

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Form approved.
Budget Bureau No. 42-R1424.

5. LEASE DESIGNATION AND SERIAL NO.

NM-0392082-A

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Union "B" Federal

9. WELL NO.

1

10. FIELD AND POOL, OR WILDCAT

Undesignated
Jennings Delaware Assoc.

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

Sec. 4, T26S, R32E

Unit Letter C

12. COUNTY OR PARISH 13. STATE

Lea

NM

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

2. NAME OF OPERATOR

Discovery Operating, Inc.

3. ADDRESS OF OPERATOR

800 North Marienfeld, Suite 100, Midland, Texas 79701

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

Unit Letter C, 330' from the North line and 1980' from the
West line, Section 4, Township 26 South, Range 32 East

14. PERMIT NO.

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

3309 GR

16.

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

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF

FRACTURE TREAT

SHOOT OR ACIDIZE

REPAIR WELL

(Other)

PULL OR ALTER CASING

MULTIPLE COMPLETE

ABANDON*

CHANGE PLANS

SUBSEQUENT REPORT OF:

WATER SHUT-OFF

FRACTURE TREATMENT

SHOOTING OR ACIDIZING

(Other)

REPAIRING WELL

ALTERING CASING

ABANDONMENT*

Drilling Operations

(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.)*

SEE ATTACHED

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

SIGNED

Jeffrey Sparks

Jeffrey Sparks

TITLE

Engineer

DATE

1/6/88

(This space for Federal or State office use)

APPROVED BY

CONDITIONS OF APPROVAL, IF ANY:

TITLE

DATE

UNION "B" FEDERAL #1
330' FNL & 1980' FWL OF UNIT C
SECTION 4, T-26-S, R-32-E
GROUND ELEVATION = 3309'
Lea County, New Mexico

Saturday, November 21, 1987

Spud @ 1:30 A.M.

Depth: 598' (598') Drlg.
Mud Data: Spud Mud
Bit Data: #1 12 $\frac{1}{4}$ " Hughes R-1 in @ 0' (made 598' in 5 $\frac{1}{2}$ hrs.)
WOB: All
Deviation Survey: $\frac{1}{2}$ ° @ 487'.
Time Distribution: 5 $\frac{1}{2}$ hrs. Drlg., 17 $\frac{1}{2}$ hrs. move in, rig up
and repair rig.
Daily Cost: \$11,785.00
Accumulative Cost: \$11,785.00

Sunday, November 22, 1987

Day 2

Depth: 920' (322') WOC
Bit Data: #1 12 $\frac{1}{4}$ " Hughes R-1 in @ 0' (made 920' in 17 hrs.)
WOB: All
Deviation Survey: $\frac{1}{2}$ ° @ 487', 1° @ 920'
Time Distribution: 11 $\frac{1}{2}$ hrs. Drlg., 3/4 hrs. rig repair, $\frac{1}{2}$ hr.
deviation survey, trip out of hole 1 3/4 hrs.
running casing 5 3/4 hrs., 1 $\frac{1}{2}$ hrs. cmt.
2 $\frac{1}{2}$ WOC.
Materials: 12 sx paper, 28 sx Fresh water gel, 12 sx lime, 13
lds Brine water, 9 lds. fresh water.
Misc.: Run 23 jts 8 5/8", 23# and 24# set @ 915'. Cmt'd. w/200
sx lite w/6% gel, 3% salt & $\frac{1}{4}$ # sx flocele, 300 sx C w/2%
CaCl₂. Circulating 100 sx cmt.
Daily Cost: \$17,190.00
Accumulative Cost: \$28,975.00

Monday, November 23, 1987

Day 3

Depth: 1354' (434') Drlg.
Formation: Anhydrite and salt
Mud Data: Wt. 9.4
PH: 11
Bit Data: #2 7 7/8" Security S86F in @920' (made 434' in 11 3/4hrs)
WOB: 15,000 - 30,000#
Time Distribution: 1 $\frac{1}{2}$ hrs. WOC, 1 3/4 hrs. rig repair, 4 3/4 hrs.
Nipple up, 1 hr. trip in hole, $\frac{1}{2}$ hr. test BOP
to 1000 psi, 2 3/4 hr. drlg. cmt. 11 3/4 hrs.
drlg.
Materials: 7 lds bring, 3 lds fresh water, no mud.
PP: 550 SPM: 60 RPM: 60
Daily Cost: \$4,755.00
Accumulative Cost: \$33,630.00

Tuesday, November 24, 1987

Day 4

Depth: 2019' (665') Drlg.
Formation: Anhydrite and salt
Mud Data: Wt. 10.1
PH: 9.0
Viscosity: 28
Bit Data: #2 7 7/8" Security S86F in @920' (made 1099' in 33 $\frac{1}{4}$ hrs.)
WOB: 25,000
Deviation Survey: 1 $\frac{1}{2}$ ° @ 1411', 1 $\frac{1}{4}$ ° @ 1503', 1 $\frac{1}{2}$ ° 1595', 1 3/4°
@ 1686', 2° @ 1779', 2 $\frac{1}{4}$ ° @ 1931'.
Time Distribution: 21 $\frac{1}{2}$ hrs. drlg., 2 hrs. surveys, $\frac{1}{2}$ hr. rig repair.
Materials: 2 lds. brine, no mud.
PP: 550 SPM: 60 RPM: 65
Daily Cost: \$5,900.00
Accumulative Cost: \$39,530.00

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Wednesday, November 25, 1987

Day 5

Depth: 2764' (745') Drlg.

Formation: Anhydrite

Mud Data: Wt. 10

PH: 8

Viscosity: 28

Bit Data: #2 7 7/8" Security S86F in @ 920' (made 1844' in
55 3/4 hrs.) WOB: 30,000

Deviation Survey: 2° @ 2244', 2½° @ 2737'

Time Distribution: 22½ drlg., 1 hr. rig repair, ½ deviation survey.

Materials: 1 load brine

Clorides: 196,000

PP: 800

SPM: 60

RPM: 60

Daily Cost: \$6,590.00

Accumulative Cost: \$46,120.00

Thursday, November 26, 1987

Day 6

Depth: 3259' (495') Drlg.

Formation: Anhydrite and sand

Mud Data: W. 10±

PH: 8

Viscosity: 28

Bit Data: #2 7 7/8" Security S86F in @ 920' (made 2339' in 74½ Hrs)
WOB: 8,000

Deviation Survey: 2½° @ 2737', 3° @ 3228'

Time Distribution: 18 3/4 hrs. Drlg., ½ hr. lay down 4 jts. pipe,
3 3/4 hrs. start pump motors, 1 hr. surveys.

Materials: 6 sx lime, 1 load brine

PP: 700 SPM: 60 RPM: 65

Daily Cost: \$4,480.00

Accumulative Cost: \$50,600.00

Friday, November 27, 1987

Day 7

Depth: 3688' (429) Drlg.

Formation: Anhydrite

Mud Data: 10

PH: 10.5

Viscosity: 29

Bit Data: #2 7 7/8" Security S86F in @ 920' (made 2768' in 96 3/4
hrs.) WOB: 30,000

Deviation Survey: 2½° @ 3476'

Time Distribution: 22½ hrs. Drlg., 3/4 hr starting pumps, ½ hr.
service rig, ½ hr. survey

Materials: No water, no mud

Clorides: 192,000; Ca- 3800, trace sand

PP: 650 SPM: 60 RPM: 65

Daily Cost: \$3,700.00

Accumulative Cost: \$54,300.00

Saturday, November 28, 1987

Day 8

Depth: 4336' (648) Drlg. 5-7 MPF

Formation: Anhydrite and sand

Mud Data: 10.2 Filtrate 20 Cat 3800

PH: 9 Wt. 20

Viscosity: 34

Bit Data: #2 7 7/8" Security S86F in @ 920' (made 2416' in 119 3/4
hrs.) WOB: 15,000-30,000

Deviation Survey: 2° @ 3971'

Time Distribution: 23 Drlg., ½ hr. service rig, ½ hr. dev. survey

Materials: 150 sx salt gel, 40 sx starch, 3 formaldehyde, 1 ld brine.

Clorides: 192,000 Total hardness: 6000

PP: 650 SPM: 60 RPM: 60

Daily Cost: \$7,660.00

Accumulative Cost: \$61,960.00

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Sunday, November 29, 1987

Day 9

Depth: 4504' (168') Drlg.

Formation: Anhydrite, shale and sand

Mud Data: 10.2

PH: 10

Viscosity: 35

Bit Data: #2 7 7/8" Security S86F in @ 920' (made 3584' in 142.75
hrs.) WOB: 30,000#

Deviation Survey: 2° @ 4459'

Time Distribution: 23 hrs. drlg., 1/4 hr. service rig, 3/4 hr. survey

Materials: 1 load fresh water, no mud

Clorides: 192,000

PP: 650 SPM: 60 RPM: 60

Daily Cost: \$1,960.00

Accumulative Cost: \$63,920.00

Monday, November 30, 1987

Day 10

Depth: 4575' (71') DST

Formation: Sand

Mud Data: 10.2

PH: 10

Viscosity: 36

Bit Data: #2 7 7/8" Security S86F in @ 920' (made 3655' in 147
3/4 Hrs.)

Time Distribution: 5 hrs. drlg., 4 hrs. circulating and condition
mud, 6 hrs. trip out of hole, 2 1/2 hrs. tally and
pick up DST tools, 5 1/2 hrs. trip in hole for
DST, 1 hr. rig up surface equipment.

Materials: 15 sx salt gel, 5 sx starch, no water hauled

Daily Cost: \$2,805.00

Accumulative Cost: \$66,725.00

Tuesday, December 1, 1987

Day 11

Depth: 4575' Trip out of hole

Mud Data: 10.2

Viscosity: 36

Materials: None

Clorides: 199,000

Time Distribution: 4 1/2 hrs. DST, 12 hrs. tripping, 1 hr. rig repair,
3 1/2 hrs. laying down tools, 3 hrs. circulating.

Daily Cost: \$5,075.00

Accumulative Cost: \$71,800.00

Wednesday, December 2, 1987

Day 12

Depth: 4575' TD

Time Distribution: 3 1/2 hrs. trip out, 4 1/2 hrs. logging, 3/4 hrs.
tally casing, 1 hr. ND BOP, 1/2 hr. NJ casing
head, 6 hrs. run casing, 1 hr. cement.

Materials: None

Miscellaneous: Run 109 joints 4 1/2" casing to TD and cement w/210
sacks H 50/50 Poz. w/2% gel, 5# salt and 1/4# Cello-
seal per sack... Rig released @ 2:00 A.M.

Daily Cost: 17,975.00

Accumulative Cost: 89,775.00