utah. It is also understood that this designation of agent or operator does not constitute an assignment of any interest in the lease.

In case of default on the part of the designated agent/operator, the lessee will make full and prompt compliance with all rules, lease terms or orders of the Board of Oil, Gas and Mining of the State of Utah or its authorized representative.

The lessee agrees promptly to notify the Division Director or Authorized Agent of any change in this designation.

Effective Date of Designation 10/1/90

By: *J. Samuel Butler*  
(signature) J. Samuel Butler

Company Sterling Energy Corporation  
Address 1801 Broadway, Suite 600  
Denver, CO 80202

Title: President  
Phone: 303-296-1908

Exhibit to Sundry Notice  
 State of Utah  
 Sterling Energy Corporation  
 (owner of record)

**RECEIVED**

SEP 24 1990

DIVISION OF  
 OIL, GAS & MINING

| Well Name<br>=====  | 1/4/14<br>===== | Sec.<br>===== | Twn.<br>===== | Rge.<br>===== | Field<br>=====     | County<br>===== | State<br>===== |
|---------------------|-----------------|---------------|---------------|---------------|--------------------|-----------------|----------------|
| Bluff(Unit) # 3     | NWNW            | 4             | 40S           | 23E           | Bluff 43-037-15864 | San Juan        | Utah           |
| Bluff(Unit) # 24-5  | SESW            | 5             | 40S           | 23E           | Bluff 42-037-15865 | San Juan        | Utah           |
| Bluff(Unit) # 44-5  | SESE            | 5             | 40S           | 23E           | Bluff 43-037-15867 | San Juan        | Utah           |
| Bluff # 42-5        | SENE            | 5             | 40S           | 23E           | Bluff 43-037-30866 | San Juan        | Utah           |
| Bluff # 13-4        | NWSW            | 4             | 40S           | 23E           | Bluff 43-037-30726 | San Juan        | Utah           |
| Desert Creek # 2    | SESE            | 35            | 41S           | 23E           | Desert Ck.         | San Juan        | Utah           |
| Recapture Creek # 1 | SESW            | 21            | 40S           | 23E           | Recapture Ck.      | San Juan        | Utah           |
| Recapture Creek # 2 | NWSW            | 21            | 40S           | 23E           | Recapture Ck.      | San Juan        | Utah           |
| Recapture Creek # 3 | NWSE            | 21            | 40S           | 23E           | Recapture Ck.      | San Juan        | Utah           |
| Tohonadla # 1       | SWSE            | 35            | 41S           | 21E           | Tohonadla          | San Juan        | Utah           |
| Tohonadla # 41-25   | NENE            | 25            | 41S           | 21E           | Tohonadla          | San Juan        | Utah           |
| Tohonadla # 23-35   | NESW            | 35            | 41S           | 21E           | Tohonadla          | San Juan        | Utah           |
| Tohonadla # 36-1    | SWSW            | 36            | 41S           | 21E           | Tohonadla          | San Juan        | Utah           |
| Tohonadla # 41-35   | NENE            | 35            | 41S           | 21E           | Tohonadla          | San Juan        | Utah           |
| Navajo Tr. #23-1    | NENE            | 2             | 42S           | 21E           | Tohonadla          | San Juan        | Utah           |

Desert Creek #2 — 43-037-15868

Recapture Creek #1 - 43-037-15871

Recapture Creek #2 - 43-037-20727

Recapture Creek #3 - 42-037-30926

Tohonadla #1 — 43-037-15872

Tohonadla #41-25 - 43-037-15876

Tohonadla #23-35 - 43-037-15874

Tohonadla #36-1 — 43-037-30854

Tohonadla #41-35 - 43-037-15877

Navajo Tr. #23-1 — 43-037-15540

Bureau of Land Management  
Branch of Fluid Minerals (U-922)  
324 South State Street  
Salt Lake City, Utah 84111-2303

**RECEIVED**  
DEC 06 1990

DIVISION OF  
OIL, GAS & MINING  
December 5, 1990

Sterling Energy Corporation  
1801 Broadway, Suite 600  
Denver, Colorado 80202

Re: Successor of Operator  
Recapture Creek Unit  
San Juan County, Utah

Gentlemen:

We received an indenture dated October 1, 1990, whereby Consolidated Oil and Gas, Inc. resigned as Operator and Sterling Energy Corporation was designated as Operator for the Recapture Creek Unit, San Juan County, Utah.

This indenture was executed by all required parties. The signatory parties have complied with Section 6 of the unit agreement. The instrument is hereby accepted effective as of December 5, 1990.

Pursuant to regulations issued and effective June 17, 1988, all operations within the Recapture Creek Unit will be covered by your nationwide (Colorado) oil and gas bond No. 0944.

Please advise all interested parties of the change in unit operator.

Sincerely,

/s/ Al McKee

*So* Robert A. Henricks  
Chief, Branch of Fluid Minerals

Enclosure

bcc: District Manager - Moab (w/enclosure)  
File - Recapture Creek (enclosure)  
Reference Data Branch - R. Richards  
Division Oil, Gas and Mining  
U-942 (Linda)  
Agr. Sec. Chron

U-922:TAThompson:tt:12-05-90  
0013U

Routing:

|        |                                     |
|--------|-------------------------------------|
| 1- LCR | <input checked="" type="checkbox"/> |
| 2- DTS | <input checked="" type="checkbox"/> |
| 3- VLC | <input checked="" type="checkbox"/> |
| 4- RJF | <input checked="" type="checkbox"/> |
| 5- RWM | <input checked="" type="checkbox"/> |
| 6- LGR | <input checked="" type="checkbox"/> |

Attach all documentation received by the division regarding this change.  
 Initial each listed item when completed. Write N/A if item is not applicable.

- Change of Operator (well sold)       Designation of Agent  
 Designation of Operator             Operator Name Change Only

The operator of the well(s) listed below has changed (EFFECTIVE DATE: 12-5-90)

|                   |                                    |                        |                                |
|-------------------|------------------------------------|------------------------|--------------------------------|
| TO (new operator) | <u>STERLING ENERGY CORPORATION</u> | FROM (former operator) | <u>COLUMBUS ENERGY CORP.</u>   |
| (address)         | <u>1801 BROADWAY, SUITE 600</u>    | (address)              | <u>1860 LINCOLN ST., #1100</u> |
|                   | <u>DENVER, CO 80202</u>            |                        | <u>DENVER, CO 80295</u>        |
|                   | <u>phone (303 ) 296-1908</u>       |                        | <u>phone (303 ) 861-5252</u>   |
|                   | <u>account no. N 5945</u>          |                        | <u>account no. N0255</u>       |

Well(s) (attach additional page if needed):

|                                     |                        |                     |   |                            |
|-------------------------------------|------------------------|---------------------|---|----------------------------|
| Name: <u>RECAPTURE CRK #1/IS-DC</u> | API: <u>4303715871</u> | Entity: <u>6265</u> | Sec <u>21</u> Twp <u>40S</u> Rng <u>23E</u> | Lease Type: <u>U-01890</u> |
| Name: _____                         | API: _____             | Entity: _____       | Sec _____ Twp _____ Rng _____               | Lease Type: _____          |
| Name: _____                         | API: _____             | Entity: _____       | Sec _____ Twp _____ Rng _____               | Lease Type: _____          |
| Name: _____                         | API: _____             | Entity: _____       | Sec _____ Twp _____ Rng _____               | Lease Type: _____          |
| Name: _____                         | API: _____             | Entity: _____       | Sec _____ Twp _____ Rng _____               | Lease Type: _____          |
| Name: _____                         | API: _____             | Entity: _____       | Sec _____ Twp _____ Rng _____               | Lease Type: _____          |
| Name: _____                         | API: _____             | Entity: _____       | Sec _____ Twp _____ Rng _____               | Lease Type: _____          |

**OPERATOR CHANGE DOCUMENTATION**

1. (Rule R615-8-10) Sundry or other legal documentation has been received from former operator (Attach to this form).
2. (Rule R615-8-10) Sundry or other legal documentation has been received from new operator (Attach to this form).
3. The Department of Commerce has been contacted if the new operator above is not currently operating any wells in Utah. Is company registered with the state? (yes) no yes If yes, show company file number: #141334 (10-1-90)
4. (For Indian and Federal Wells ONLY) The BLM has been contacted regarding this change (attach Telephone Documentation Form to this report). Make note of BLM status in comments section of this form. Management review of **Federal and Indian** well operator changes should take place prior to completion of steps 5 through 9 below.
5. Changes have been entered in the Oil and Gas Information System (Wang/IBM) for each well listed above. (12-17-90)
6. Cardex file has been updated for each well listed above.
7. Well file labels have been updated for each well listed above.
8. Changes have been included on the monthly "Operator, Address, and Account Changes" memo for distribution to State Lands and the Tax Commission.
9. A folder has been set up for the Operator Change file, and a copy of this page has been placed there for reference during routing and processing of the original documents.

ENTITY REVIEW

- 1. (Rule R615-8-7) Entity assignments have been reviewed for all wells listed above. Were entity changes made? (yes (no) NO (If entity assignments were changed, attach copies of Form 6, Entity Action Form). *(single entity well - Recapture Creek U/HRMS P.A.)*
- 2. State Lands and the Tax Commission have been notified through normal procedures of entity changes.

BOND VERIFICATION (Fee wells only)

- 1. (Rule R615-3-1) The new operator of any fee lease well listed above has furnished a proper bond.
- 2. A copy of this form has been placed in the new and former operators' bond files.
- 3. The former operator has requested a release of liability from their bond (yes/no)    . Today's date                      19   . If yes, division response was made by letter dated                      19   .

LEASE INTEREST OWNER NOTIFICATION RESPONSIBILITY

- 1. (Rule R615-2-10) The former operator/lessee of any fee lease well listed above has been notified by letter dated                      19   , of their responsibility to notify any person with an interest in such lease of the change of operator. Documentation of such notification has been requested.
- 2. Copies of documents have been sent to State Lands for changes involving State leases.

MICROFILMING

- 1. All attachments to this form have been microfilmed. Date: December 19 1990.

FILED

- 1. Copies of all attachments to this form have been filed in each well file.
- 2. The original of this form and the original attachments have been filed in the Operator Change file.

REMARKS

901205 btm/mcab Approved off. 12-5-90. "See Successors of Operator" Recapture Creek Unit.

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
Budget Bureau No. 1004-0135  
Expires: March 31, 1993

**SUNDRY NOTICES AND REPORTS ON WELLS**

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.  
Use "APPLICATION FOR PERMIT—" for such proposals

**SUBMIT IN TRIPLICATE**

1. Type of Well  
 Oil Well     Gas Well     Other

2. Name of Operator  
Sterling Energy Corporation

3. Address and Telephone No.  
180 Broadway Suite 600, Denver, CO 80202 (303)296-1908

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)  
660' FSL & 1980' FWL (SE/SW)  
Sec. 21, T40S, R23E

5. Lease Designation and Serial No.  
U-01890

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation

8. Well Name and No.  
Recapture Creek 1

9. API Well No.  
430-37-15871

10. Field and Pool, or Exploratory Area  
Recapture Creek

11. County or Parish, State  
San Juan, UT

12. CHECK APPROPRIATE BOX(S) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

| TYPE OF SUBMISSION   | TYPE OF ACTION  |
|--|---|
| <input type="checkbox"/> Notice of Intent<br><input type="checkbox"/> Subsequent Report<br><input type="checkbox"/> Final Abandonment Notice | <input type="checkbox"/> Abandonment<br><input type="checkbox"/> Recompletion<br><input type="checkbox"/> Plugging Back<br><input type="checkbox"/> Casing Repair<br><input type="checkbox"/> Altering Casing<br><input checked="" type="checkbox"/> Other <u>Acidizing</u>   |
|  | <input type="checkbox"/> Change of Plans<br><input type="checkbox"/> New Construction<br><input type="checkbox"/> Non-Routine Fracturing<br><input type="checkbox"/> Water Shut-Off<br><input type="checkbox"/> Conversion to Injection<br><input type="checkbox"/> Dispose Water<br><small>(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)</small> |

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

Work done - 7-14-92 Pumped 2000 gallons 10% acetic acid down 5 1/2" x 2 7/8" annulus. Displaced with produced water. Shut-in overnight and resumed production.

**RECEIVED**  
 NOV 27 1992  
 DIVISION OF  
 OIL GAS & MINING

14. I hereby certify that the foregoing is true and correct  
 Signed Richard A. Ferris Title Chief Operations Engineer Date 11/23/92

(This space for Federal or State office use)  
 Approved by \_\_\_\_\_ Title \_\_\_\_\_ Date \_\_\_\_\_  
 Conditions of approval, if any:

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

**STATE OF UTAH**  
**DIVISION OF OIL, GAS AND MINING**  
 355 West North Temple, 3 Triad, Suite 350, Salt Lake City, UT 84180-1203

**MONTHLY OIL AND GAS PRODUCTION REPORT**

OPERATOR NAME AND ADDRESS:

STERLING ENERGY CORP  
 1801 BROADWAY STE 600  
 DENVER CO 80202

UTAH ACCOUNT NUMBER: N5945

REPORT PERIOD (MONTH/YEAR): 10 / 94

AMENDED REPORT  (Highlight Changes)

| Well Name<br>API Number           | Entity | Location   | Producing Zone | Well Status | Days Oper | Production Volumes |                      |            |
|-----------------------------------|--------|------------|----------------|-------------|-----------|--------------------|----------------------|------------|
|                                   |        |            |                |             |           | OIL(BBL)           | GAS(MCF)             | WATER(BBL) |
| RECAPTURE CREEK 1<br>4303715871   | 06265  | 40S 23E 21 | IS-DC          |             |           | U-01890            | Recapture Creek Unit |            |
| BLUFF #3<br>4303715864            | 11146  | 40S 23E 4  | DSCR           |             |           | SL071403A          | "Bluff Unit"         |            |
| BLUFF #24-5<br>4303715865         | 11146  | 40S 23E 5  | PRDX           |             |           | "                  | "                    |            |
| BLUFF 44-5<br>4303715867          | 11146  | 40S 23E 5  | PRDX           |             |           | "                  | "                    |            |
| BLUFF #13-4<br>4303730726         | 11146  | 40S 23E 4  | DSCR           |             |           | "                  | "                    |            |
| BLUFF #42-5<br>4303730866         | 11146  | 40S 23E 5  | DSCR           |             |           | "                  | "                    |            |
| Recapture Creek 2<br>43-037-30727 | 06255  | 40S 23E 21 | IS-DC          |             |           | U-01890            | Non-Unit Well        |            |
| Recapture Creek 3<br>43-037-30926 | 08450  | 40S 23E 21 | DSCR           |             |           | U-01890            | Non-Unit Well        |            |
| <b>TOTALS</b>                     |        |            |                |             |           |                    |                      |            |

COMMENTS: \_\_\_\_\_

I hereby certify that this report is true and complete to the best of my knowledge.

Date: \_\_\_\_\_

Name and Signature: \_\_\_\_\_

Telephone Number: \_\_\_\_\_

Office of the Secretary of State

---

I, EDWARD J. FREEL, SECRETARY OF STATE OF THE STATE OF DELAWARE, DO HEREBY CERTIFY THE CERTIFICATE OF OWNERSHIP, WHICH MERGES:

"BASIN STERLING, INC.", A COLORADO CORPORATION, WITH AND INTO "BASIN EXPLORATION, INC." UNDER THE NAME OF "BASIN EXPLORATION, INC.", A CORPORATION ORGANIZED AND EXISTING UNDER THE LAWS OF THE STATE OF DELAWARE, WAS RECEIVED AND FILED IN THIS OFFICE THE TWENTY-SECOND DAY OF NOVEMBER, A.D. 1994, AT 4:30 O'CLOCK P.M.

AND I DO HEREBY FURTHER CERTIFY THAT THE AFORESAID CORPORATION SHALL BE GOVERNED BY THE LAWS OF THE STATE OF DELAWARE.



*Edward J. Freel*

Edward J. Freel, Secretary of State

2289801 8330

944226741

AUTHENTICATION:

7312955

DATE:

11-23-94

**Basin Operating Company**

370 17th Street, Suite 1800

Denver, CO 80202

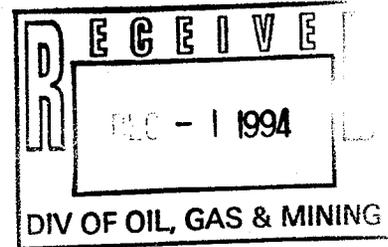
Office 303/685-8000

Fax 303/685-8010



November 30, 1994

Ms. Lisha Cordova  
State of Utah Department of Natural Resources  
Division of Oil, Gas and Mining  
3 Triad Center, Suite 350  
355 West North Temple  
Salt Lake City, Utah 84180-1203



Re: **Sterling Energy Corporation Merger  
and Change of Name**

Dear Ms. Cordova:

On November 22, 1994, Basin Energy, Inc., a Colorado corporation, merged into Sterling Energy Corporation, a Colorado corporation, and became Basin Sterling, Inc., a wholly owned subsidiary of Basin Exploration, Inc. Immediately thereafter, Basin Sterling, Inc. merged into its parent corporation, Basin Exploration, Inc., a Delaware corporation.

Sterling Energy Corporation is now, for all purposes, Basin Exploration, Inc. Attached are copies of Certificates of Merger from the states of Colorado and Delaware, evidencing the corporate mergers described above.

The address of Basin Exploration, Inc. is 370 17th Street, Suite 1800, Denver, Colorado. Please change all Sterling Energy Corporation records to reflect the new name and address.

Basin Operating Company (the wholly owned operating subsidiary of Basin Exploration, Inc.) will, by operation of law, become the operator of the properties on December 1, 1994. Sundry notices (Form 9) and exhibits for the properties are enclosed.

Please contact me if you have any additional questions regarding this merger.

Yours very truly,

**BASIN OPERATING COMPANY**

  
Judi Roys  
Production

Enclosure

STATE OF UTAH  
DIVISION OF OIL, GAS AND MINING

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, deepen existing wells, or to reenter plugged and abandoned wells.  
Use APPLICATION FOR PERMIT TO DRILL OR DEEPEN form for such proposals.

5. Lease Designation and Serial Number:

6. If Indian, Alottee or Tribe Name:

7. Unit Agreement Name:

8. Well Name and Number:

9. API Well Number:

10. Field and Pool, or Wildcat:

1. Type of Well: OIL  GAS  OTHER:

2. Name of Operator: BASIN OPERATING COMPANY

3. Address and Telephone Number: 370 17TH STREET, SUITE 1800, DENVER, CO 80202  
(303) 685-8500

4. Location of Well

Footages:

SEE ATTACHED

County: SAN JUAN

State: UTAH

OO, Sec., T., R., M.:

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

NOTICE OF INTENT  
(Submit in Duplicate)

- Abandon
- Repair Casing
- Change of Plans
- Convert to Injection
- Fracture Treat or Acidize
- Multiple Completion
- Other \_\_\_\_\_
- New Construction
- Pull or Alter Casing
- Recomplete
- Reperforate
- Vent or Flare
- Water Shut-Off

Approximate date work will start \_\_\_\_\_

SUBSEQUENT REPORT  
(Submit Original Form Only)

- Abandon
- Repair Casing
- Change of Plans
- Convert to Injection
- Fracture Treat or Acidize
- Other Change name of operator due to corporate merger.
- New Construction
- Pull or Alter Casing
- Reperforate
- Vent or Flare
- Water Shut-Off

Date of work completion December 1, 1994  
(effective date)

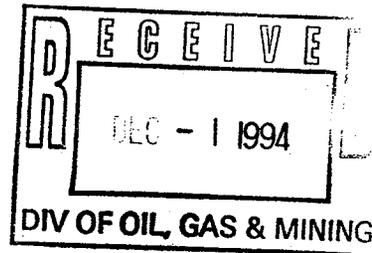
Report results of Multiple Completions and Recompletions to different reservoirs on WELL COMPLETION OR RECOMPLETION REPORT AND LOG form.

\* Must be accompanied by a cement verification report.

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

FORMER NAME OF OPERATOR:

Sterling Energy Corporation  
% Trinity Petro Mgt Inc.  
1801 Broadway, Suite 600  
Denver, CO 80202



13.

Name & Signature:

*David M. Blawie*

Title: V.P. CHIEF OPERATING OFFICER Date: 11/30/94

(This space for State use only)

ARTICLES OF MERGER FOR THE MERGER OF  
BASIN ENERGY, INC.,  
a Colorado corporation, into  
STERLING ENERGY CORPORATION,  
a Colorado corporation

RECEIVED  
1994 NOV 22 PM 3:30  
SECRETARY OF STATE  
STATE OF COLORADO

Pursuant to the provisions of Section 7-111-101 of the Colorado Business Corporation Act, the undersigned corporation has caused an officer to execute these Articles of Merger for the purpose of filing with the Secretary of State of the State of Colorado.

Article I

The "Agreement and Plan of Merger" attached hereto as Exhibit A and incorporated herein by reference has been approved and adopted by the directors and the shareholders of Basin Energy, Inc., a Colorado corporation ("Basin"), in the manner provided by the laws of the State of Colorado and by the directors and the shareholders of Sterling Energy Corporation, a Colorado corporation ("Sterling"), in the manner provided by the laws of the State of Colorado. Sterling is the surviving corporation, however, the name of the surviving entity shall be Basin Sterling, Inc. ("BSI").

Article II

As to Basin, the number of shares cast for the Agreement and Plan of Merger by each voting group entitled to vote separately thereon was sufficient for approval thereof.

As to Sterling, the number of shares cast for the Agreement and Plan of Merger by each voting group entitled to vote separately thereon was sufficient for approval thereof.

Article III

The Merger is to be effective on and as of the date upon which these Articles of Merger are filed with the Secretary of State of the State of Colorado.

Article IV

BSI agrees that it will promptly pay to any dissenting shareholders the amount, if any, to which they may be entitled under the provisions of the Colorado Business Corporation Act with respect to the rights of dissenting shareholders.

Article V

BSI agrees that it may be served with process in any proceeding for the enforcement of any obligation of Basin and in any proceeding for the enforcement of the rights of a dissenting shareholder against BSI.

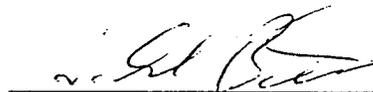
Such service of process, if any, shall be sent by registered or certified mail to its principal office at:

Basin Sterling, Inc.  
c/o Basin Exploration, Inc.  
370 Seventeenth Street, Suite 1800  
Denver, Colorado 80202

Attention: Howard L. Boigon  
Vice President - General  
Counsel and Secretary

Executed this 22<sup>nd</sup> day of November, 1994

STERLING ENERGY CORPORATION,  
a Colorado corporation

By   
J. Samuel Butler, President

BASIN ENERGY, INC.,  
a Colorado corporation

By   
Michael S. Smith, President

| FIELD           | WELL NAME         | API #              | COUNTY   | ST | SEC | TWN | RGE | 1/4 1/4 | LEASE #   |
|-----------------|-------------------|--------------------|----------|----|-----|-----|-----|---------|-----------|
|                 |                   |                    |          |    |     |     |     |         | (entity#) |
| ✓ BLUFF         | BLUFF 13- 4       | 430373072600       | SAN JUAN | UT | 4   | 40S | 23E | NWSW    | 11146     |
| ✓ BLUFF         | BLUFF 24-5        | 430371586500       | SAN JUAN | UT | 5   | 40S | 23E | SESW    |           |
| ✓ BLUFF         | BLUFF 3           | 430371586400       | SAN JUAN | UT | 4   | 40S | 23E | NWNW    |           |
| ✓ BLUFF         | BLUFF 42- 5       | 430373086600       | SAN JUAN | UT | 5   | 40S | 23E | SENE    |           |
| ✓ BLUFF         | BLUFF 44-5        | 430371586700       | SAN JUAN | UT | 5   | 40S | 23E | SESE    |           |
|                 |                   |                    |          |    |     |     |     |         |           |
| DESERT CREEK    | DESERT CREEK 2    | 430371586800       | SAN JUAN | UT | 35  | 41S | 23E | SESE    | 06270     |
|                 |                   |                    |          |    |     |     |     |         |           |
| ✓ RECAP . CREEK | RECAPTURE CREEK 1 | 430371587100       | SAN JUAN | UT | 21  | 40S | 23E | SESW    | 06265     |
|                 |                   |                    |          |    |     |     |     |         |           |
| ✓ RECAP . CREEK | RECAPTURE CREEK 2 | 430373072700       | SAN JUAN | UT | 21  | 40S | 23E | NWSW    | 06255     |
| ✓ RECAP . CREEK | RECAPTURE CREEK 3 | 430373092600       | SAN JUAN | UT | 21  | 40S | 23E | NWSE    | 08450     |
|                 |                   |                    |          |    |     |     |     |         |           |
| TOHONADLA       | NAVAJO TR #23-1   | 430371056500       | SAN JUAN | UT | 2   | 42S | 21E | NENE    | 06230     |
|                 |                   |                    |          |    |     |     |     |         |           |
| TOHONADLA       | TOHONADLA 1       | 430371587200       | SAN JUAN | UT | 35  | 41S | 21E | SWSE    | 11202     |
| TOHONADLA       | TOHONADLA + 23-35 | 430371587400       | SAN JUAN | UT | 35  | 41S | 21E | SWSE    |           |
| TOHONADLA       | TOHONADLA + 41-25 | 430371587600       | SAN JUAN | UT | 35  | 41S | 21E | SWSE    |           |
| TOHONADLA       | TOHONADLA + 2-35  | 31568 430371587200 | SAN JUAN | UT | 35  | 41S | 21E | SWSE    |           |
| TOHONADLA       | TOHONADLA + 36-1  | 30854 430371587200 | SAN JUAN | UT | 35  | 41S | 21E | SWSE    | 6/260     |

ARTICLES OF MERGER FOR THE MERGER OF  
BASIN STERLING, INC.,  
a Colorado corporation, into  
BASIN EXPLORATION, INC.,  
a Delaware corporation

RECEIVED  
1994 NOV 22 PM 3:35  
SECRETARY OF STATE  
STATE OF COLORADO

Pursuant to the provisions of Sections 7-111-107 and 7-111-104 of the Colorado Business Corporation Act, the undersigned corporation has caused an officer to execute these Articles of Merger for the purpose of filing with the Secretary of State of the State of Colorado.

Article I

The "Plan of Merger" attached hereto as Exhibit A and incorporated herein by reference has been approved and adopted by the directors of Basin Exploration, Inc., a Delaware corporation ("Basin"), in the manner provided by the laws of the states of Delaware and Colorado.

Article II

Basin owns 100% of each class of the issued and outstanding capital stock of BSI.

ARTICLE III

As to BSI, no shareholder approval was required for the merger.

As to Basin, no stockholder approval was required for the merger.

Article IV

The Merger is to be effective on and as of the date upon which these Articles of Merger are filed with the Secretary of State of the State of Colorado.

Article V

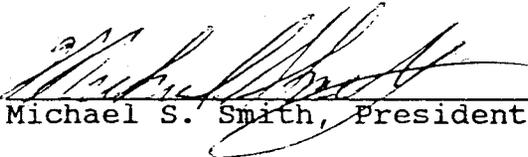
Basin agrees that it may be served with process in any proceeding for the enforcement of any obligation of BSI.

Such service of process, if any, shall be sent by registered or certified mail to its principal office at:

Basin Exploration, Inc.  
Suite 1800  
370 17th Street  
Denver, Colorado 80202  
Attention: Howard L. Boigon, Vice President -  
General Counsel and Secretary

Executed this 22<sup>nd</sup> day of November, 1994

Basin Exploration, Inc.,  
a Delaware corporation

BY   
Michael S. Smith, President

## Exhibit A

### PLAN OF MERGER

THIS PLAN OF MERGER, dated as of November 22, 1994, is to provide for the merger of Basin Sterling, Inc., a Colorado corporation ("BSI"), into Basin Exploration, Inc., a Delaware corporation ("Basin"). BSI and Basin are sometimes hereafter together referred to as the "Constituent Corporations."

WHEREAS, BSI is a corporation duly organized and existing under the laws of the State of Colorado, having an authorized capital stock of 10,000 shares of Common Stock, \$.01 par value (the "BSI Common Stock");

WHEREAS, 1,000 shares of BSI Common Stock are issued and outstanding and owned by Basin, and are the only shares of capital stock of BSI issued and outstanding;

WHEREAS, the board of directors of Basin has determined that it is advisable and in the best interests of such corporations that BSI merge with and into Basin as authorized by the statutes of the states of Colorado and Delaware and upon the terms and subject to the conditions of this Agreement; and

WHEREAS, the board of directors of Basin has, by resolutions duly adopted, approved this Plan and, pursuant to the statutes of the states of Colorado and Delaware, no shareholder or stockholder approval was required.

NOW, THEREFORE, it is resolved as follows:

**1. Merger.** Upon the terms and subject to the conditions set forth in this Plan, BSI shall be merged with and into Basin (the "Merger"), and Basin shall be the surviving corporation (sometimes hereafter referred to as the "Surviving Corporation"). The name of the Surviving Corporation shall be Basin Exploration, Inc. The Merger shall become effective (the "Effective Time") upon the time and date of filing of such documents as required under applicable law.

**2. Governing Documents.** The certificate of incorporation of Basin, as in effect immediately prior to the Effective Time, shall be the certificate of incorporation of the Surviving Corporation without change or amendment until thereafter amended in accordance with applicable law. The bylaws of Basin, as in effect immediately prior to the Effective Time, shall be the bylaws of the Surviving Corporation without change or amendment until thereafter amended in accordance with applicable law. References to "the corporation" in Article 6 of the bylaws of Basin shall include BSI, in addition to Basin, so that any person who was a director or officer of BSI or is or was serving at the request of BSI as a director, employee, or agent

of another corporation, partnership, joint venture, trust, association, or other entity shall stand in the same position under the provisions of said Article 6 with respect to Basin as he would if he had served Basin in the same capacity or is or was so serving such other entity at the request of Basin, as the case may be.

3. **Succession; Officers and Directors.** At the Effective Time, the separate corporate existence of BSI shall cease, and Basin as the Surviving Corporation shall possess all the rights, privileges, powers and franchises of a public and private nature and be subject to all the restrictions, disabilities and duties of BSI; and all rights, privileges, powers and franchises of BSI, and all property, real, personal and mixed, and all debts due to BSI on whatever account, as well as for share subscriptions and all other things in action belonging to BSI, shall be vested in the Surviving Corporation; and all property, rights, privileges, powers and franchises, and all and every other interest shall be thereafter as effectively the property of the Surviving Corporation as they were of BSI, and the title to any real estate vested by deed or otherwise in BSI, shall not revert or be in any way impaired by reason of the Merger; but all rights of creditors and all liens upon any property of BSI shall be preserved unimpaired, and all debts, liabilities and duties of BSI shall thenceforth attach to the Surviving Corporation and may be enforced against it to the same extent as if such debts, liabilities and duties had been incurred or contracted by the Surviving Corporation. All corporate acts, plans, policies, agreements, arrangements, approvals and authorizations of BSI, its shareholders, Board of Directors and committees thereof, officers and agents which were valid and effective immediately prior to the Effective Time, shall be taken for all purposes as the acts, plans, policies, agreements, arrangements, approvals and authorizations of Basin and shall be as effective and binding thereon as the same were with respect to BSI.

At the Effective Time, except as provided elsewhere in this Plan, the officers of Basin shall become the officers of the Surviving Corporation to hold the positions in the Surviving Corporation to which they have been elected as officers of Basin and to serve in accordance with the bylaws of the Surviving Corporation.

At the Effective Time, the following persons shall become and constitute the board of directors, and the members thereof, of the Surviving Corporation until their respective successors shall have been duly elected and qualified, or until their earlier death, resignation or removal: Michael S. Smith, Arthur L. Angeli, David M. Blandford, J. Paul Hellstrom, Melvin O. Glerup, Larry D. Unruh, and Michael A. Nicolais.

4. **Further Assurances.** From time to time, as and when required by Basin, or by its successors and assigns, there

shall be executed and delivered on behalf of BSI such deeds and other instruments, and there shall be taken or caused to be taken by it all such further and other action, as shall be appropriate or necessary in order to vest, perfect or confirm, of record or otherwise, in Basin the title to and possession of all property, interests, assets, rights, privileges, immunities, powers, franchises and authority of BSI, and otherwise to carry out the purposes of this Plan, and the officers and directors of Basin are fully authorized in the name and on behalf of BSI or otherwise, to take any and all such action and to execute and deliver any and all such deeds and other instruments.

5. **Cancellation of Common Stock.** The 1,000 shares of BSI Common Stock presently issued in the name of Basin shall be cancelled and retired and no shares or other security shall be issued in respect thereof.

6. **Amendment.** Subject to applicable law, this Plan may be amended, modified or supplemented by the board of directors of Basin at any time prior to the Effective Time.

7. **Abandonment.** At any time prior to the Effective Time, this Plan may be terminated and the Merger may be abandoned by the board of directors of Basin, if circumstances arise which, in the opinion of the board of directors of Basin, make the Merger inadvisable.

8. **Service of Process.** The Surviving Corporation, from and after the Effective Time, agrees that it may be sued and served with process in the State of Colorado at 370 17th Street, Suite 1800, Denver, Colorado 80202, to the attention of Howard L. Boigon, Vice-President - General Counsel and Secretary, in any proceeding for the enforcement of any obligation of BSI.

9. **Governing Law.** This Plan shall be governed by and construed in accordance with the laws of the State of Delaware.

IN WITNESS WHEREOF, Basin has caused this Plan to be signed by its duly authorized officers as of the date first above written.

ATTEST:

BASIN EXPLORATION, INC., a  
Delaware corporation

By Howard L. Boigon  
Howard L. Boigon, Secretary

By Michael S. Smith  
Michael S. Smith, President

# United States Department of the Interior

## BUREAU OF LAND MANAGEMENT

Utah State Office  
P.O. Box 45155  
Salt Lake City, Utah 84145-0155

IN REPLY REFER TO:  
3100  
SL-067691A et al  
(UT-923)

**MAY 15 1995**

### NOTICE

Basin Exploration, Inc. : Oil and Gas  
370 17th Street, Suite 1800 : SL-067691A et al  
Denver, Colorado 80202 :

#### Name Change Recognized Mergers Recognized

Acceptable evidence has been filed in this office concerning the merger of Basin Energy, Inc., into Sterling Energy Corporation, which became Basin Sterling, Inc. Basin Sterling, Inc. then merged into Basin Exploration, Inc. with Basin Exploration, Inc. being the surviving entity.

For our purposes, the merger of Basin Sterling, Inc. into Basin Exploration, Inc. is recognized effective November 23, 1994.

The following lease files have been noted to reflect the above changes.

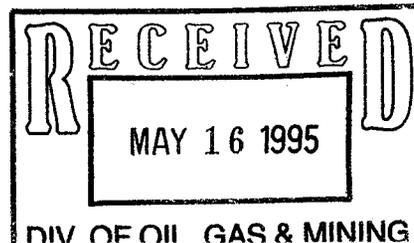
|                                     |  |
|-------------------------------------|--|
| SL-067691A                          | U-01058                                    |
| SL-067700A                          | <u>U-01890</u> <i>Recapture Creek Unit</i> |
| SL-067706A                          | U-23147                                    |
| SL-067710A                          | U-37841                                    |
| <u>SL-071403A</u> <i>Bluff Unit</i> | UTU-68666                                  |
| SL-071404A                          | UTU-68667                                  |

A rider has been issued for Sterling Energy Corporation, Inc. Nationwide Bond No. 7525071 (BLM Bond No. CO0944) changing the name of the Principal to Basin Exploration, Inc., and Basin Operating Company.

**/s/ Robert Lopez**

Chief, Branch of Mineral  
Leasing Adjudication

bc: Moab District Office  
MMS-Data Management Division, MS 3113, P.O. Box 5860, Denver, CO 80217  
State of Utah, Attn: Lisha Cordova, Division of Oil, Gas, and Mining,  
3 Triad Center, Suite 350, Salt Lake City, Utah 84180-1204  
UT-920 (Teresa Thompson)



Division of Oil, Gas and Mining  
**OPERATOR CHANGE WORKSHEET**

|                          |
|--------------------------|
| 1- <del>UEP</del>        |
| 2- LWP 7-PL ✓            |
| 3- <del>DWS</del> 8-SJ ✓ |
| 4- VLG 9-FILE ✓          |
| 5- RJF ✓                 |
| 6- LWP ✓                 |

Attach all documentation received by the division regarding this change.  
 Initial each listed item when completed. Write N/A if item is not applicable.

- Change of Operator (~~well sold~~)       Designation of Agent  
 Designation of Operator       Operator Name Change ~~Only~~

The operator of the well(s) listed below has changed (EFFECTIVE DATE: 11-22-94)

TO (new operator) BASIN EXPLORATION INC  
 (address) 370 17TH ST STE 1800  
DENVER CO 80202  
JUDI ROYS  
 phone (303) 685-8000  
 account no. N5070 (4-26-95)

FROM (former operator) STERLING ENERGY CORP  
 (address) 1801 BROADWAY STE 600  
DENVER CO 80202  
 phone (303) 296-1908  
 account no. N5945

Well(s) (attach additional page if needed):  
 \*RECAPTURE CREEK UNIT  
 \*BLUFF UNIT

| Name:            | API:      | Entity: | Sec | Twp | Rng | Lease Type: |
|------------------|-----------|---------|-----|-----|-----|-------------|
| **SEE ATTACHED** | 037-15871 |         |     |     |     |             |
| Name:            | API:      | Entity: | Sec | Twp | Rng | Lease Type: |
| Name:            | API:      | Entity: | Sec | Twp | Rng | Lease Type: |
| Name:            | API:      | Entity: | Sec | Twp | Rng | Lease Type: |
| Name:            | API:      | Entity: | Sec | Twp | Rng | Lease Type: |
| Name:            | API:      | Entity: | Sec | Twp | Rng | Lease Type: |
| Name:            | API:      | Entity: | Sec | Twp | Rng | Lease Type: |

**OPERATOR CHANGE DOCUMENTATION**

- See 1. (Rule R615-8-10) Sundry or other legal documentation has been received from former operator (Attach to this form). *(Rec'd 12-1-94 / Articles of Merger)*
- See 2. (Rule R615-8-10) Sundry or other legal documentation has been received from new operator (Attach to this form). *(Rec'd 12-1-94)*
- See 3. The Department of Commerce has been contacted if the new operator above is not currently operating any wells in Utah. Is company registered with the state? (yes/no) no If yes, show company file number: #171609 (12-7-94) (cf. 1/3/95)
- See 4. (For Indian and Federal Wells ONLY) The BLM has been contacted regarding this change (attach Telephone Documentation Form to this report). Make note of BLM status in comments section of this form. Management review of Federal and Indian well operator changes should take place prior to completion of steps 5 through 9 below.
- See 5. Changes have been entered in the Oil and Gas Information System (Wang/IBM) for each well listed above. *(5-22-95)*
- See 6. Cardex file has been updated for each well listed above. *5-22-95*
- See 7. Well file labels have been updated for each well listed above. *5-22-95*
- See 8. Changes have been included on the monthly "Operator, Address, and Account Changes" memo for distribution to State Lands and the Tax Commission. *(5-22-95)*
- See 9. A folder has been set up for the Operator Change file, and a copy of this page has been placed there for reference during routing and processing of the original documents.

OPERATOR CHANGE WORKSHEET (CONTINUED) Initial each item when completed. Write N/A if item is not applicable.

### ENTITY REVIEW

- Y 1. (Rule R615-8-7) Entity assignments have been reviewed for all wells listed above. Were entity changes made? (yes/no) no (If entity assignments were changed, attach copies of Form 6, Entity Action Form).
- N/A 2. State Lands and the Tax Commission have been notified through normal procedures of entity changes.

### BOND VERIFICATION (Fee wells only)

- N/A 1. (Rule R615-3-1) The new operator of any fee lease well listed above has furnished a proper bond.
- Y 2. A copy of this form has been placed in the new and former operators' bond files.
- Y 3. The former operator has requested a release of liability from their bond (yes/no) Y. Today's date                      1995. If yes, division response was made by letter dated                      1995.

### LEASE INTEREST OWNER NOTIFICATION RESPONSIBILITY

- N/A 1. (Rule R615-2-10) The former operator/lessee of any fee lease well listed above has been notified by letter dated                      1995, of their responsibility to notify any person with an interest in such lease of the change of operator. Documentation of such notification has been requested.
- Y 2. Copies of documents have been sent to State Lands for changes involving State leases.

### FILMING

- Y 1. All attachments to this form have been microfilmed. Date: May 26 1995.

### FILING

- Y 1. Copies of all attachments to this form have been filed in each well file.
- Y 2. The original of this form and the original attachments have been filed in the Operator Change file.

### COMMENTS

950519 Basin Expl. Inc. / Judy Roys - Oper. of wells Basin Expl. Inc. Not Basin Opn. Co.  
(Corrects letter dated 11-30-94)

\* Indian lease wells, separate chg.

\* 950522 Sterling address updated to Sterling % Basin Expl. Inc. from Sterling % Trinity Petro. until final appr.

State of Delaware  
Office of the Secretary of State

PAGE 2

I, HARRIET SMITH WINDSOR, SECRETARY OF STATE OF THE STATE OF DELAWARE DO HEREBY CERTIFY THAT THE ATTACHED IS A TRUE AND CORRECT COPY OF THE CERTIFICATE OF FORMATION OF "STONE ENERGY, L.L.C." FILED IN THIS OFFICE ON THE FIRST DAY OF FEBRUARY, A.D. 2001, AT 3:30 O'CLOCK P.M.



*Harriet Smith Windsor*  
Harriet Smith Windsor, Secretary of State

2289801 8100V

AUTHENTICATION: 0950237

010053850

DATE: 02-01-01

CERTIFICATE OF FORMATION  
OF  
STONE ENERGY, L.L.C.

This Certificate of Formation, dated February 1, 2001, has been duly executed and is filed pursuant to Section 18-201 of the Delaware Limited Liability Company Act (the "Act") to form a limited liability company (the "Company") under the Act.

1. **Name.** The name of the Company is "Stone Energy, L.L.C."
2. **Registered Office; Registered Agent.** The address of the registered office required to be maintained by Section 18-104 of the Act is:

1209 Orange Street  
Wilmington, Delaware 19801

The name and address of the registered agent for service of process required to be maintained by Section 18-104 of the Act are:

The Corporation Trust Company  
1209 Orange Street  
Wilmington, Delaware 19801

3. **Effective Time.** The effective time of the formation of the Company contemplated hereby is February 1, 2001.

EXECUTED as of the date first written above.

  
\_\_\_\_\_  
Andrew L. Gates, III  
Authorized Person

State of Delaware  
Office of the Secretary of State

I, HARRIET SMITH WINDSOR, SECRETARY OF STATE OF THE STATE OF DELAWARE, DO HEREBY CERTIFY THE ATTACHED IS A TRUE AND CORRECT COPY OF THE CERTIFICATE OF CONVERSION OF "BASIN EXPLORATION, INC.", CHANGING ITS NAME FROM "BASIN EXPLORATION, INC." TO "STONE ENERGY, L.L.C.", FILED IN THIS OFFICE ON THE FIRST DAY OF FEBRUARY, A.D. 2001, AT 3:30 O'CLOCK P.M.



*Harriet Smith Windsor*  
Harriet Smith Windsor, Secretary of State

2289801 8100

AUTHENTICATION: 0958659

010060875

DATE: 02-06-01

CERTIFICATE OF CONVERSION  
OF  
BASIN EXPLORATION, INC.  
INTO  
STONE ENERGY, L.L.C.

February 1, 2001

UNDER SECTION 266 OF THE GENERAL CORPORATION LAW  
OF THE STATE OF DELAWARE AND SECTION 18-214 OF THE  
DELAWARE LIMITED LIABILITY COMPANY ACT

Basin Exploration, Inc., a corporation organized and existing under and by virtue of the General Corporation Law of the State of Delaware (the "Company"), DOES HEREBY CERTIFY THAT:

1. *Name of Corporation to be Converted.* The name of the Company immediately prior to conversion is Basin Exploration, Inc., and the name under which the Company was originally incorporated was Basin Exploration, Inc.

2. *Original Date and Jurisdiction of Incorporation.* The original certificate of incorporation of the Company was filed on March 2, 1992 with the Secretary of the State of Delaware.

3. *Name of Limited Liability Company.* The name of the limited liability company into which the Company will be converted is Stone Energy, L.L.C.

4. *Approval of Conversion.* This conversion has been approved in accordance with the provisions of Section 266 of the General Corporation Law of Delaware and Section 18-214 of the Delaware Limited Liability Company Act.

5. *Effective Time.* The effective time of the conversion of the Company to a limited liability company contemplated hereby shall be February 1, 2001.

IN WITNESS WHEREOF, the undersigned has executed this Certificate of Conversion as of the date first written above.

BASIN EXPLORATION, INC.

By: Andrew L. Gates, III  
Andrew L. Gates, III  
Attorney In Fact

**CERTIFICATE OF FORMATION  
OF  
STONE ENERGY, L.L.C.**

This Certificate of Formation, dated February 1, 2001, has been duly executed and is filed pursuant to Section 18-201 of the Delaware Limited Liability Company Act (the "Act") to form a limited liability company (the "Company") under the Act.

1. **Name.** The name of the Company is "Stone Energy, L.L.C."
2. **Registered Office; Registered Agent.** The address of the registered office required to be maintained by Section 18-104 of the Act is:

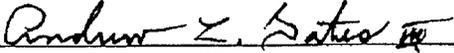
1209 Orange Street  
Wilmington, Delaware 19801

The name and address of the registered agent for service of process required to be maintained by Section 18-104 of the Act are:

The Corporation Trust Company  
1209 Orange Street  
Wilmington, Delaware 19801

3. **Effective Time.** The effective time of the formation of the Company contemplated hereby is February 1, 2001.

**EXECUTED** as of the date first written above.

  
\_\_\_\_\_  
Andrew L. Gates, III  
Authorized Person

**STATE OF UTAH**  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

FORM 9

5. LEASE DESIGNATION AND SERIAL NUMBER:

**SUNDRY NOTICES AND REPORTS ON WELLS**

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7. UNIT or CA AGREEMENT NAME:

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

8. WELL NAME and NUMBER:

1. TYPE OF WELL OIL WELL  GAS WELL  OTHER \_\_\_\_\_

9. API NUMBER:

2. NAME OF OPERATOR:

10. FIELD AND POOL, OR WILDCAT:

3. ADDRESS OF OPERATOR: CITY STATE ZIP PHONE NUMBER:

4. LOCATION OF WELL FOOTAGES AT SURFACE: COUNTY:

QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: STATE: **UTAH**

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

| TYPE OF SUBMISSION  | TYPE OF ACTION  |   |  |
|---|---|---|--|
| <input type="checkbox"/> NOTICE OF INTENT<br>(Submit in Duplicate)<br>Approximate date work will start:<br>_____          | <input type="checkbox"/> ACIDIZE                        | <input type="checkbox"/> DEEPEN                           | <input type="checkbox"/> REPERFORATE CURRENT FORMATION |
|   | <input type="checkbox"/> ALTER CASING                   | <input type="checkbox"/> FRACTURE TREAT                   | <input type="checkbox"/> SIDETRACK TO REPAIR WELL      |
|   | <input type="checkbox"/> CASING REPAIR                  | <input type="checkbox"/> NEW CONSTRUCTION                 | <input type="checkbox"/> TEMPORARILY ABANDON           |
|   | <input type="checkbox"/> CHANGE TO PREVIOUS PLANS       | <input checked="" type="checkbox"/> OPERATOR CHANGE       | <input type="checkbox"/> TUBING REPAIR                 |
|   | <input type="checkbox"/> CHANGE TUBING                  | <input type="checkbox"/> PLUG AND ABANDON                 | <input type="checkbox"/> VENT OR FLARE                 |
| <input checked="" type="checkbox"/> SUBSEQUENT REPORT<br>(Submit Original Form Only)<br>Date of work completion:<br>_____ | <input type="checkbox"/> CHANGE WELL NAME               | <input type="checkbox"/> PLUG BACK                        | <input type="checkbox"/> WATER DISPOSAL                |
|   | <input type="checkbox"/> CHANGE WELL STATUS             | <input type="checkbox"/> PRODUCTION (START/RESUME)        | <input type="checkbox"/> WATER SHUT-OFF                |
|   | <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS | <input type="checkbox"/> RECLAMATION OF WELL SITE         | <input type="checkbox"/> OTHER: _____                  |
|   | <input type="checkbox"/> CONVERT WELL TYPE              | <input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION |  |

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

Effective 2/1/01 Basin Exploration, Incorporated merged with Stone Energy. The new name is as follows:

Stone Energy, L.L.C.  
1670 Broadway, Suite 2800  
Denver, CO 80202

Blanket Bond #RLB0002054

Attached is the list of wells that will be effected in the State of Utah. Also attached for your files is a copy of the merger documentation.

Stone Energy, L.L.C.

Basin Exploration, Inc.

*Pat Jackson*  
Pat Jackson - Denver District  
Manager

*Gerald D. Gentry*  
Gerald D. Gentry Operations Manager

NAME (PLEASE PRINT) Terry L. Hoffman TITLE Engineering Technician

SIGNATURE *Terry L. Hoffman* DATE 2/1/01

(This space for State use only)

**RECEIVED**

MAR 05 2001

DIVISION OF  
OIL, GAS AND MINING

| <b>Lease #</b>       | <b>Well Name &amp; Number</b> | <b>API Number</b>     | <b>Field</b>       | <b>Legal Location</b>         | <b>County</b>       |
|----------------------|-------------------------------|-----------------------|--------------------|-------------------------------|---------------------|
| <del>UTU 75140</del> | <del>Bierstat #21-13</del>    | <del>4303731700</del> | <del>Wildcat</del> | <del>NE NW 13 T40S R22E</del> | <del>San Juan</del> |
| SL 067701            | Bluff #10                     | 4303715328            | Desert Creek       | SW SW 30-T39S-R23E            | San Juan            |
| SL 071403A           | Bluff #13-4                   | 4303730726            | Bluff              | NW SE 4-T40S-R23E             | San Juan            |
| SL 067701            | Bluff #16                     | 4303730989            | Desert Creek       | SW SE 29-T39S-R23E            | San Juan            |
| ML 2008              | Bluff #2                      | 4303716538            | Desert Creek       | SE NW 32-T39S-R23E            | San Juan            |
| SL 071403A           | Bluff #42-5                   | 4303730866            | Desert Creek       | SE NE 5-T40S-R23E             | San Juan            |
| SL 071403A           | Bluff #44-5                   | 4303715867            | Bluff              | SE SE 5-T40S-R23E             | San Juan            |
| 892000782A           | Bluff #9                      | 4303715327            | Desert Creek       | NE SE 30-T-39S-T23E           | San Juan            |
| 892000782A           | Bluff State #1                | 4303720236            | Desert Creek       | NW NW 32-T39S-R23E            | San Juan            |
| SL 067701            | Bluff Unit #14                | 4303730533            | Desert Creek       | NE SE 30-T-39S-T23E           | San Juan            |
| 1420603248           | Desert Creek #11-35           | 4303731806            | Wildcat            | NW NE 35-T41S-R23E            | San Juan            |
| 1420603248           | Desert Creek #2               | 4303715868            | Desert Creek       | SE SE 35-T41S-R23E            | San Juan            |
| 1420603270           | Navajo Tribal #23-1           | 4303710535            | Tohonadla          | NE NE 2-T42S-21E              | San Juan            |
| U-01890              | Recapture Creek #1            | 4303715871            | Recapture Creek    | SE SE 21-T40S-R23E            | San Juan            |
| U-01890              | Recapture Creek #2            | 4303730727            | Recapture Creek    | NW SW 21-T40S-R23E            | San Juan            |
| U-01890              | Recapture Creek #3            | 4303730926            | Recapture Creek    | NW SE 21-T40S-R23E            | San Juan            |
| 1420603229           | Tohonadla #1                  | 4303715872            | Tohonadla          | SW SE 35-T41S-R21E            | San Juan            |
| 1420603229           | Tohonadla #23-35              | 4303715874            | Tohonadla          | NE SW 35-T41S-R21E            | San Juan            |
| 1420603229           | Tohonadla #2-35               | 4303731568            | Tohonadla          | N2 S2 35-T41S-R21E            | San Juan            |



# United States Department of the Interior

## BUREAU OF LAND MANAGEMENT

Utah State Office  
P.O. Box 45155  
Salt Lake City, UT 84145-0155

In Reply Refer To:  
3100  
SL-067701 et al  
(UT-932)

MAR 23 2001

### NOTICE

Stone Energy, L.L.C. : Oil and Gas Leases  
1670 Broadway, #2800 :  
Denver, CO 80202 :

#### Name Change Recognized

Acceptable evidence has been received in this office concerning the change of name of Basin Exploration, Inc. to Stone Energy, L.L.C. on Federal oil and gas leases.

The oil and gas lease files identified on the enclosed exhibit have been noted as to the name change. The exhibit was compiled from a list of leases obtained from our automated records system. We have not abstracted the lease files to determine if the entity affected by the name change holds an interest in the leases identified nor have we attempted to identify leases where the entity is the operator on the ground maintaining no vested record title or operating rights interests. We are notifying the Minerals Management Service and all applicable Bureau of Land Management offices of the name change by a copy of this notice. If additional documentation for changes of operator are required by our Field Offices, you will be contacted by them.

Due to the name change, the name of the principal on oil and gas bond WY3181 is required to be changed from Basin Exploration, Inc. to Stone Energy, L.L.C. You may accomplish this change either by consent of the surety on the original bond or by a rider to the original bond. The rider should be submitted to the Wyoming State Office.

**ROBERT LOPEZ**

Robert Lopez  
Chief, Branch of  
Minerals Adjudication

Enclosure  
Exhibit of Leases

**RECEIVED**

MAR 27 2001

DIVISION OF  
OIL, GAS AND MINING

EXHIBIT A  
LEASES AFFECTED BY NAME CHANGE

SL-067701  
U-01058  
U-23147  
UTU-73064  
UTU-75000  
UTU-75501  
UTU-76304  
UTU-76957  
UTU-77299  
UTU-77536  
UTU-78227  
UTU-78522  
UTU-79007  
UTU-79131  
UTU-79148

SL-067710A  
U-01890  
U-37841  
UTU-73734  
UTU-75013  
UTU-76062  
UTU-76728  
UTU-77288  
UTU-77528  
UTU-78027  
UTU-78230  
UTU-78730  
UTU-79008  
UTU-79182  
U-63011X (Bluff Unit)

SL-071403A  
U-056794  
UTU-72671  
UTU-74461  
UTU-75140  
UTU-76303  
UTU-76865  
UTU-77289  
UTU-77529  
UTU-78226  
UTU-78441  
UTU-79006  
UTU-79009  
UTU-79183  
U-63020X (Recapture Creek)

cc: MMS-Reference D Branch, MS 3130, Box 5860, Denver, 80217  
State of Utah, DOGm, Attn: Jim Thompson (Ste. 1210), Box 145801, SLC, UT 84114-5801  
Teresa Thompson (UT-931)  
Rhonda Flynn/Angela Williams (UT-942)  
Vernal Field Office  
Moab Field Office  
Price Field Office  
San Juan Field Office

**OPERATOR CHANGE WORKSHEET**

**ROUTING**

|          |  |                     |
|----------|--|---------------------|
| 1. GLH   |  | 4-KAS ✓             |
| 2. CDW ✓ |  | 5- <del>STP</del> ✓ |
| 3. JLT   |  | 6-FILE              |

Enter date after each listed item is completed

Change of Operator (Well Sold)

Designation of Agent

**X Operator Name Change (Only)**

Merger

The operator of the well(s) listed below has changed, effective: **2/1/2001**

|                                  |
|----------------------------------|
| <b>FROM:</b> (Old Operator):     |
| BASIN EXPLORATION INC            |
| Address: 1670 BROADWAY, STE 2800 |
|                                  |
| DENVER, CO 80202                 |
| Phone: 1-(303)-685-8000          |
|                                  |
| Account No. N5070                |

|                                  |
|----------------------------------|
| <b>TO:</b> ( New Operator):      |
| STONE ENERGY LLC                 |
| Address: 1670 BROADWAY, STE 2800 |
|                                  |
| DENVER, CO 80202                 |
| Phone: 1-(303)-685-8000          |
|                                  |
| Account No. N1555                |

**CA No.**

**Unit: RECAPTURE**

**WELL(S)**

| NAME              | API NO.      | ENTITY NO. | SEC. TWN RNG | LEASE TYPE | WELL TYPE | WELL STATUS |
|-------------------|--------------|------------|--------------|------------|-----------|-------------|
| RECAPTURE CREEK 1 | 43-037-15871 | 6265       | 21-40S-23E   | FEDERAL    | OW        | P           |
|                   |              |            |              |            |           |             |
|                   |              |            |              |            |           |             |
|                   |              |            |              |            |           |             |
|                   |              |            |              |            |           |             |
|                   |              |            |              |            |           |             |
|                   |              |            |              |            |           |             |

**OPERATOR CHANGES DOCUMENTATION**

- (R649-8-10) Sundry or legal documentation was received from the **FORMER** operator on: 03/05/2001
- (R649-8-10) Sundry or legal documentation was received from the **NEW** operator on: 03/05/2001
- The new company has been checked through the **Department of Commerce, Division of Corporations Database** on: 03/28/2001
- Is the new operator registered in the State of Utah: YES Business Number: 4874937-0161
- If **NO**, the operator was contacted on: N/A
- Federal and Indian Lease Wells:** The BLM and or the BIA has approved the (merger, name change, or operator change for all wells listed on Federal or Indian leases on: 03/23/2001
- Federal and Indian Units:** The BLM or BIA has approved the successor of unit operator for wells listed on: 03/23/2001

8. **Federal and Indian Communization Agreements ("CA"):** The BLM or the BIA has approved the operator change for all wells listed involved in a CA on: N/A

9. **Underground Injection Control ("UIC") Prog:** The Division has approved UIC Form 5, **Transfer of Authority to Inject**, for the enhanced/secondary recovery unit/project for the water disposal well(s) listed on: N/A

---

**DATA ENTRY:**

1. Changes entered in the **Oil and Gas Database** on: 03/29/2001
2. Changes have been entered on the **Monthly Operator Change Spread Sheet** on: 03/29/2001
3. Bond information entered in RBDMS on: N/A
4. Fee wells attached to bond in RBDMS on: N/A

---

**STATE BOND VERIFICATION:**

1. State well(s) covered by Bond No.: N/A

---

**FEE WELLS - BOND VERIFICATION/LEASE INTEREST OWNER NOTIFICATION:**

1. (R649-3-1) The **NEW** operator of any fee well(s) listed has furnished a bond No: N/A
2. The **FORMER** operator has requested a release of liability from their bond on: N/A  
The Division sent response by letter on: N/A
3. (R649-2-10) The **FORMER** operator of the Fee wells has been contacted and informed by a letter from the Division of their responsibility to notify all interest owners of this change on: N/A

---

**FILMING:**

1. All attachments to this form have been **MICROFILMED** on: APR 25 2001

---

**FILING:**

1. **ORIGINALS/COPIES** of all attachments pertaining to each individual well have been filled in each well file on: \_\_\_\_\_

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**COMMENTS:**

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STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

FORM 9

**SUNDRY NOTICES AND REPORTS ON WELLS**

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

|   |  |  |
|---|--|--|
| 1. TYPE OF WELL<br>OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER _____ |  | 5. LEASE DESIGNATION AND SERIAL NUMBER:<br>U-01890           |
| 2. NAME OF OPERATOR:<br>Stone Energy, L.L.C. <i>N1555</i>   |  | 6. IF INDIAN, ALLOTTEE OR TRIBE NAME:<br>N/A                 |
| 3. ADDRESS OF OPERATOR:<br>1801 Broadway, St. 700 CITY Denver STATE CO ZIP 80202                              |  | 7. UNIT or CA AGREEMENT NAME:<br>89T0029170 <i>Recapture</i> |
| 4. LOCATION OF WELL<br>FOOTAGES AT SURFACE: 660FSL and 1980 FWL   |  | 8. WELL NAME and NUMBER:<br>Recapture Creek #1               |
| QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: SESE 21 40S 23E  |  | 9. API NUMBER:<br>4303715871                                 |
| COUNTY: San Juan  |  | 10. FIELD AND POOL, OR WILDCAT:<br>Recapture Creek           |
| STATE: UTAH   |  |  |

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

| TYPE OF SUBMISSION   | TYPE OF ACTION  |   |  |
|--|---|---|--|
| <input checked="" type="checkbox"/> NOTICE OF INTENT<br>(Submit in Duplicate)<br>Approximate date work will start: _____ | <input type="checkbox"/> ACIDIZE                        | <input type="checkbox"/> DEEPEN                           | <input type="checkbox"/> REPERFORATE CURRENT FORMATION                                       |
| <input type="checkbox"/> SUBSEQUENT REPORT<br>(Submit Original Form Only)<br>Date of work completion: _____              | <input type="checkbox"/> ALTER CASING                   | <input type="checkbox"/> FRACTURE TREAT                   | <input type="checkbox"/> SIDETRACK TO REPAIR WELL  |
|  | <input type="checkbox"/> CASING REPAIR                  | <input type="checkbox"/> NEW CONSTRUCTION                 | <input type="checkbox"/> TEMPORARILY ABANDON   |
|  | <input type="checkbox"/> CHANGE TO PREVIOUS PLANS       | <input type="checkbox"/> OPERATOR CHANGE                  | <input type="checkbox"/> TUBING REPAIR   |
|  | <input type="checkbox"/> CHANGE TUBING                  | <input type="checkbox"/> PLUG AND ABANDON                 | <input type="checkbox"/> VENT OR FLARE   |
|  | <input type="checkbox"/> CHANGE WELL NAME               | <input type="checkbox"/> PLUG BACK                        | <input type="checkbox"/> WATER DISPOSAL  |
|  | <input type="checkbox"/> CHANGE WELL STATUS             | <input type="checkbox"/> PRODUCTION (START/RESUME)        | <input type="checkbox"/> WATER SHUT-OFF  |
|  | <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS | <input type="checkbox"/> RECLAMATION OF WELL SITE         | <input checked="" type="checkbox"/> OTHER: <u>Transfer of Interest/</u><br><u>Operations</u> |
|  | <input type="checkbox"/> CONVERT WELL TYPE              | <input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION |  |

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

Effective June 1, 2004, Stone Energy, L.L.C. is transferring title interest and operations of this well to Matrix Production Company, whose address is 5725 Commonwealth Blvd., Sugar Land, Texas 77479, Tele: 281-265-1212. The Matrix bonding is as follows: (1) BIA lands V.S. Specialty Insurance Company Bond No. B 001183 for \$130,000.00 (2) State of Utah Trust lands, V.S. Specialty Insurance Company Bond No. B 001043 for \$ 10,000.00 and (3) BLM lands V.S. Specialty Insurance Company Bond No. B 001041 for \$ 25,000.00.

MATRIX PRODUCTION COMPANY *N2660*

By: *L. W. Lathrop* Title: Vice President  
(Signature)  
Name: Larry W. Lathrop Date: 6/30/2004

---

NAME (PLEASE PRINT) Michael E. Cuba TITLE Denver District Manager  
SIGNATURE *Michael E. Cuba* DATE 6/30/2004

(This space for State use only)

APPROVED 10127104  
*E Russell*  
Division of Oil, Gas and Mining  
Earlene Russell, Engineering Technician

(See Instructions on Reverse Side)

RECEIVED  
OCT 04 2004

DIV. OF OIL, GAS & MINING

**OPERATOR CHANGE WORKSHEET**

|                |  |
|----------------|--|
| <b>ROUTING</b> |  |
| 1. GLH         |  |
| 2. CDW         |  |
| 3. FILE        |  |

**X Change of Operator (Well Sold)**

Designation of Agent/Operator

Operator Name Change

Merger

|  |   |
|--|---|
| The operator of the well(s) listed below has changed, effective: <u>TOHONADLA</u> <b>6/1/2004</b>                                  |   |
| <b>FROM:</b> (Old Operator):<br>N1555-Stone Energy, LLC<br>1801 Broadway, Suite 700<br>Denver, CO 80202<br>Phone: 1-(303) 685-8000 | <b>TO:</b> ( New Operator):<br>N2660-Matrix Production Company<br>5725 Commonwealth Blvd<br>Sugar Land, TX 77479<br>Phone: 1-(281) 265-1212 |

|               |              |           |
|---------------|--------------|-----------|
| <b>CA No.</b> | <b>Unit:</b> | see below |
|---------------|--------------|-----------|

| <b>WELL(S)</b>        |     |      |      |            |           |            |           |             |
|-----------------------|-----|------|------|------------|-----------|------------|-----------|-------------|
| NAME                  | SEC | TWN  | RNG  | API NO     | ENTITY NO | LEASE TYPE | WELL TYPE | WELL STATUS |
| BLUFF 16              | 29  | 390S | 230E | 4303730989 | 632       | Federal    | OW        | P           |
| BLUFF ST 2            | 32  | 390S | 230E | 4303716538 | 629       | State      | OW        | S           |
| RECAPTURE CREEK 2     | 21  | 400S | 230E | 4303730727 | 6255      | Federal    | OW        | P           |
| RECAPTURE CREEK 3     | 21  | 400S | 230E | 4303730926 | 8450      | Federal    | OW        | S           |
| TOHONADLA 1           | 35  | 410S | 210E | 4303715872 | 11202     | Indian     | OW        | P           |
| TOHONADLA 23-35       | 35  | 410S | 210E | 4303715874 | 11202     | Indian     | OW        | P           |
| TOHONADLA 2-35        | 35  | 410S | 210E | 4303731568 | 11202     | Indian     | OW        | P           |
| DESERT CREEK 2        | 35  | 410S | 230E | 4303715868 | 6270      | Indian     | OW        | P           |
| NAVAJO TR 23-1        | 02  | 420S | 210E | 4303715540 | 6230      | Indian     | OW        | P           |
| <b>RECAPTURE UNIT</b> |     |      |      |            |           |            |           |             |
| RECAPTURE CREEK 1     | 21  | 400S | 230E | 4303715871 | 6265      | Federal    | OW        | S           |
| <b>BLUFF UNIT</b>     |     |      |      |            |           |            |           |             |
| BLUFF U 9             | 30  | 390S | 230E | 4303715327 | 625       | Federal    | OW        | S           |
| BLUFF U 14            | 30  | 390S | 230E | 4303730533 | 625       | Federal    | OW        | P           |
| BLUFF U ST 1          | 32  | 390S | 230E | 4303720236 | 625       | State      | OW        | S           |
| BLUFF 13-4            | 04  | 400S | 230E | 4303730726 | 11146     | Federal    | OW        | P           |
| BLUFF 44-5            | 05  | 400S | 230E | 4303715867 | 11146     | Federal    | OW        | P           |
| BLUFF 42-5            | 05  | 400S | 230E | 4303730866 | 11146     | Federal    | OW        | P           |

**OPERATOR CHANGES DOCUMENTATION**

Enter date after each listed item is completed

- (R649-8-10) Sundry or legal documentation was received from the **FORMER** operator on: 10/4/2004
- (R649-8-10) Sundry or legal documentation was received from the **NEW** operator on: 10/4/2004
- The new company was checked on the **Department of Commerce, Division of Corporations Database** on: 8/26/2004
- Is the new operator registered in the State of Utah: YES Business Number: 5681279-0143
- If **NO**, the operator was contacted on: \_\_\_\_\_
- 6a. (R649-9-2)Waste Management Plan has been received on: \_\_\_\_\_
- 6b. Inspections of LA PA state/fee well sites complete on: n/a

7. **Federal and Indian Lease Wells:** The BLM and or the BIA has approved the merger, name change, or operator change for all wells listed on Federal or Indian leases on: BLM not yet BIA not yet

8. **Federal and Indian Units:**

The BLM or BIA has approved the successor of unit operator for wells listed on: not yet

9. **Federal and Indian Communization Agreements ("CA"):**

The BLM or BIA has approved the operator for all wells listed within a CA on: n/a

10. **Underground Injection Control ("UIC")** The Division has approved UIC Form 5, **Transfer of Authority to Inject**, for the enhanced/secondary recovery unit/project for the water disposal well(s) listed on: n/a

**DATA ENTRY:**

1. Changes entered in the **Oil and Gas Database** on: 10/27/2004
2. Changes have been entered on the **Monthly Operator Change Spread Sheet** on: 10/27/2004
3. Bond information entered in RBDMS on: 10/27/2004
4. Fee/State wells attached to bond in RBDMS on: 10/27/2004
5. Injection Projects to new operator in RBDMS on: n/a
6. Receipt of Acceptance of Drilling Procedures for APD/New on: n/a

**FEDERAL WELL(S) BOND VERIFICATION:**

1. Federal well(s) covered by Bond Number: B001041

**INDIAN WELL(S) BOND VERIFICATION:**

1. Indian well(s) covered by Bond Number: B001183

**FEE & STATE WELL(S) BOND VERIFICATION:**

1. (R649-3-1) The **NEW** operator of any fee well(s) listed covered by Bond Number B001044 and B001045

2. The **FORMER** operator has requested a release of liability from their bond on: held at TLA

The Division sent response by letter on: n/a

**LEASE INTEREST OWNER NOTIFICATION:**

3. (R649-2-10) The **FORMER** operator of the fee wells has been contacted and informed by a letter from the Division of their responsibility to notify all interest owners of this change on: n/a

**COMMENTS:**

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UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
OMB No. 1004-0137  
Expires: March 31, 2007

**SUNDRY NOTICES AND REPORTS ON WELLS**  
*Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.*

**SUBMIT IN TRIPLICATE- Other instructions on reverse side.**

1. Type of Well  
 Oil Well     Gas Well     Other

2. Name of Operator    **Matrix Production Company**

3a. Address    **5725 Commonwealth Blvd, Sugar Land, TX 77479**

3b. Phone No. (include area code)    **281-265-1212**

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)  
**660' FSL & 1980' FWL (SE/SW)  
 Sec 21 - T40S - R23E**

5. Lease Serial No.  
**UT - 01890**

6. If Indian, Allottee or Tribe Name

7. If Unit or CA/Agreement, Name and/or No.  
**8910029170**

8. Well Name and No.  
**Recapture Creek #1**

9. API Well No.  
**430-37-15871**

10. Field and Pool, or Exploratory Area  
**Recapture Creek**

11. County or Parish, State  
**San Juan, UT**

12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

| TYPE OF SUBMISSION                                   | TYPE OF ACTION                                    |   |  |   |
|--|---|---|--|---|
| <input checked="" type="checkbox"/> Notice of Intent | <input type="checkbox"/> Acidize                  | <input type="checkbox"/> Deepen           | <input type="checkbox"/> Production (Start/Resume) | <input type="checkbox"/> Water Shut-Off   |
| <input type="checkbox"/> Subsequent Report           | <input type="checkbox"/> Alter Casing             | <input type="checkbox"/> Fracture Treat   | <input type="checkbox"/> Reclamation               | <input type="checkbox"/> Well Integrity   |
| <input type="checkbox"/> Final Abandonment Notice    | <input checked="" type="checkbox"/> Casing Repair | <input type="checkbox"/> New Construction | <input type="checkbox"/> Recomplete                | <input checked="" type="checkbox"/> Other |
|  | <input type="checkbox"/> Change Plans             | <input type="checkbox"/> Plug and Abandon | <input type="checkbox"/> Temporarily Abandon       |   |
|  | <input type="checkbox"/> Convert to Injection     | <input type="checkbox"/> Plug Back        | <input type="checkbox"/> Water Disposal            |   |

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

The subject well developed a hole in the casing that will be isolated and repaired by method of squeeze cementing. Once repaired, it is proposed that additional perforations be added to the currently producing Lower Ismay interval at 5332-5346. The well currently produces from perforations 5354-5358 and 5362-5375 (Lower Ismay) and 5492-5497 (Desert Creek).

*verbal approval 1-21-05  
ERIC JONES / BLM MOAB OFFICE*

COPY SENT TO OPERATOR  
Date: 1-31-05  
Initials: LHO

14. I hereby certify that the foregoing is true and correct  
 Name (Printed/Typed)    **Fred C. Bryla**    Title    **Vice President**

Signature    *F. Bryla*    Date    **1-10-05**

**THIS SPACE FOR FEDERAL OR STATE OFFICE USE**

Approved by \_\_\_\_\_ Title \_\_\_\_\_ Date \_\_\_\_\_

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office \_\_\_\_\_

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations or to any matter within its jurisdiction.

(Instructions on page 2)

Utah Division of  
Oil, Gas and Mining

Date: **1/28/05**

By: *[Signature]*

Case 85-5

Federal Approval Of This  
Action Is Necessary

RECEIVED  
**JAN 27 2005**  
DIV OF OIL, GAS & MINING

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

**SUNDRY NOTICES AND REPORTS ON WELLS**

*Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.*

5. Lease Serial No.

**UT - 01890**

6. If Indian, Allottee or Tribe Name

7. If Unit or CA/Agreement, Name and/or No.

**8910029170**

8. Well Name and No.

**Recapture Creek #1**

9. API Well No.

**430-37-15871**

10. Field and Pool, or Exploratory Area

**Recapture Creek**

11. County or Parish, State

**San Juan, UT**

**SUBMIT IN TRIPLICATE- Other instructions on reverse side.**

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Oil Well     Gas Well     Other

2. Name of Operator

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Sec 21 - T40S - R23E**

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| <input type="checkbox"/> Final Abandonment Notice     | <input checked="" type="checkbox"/> Casing Repair | <input type="checkbox"/> New Construction | <input checked="" type="checkbox"/> Recomplete     | <input type="checkbox"/> Other _____    |
|   | <input type="checkbox"/> Change Plans             | <input type="checkbox"/> Plug and Abandon | <input type="checkbox"/> Temporarily Abandon       |   |
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**Attempt to squeeze HIC at 2233. Found 5 1/2" production casing partially collapsed @ 2233'. Mill out collapse and set CIBP at 5349'. Run 5320' 4" 9.5# J-55 flush joint csg liner and cmt to surface with 235 sx. Drill out to 5349'. Perf Ismay 5332-5344' 2spf & acidize w/ 2000 gal 20% Hcl. Test 11.4 Bopd, 8 Mcfd, 1 Bwpd. Drill out CIBP and clean out well to 5530'. Acidize existing Imay and Desert Creek perms 5354-5497' OA w/ 1500 gal 20% Hcl. Return all zones to production. Current avg. production 21.3 Bopd, 34.6 Mcfd, 1.7 Bwpd.**

RECEIVED

JUN 13 2005

DIV. OF OIL, GAS & MINING

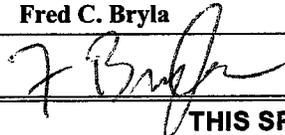
14. I hereby certify that the foregoing is true and correct

Name (Printed/Typed)

**Fred C. Bryla**

Title **Vice President**

Signature



Date

**6-10-05**

**THIS SPACE FOR FEDERAL OR STATE OFFICE USE**

Approved by \_\_\_\_\_

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Title

Date

Office

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