

Drawn by
Artesia, NM

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN
(Other instructions on re-
verse side)

Form approved
Budget Bureau No. 48-21494

5. LEASE IDENTIFICATION AND SERIAL NO.

NM 0560353

6. IF INDIAN, ALLOTTEE OR TRUST NAME

7. UNDER LEASING NAME

8. FARM OR LEASE NAME

Mable Hale Federal

9. WELL NO.

2

10. FIELD AND FANT. NO. WELL NO.

Undesignated Bone Springs

11. SEC. T. R. W. OF LAND

Sec. 11-19S-30E

12. COUNTY OF LEASE

Eddy NM

13. COUNTY OF LEASE

Eddy 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
Great Western Drilling Company

3. ADDRESS OF OPERATOR
P.O. Box 1659, Midland, TX 79702

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

860' FNL & 1650' FWL, Sec. 11, T-19-S, R-30-E

14. RECEIVED BY

MAY 03 1984

15. ELEVATIONS (Show whether to, from, etc.)

3,395.4' GL, 3,411.60' KBM

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

O. C. D. NOTICE OF INTENTION TO:

TEST WELL

FRACTURE TEST

SHOOT OR ACIDIZE

REPAIR WELL

(Other)

FULL OR ALTER CASING

MULTIPLE COMPLETS

ABANDON

CHANGE PLANS

WATER SHUT-OFF

FRACTURE TREATMENT

SHOOTING OR ACIDIZING

(Other) Process of Completing

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

REPAIRING WELL

ALTERING CASING

ABANDONMENT

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

3/26/84: SITP 180 psi, S.I. 37 hrs. POH w/packer. Perforated 1st Bone Springs w/3-1/8" Csg guns, SSB-JRC charges, select fire, penetration 19.36", .38" dia. holes & 22 gram charges. 2 Perforated from 8,398' to 8,591' w/58 holes.

3/27/84: Ran 4 1/2" Baker Retrievable BP & Retrieveomatic Pkr. on 2-3/8" tbg. Set BP @ 8,718' & Pkr. @ 8,590'. Spotted 5 bbls. acid & pulled pkr to 8,318' & set pkr. Acidized 1st Bone Springs w/4,000 gals. 15% HCL, containing 8 gals. I-10, 40 gals. C-3L, 12 gals. M55-4, 8 gals. LFA-71 & 116-7/8" ball sealers. Formation broke @ 2,500 psi. Max. treating press. 5,400 psi, Min. 3,100 psi, avg. 4,000 psi @ an avg. rate of 4.7 BPM. ISDP 1,600 psi, 15 min. 450 psi, 20 min. vacuum. Total load to recover: 132 bbls. Swabbed 4 1/2 hrs, fluid level @ 4,600', last swab run cutting 6-8% oil. Recovered 78 bbls. fluid, lack 54 bbls. recovering load.

3/28/84: SITP 200 psi, S.I. 13 hrs. Swabbed 5 hrs., recovered 62 bbls. fluid & lowered fluid level to 4,800'. Recovery was 15% oil, some emulsion & clear water. Lack 8 bbls. recovering load. Unseated pkr & swabbed 71 bbls. in 4 1/2 hrs. Fluid level @ 4,500'-4,700'. Pulled swab line into @ lubricator. Pulled tbg & recovered swab.

3/29/84: Ran tbg open ended w/seating nipple to 8,378'. Swabbed 5 1/2 hrs & recovered 93 bbls. fluid cutting 10-15% oil.

3/30/84: SITP 120 psi, S.I. 13 hrs. Fluid level @ 3,200'. Made 11 swab runs & lowered

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

SIGNED

M. B. Myer

TITLE

Ass't. to Gen. Supt.

DATE

4/24/84

(Cont.)

(This space for Federal or State office use)

APPROVED BY

CONDITIONS OF APPROVAL, IF ANY:

TITLE

ACCEPTED FOR RECORD

RP

MAY 1 1984

*See Instructions on Reverse Side

ROSWELL, NEW MEXICO

Instructions

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Item 17: Proposals to abandon a well and subsequent reports of abandonment should include such special information as is required by local Federal and/or State offices. In addition, such proposals and reports should include reasons for the abandonment; data on any former or present productive zones, or other zones with present significant fluid contents not sealed off by cement or otherwise; depths (top and bottom) and method of placement of cement plugs; mud or other material placed below, between and above plugs; amount, size, method of parting of any casing, liner or tubing pulled and the depth to top of any left in the hole; method of closing top of well; and date well site conditioned for final inspection looking to approval of the abandonment.

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEYSUBMIT IN
(Other Inst.
verse side)APPLICATION
FORM OR RE-Form approved.
Budget Bureau No. 42-11626.
5. LEASE DESIGNATION AND 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.)

1. OIL WELL ☐ GAS WELL ☐ OTHER ☐	6. IF INDIAN, ALLOTTEE OR OTHER NAME
2. NAME OF OPERATOR Great Western Drilling Company	7. UNIT LEASING NAME
3. ADDRESS OF OPERATOR	8. FARM OR LEASE NAME
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.) At surface	9. WELL NO.
14. PERMIT NO.	10. FIELD AND WELL, AS OWNED
15. ELEVATIONS (Show whether 20, 27, 28, etc.)	11. SEC., T. 1, R. 1, S. 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100
	12. COUNTY OF LEASE, STATE

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

NOTICE OF INFORMATION TO:

TEST WATER SHUT-OFF

FRACTURE TREAT

SHOOT OR ACIDISE

REPAIR WELL

(Other)

PULL OR ALTER CASING

MULTIPLE COMPLETS

ABANDON*

CHANGE PLANS

SUBSEQUENT REPORT OF:

WATER SHUT-OFF

FRACTURE TREATMENT

SHOOTING OR ACIDISING

(Other)

REPAIRING WELL

ABANDONING CASING

ABANDONING WELL

(Note: Report results of multiple completion on well completion or recompletion reports and log forms.)

17. DESCRIPTION PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of completion of work, if well is discontinuing, give summary location and measured and true vertical depth to bottom of hole, and true vertical depth to base of work.)

fluid level to 4,600'. Recovered 47 bbls. fluid, cutting 10-12½% oil. T.O.H. w/tbg. Picked up bridge plug overshot & pkr & ran in hole to 8,687' & set pkr. 96' below perforations & 31' above BP. Made 7 swab runs & lowered fluid level to S.N. & pkr. & shut down. Day recovery: 67 bbls., 152 bbls. overload.

3/31/84: SITP 0 psi, SICP 80 psi. Made 2 swab runs, tbg was dry, BP holding ok. Released pkr & pulled to 8,309' & set pkr. Swabbed 10 hrs & lowered fluid level to 5,000'. Recovered 132 bbls. fluid, cutting 10-12½% oil. Have recovered 284 bbls. overload.

4/1/84: SITP 240 psi, S.I. 17 hrs.

4/2/84: Ran tracer survey. Results indicated communications between the top Bone Springs zone & the bottom Bone Springs zone behind the 4½" csg. Dumped 5 gals. sand down tbg. Unseated pkr. POH w/tbg & pkr.

4/3/84: R.V. Ryco wireline & perforated 2 holes, one @ 8,690' & the other one @ 8,691'. Ran 4½" EZ Drill Cement Retainer to 8,640'. Pumped 13 bbls. through ret., set ret. @ 8,640', pumped 9 bbls. & well started circ. - closed csg. Squeezed perfs. @ 8,690' & 8,691' w/100 Sxs. Class H + 5/10% Halad 9 & 3/10% HR-7 to 1,000 psi on the tbg & 1,100 psi on the csg. Pulled out of ret. & POH w/tbg, left 4 bbls. cement on top of retainer. Ran 3-3/4" bit, 4 3-1/8" DC & 123 stds. tbg & shut down.

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

SIGNED

TITLE

DATE

(Cont.)

(This space for Federal or State office use)

APPROVED BY

TITLE

DATE

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Instructions

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UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEYSUBMIT IN DUPLICATE
(Other instructions on reverse side)Form approved,
Budget Bureau No. 42-R1494.

5. LEASE DESIGNATION AND SERIAL NO.

6. IF INDIAN, ALLOTTEE, OR OTHER NAME

7. UMS ASSIGNMENT NAME

8. FARM OR LEASE NAME

9. WELL NO.

10. FIELD AND SECT. OR SURFACE

11. SEC., T., R., OR NEARBY
SECTION OR AREA

12. COUNTY OF STATE 13. STATE

SUNDRY NOTICES AND REPORTS ON WELLS

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Use "APPLICATION FOR PERMIT—" for such proposals.)

1. OIL WELL ☐ GAS WELL ☐ OTHER ☐	
2. NAME OF OPERATOR Great Western Drilling Company	
3. ADDRESS OF OPERATOR	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.) At surface	
14. PERMIT NO.	15. ELEVATIONS (Show whether SP, ST, CR, etc.)

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 COMPLETES

ABANDON*

CHANGED PLANS

SUBSEQUENT REPORT OF:

WATER SHUT-OFF

FRACTURE TREATMENT

SHOOTING OR ACIDIZING

(Other)

REPAIRING WELL

ABANDONING 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 markings and measurements pertinent to this work.)

4/4/84: Ran bit to 8,378' & tagged cement 262' above cement retainer. Top 63' was split cement, from 8,441' to 8,636' good hard cement. Circ. hole clean @ 8,636'. Pressured to 2,000 psi for 15 min. w/out pressure loss. POH w/bit & shut down.

4/5/84: R.U. Ryco wireline. Perforated 2 holes, one @ 8,590' & one @ 8,591'. Loaded csg & pressured to 2,200 psi, held ok. Ran Baker 4 1/2" Model EA. Retrieve-o-matic pkr on 2-3/8" OD, tbg & set @ 8,338'. Made 6 swab runs & recovered 23 bbls., lowered fluid level to 6,500', shut down 30 min., ran swab & fluid level still @ 6,500'. Released pkr. & ran to 8,590' & spotted acid @ perforations. Pulled pkr. to 8,291' & set pkr 107' above top of original perfs. Acidized w/500 gals. 15% HCL & additives. Max. treating pressure 2,800 psi, min. 1,400 psi @ avg. rate 3.9 BPM. ISDP 1,400 psi, 15 min. 900 psi. Total load: 59 bbls. Opened well. Swabbed 2 1/2 hrs. & recovered 25 bbls. Fluid level @ 8,000'. Shut down. Lack 33.5 bbls. recovering load. Recovery was water & light trace of oil, no gas.

4/6/84: SITP 50 psi, S.I. 13 hrs. Fluid level @ 6,400'. Swabbed 6 runs & recovered 7 bbls. fluid from S.N., very little gas & slight trace of oil. Unseated pkr & POH. Perforated w/ 3-1/8" csg guns, select fire, SSB II charges, 19" penetration & .38" dia. holes from 8,398' to 8,587' w/58 holes. Fluid level @ 2,900' while perforation, no change in level.

4/7/84: Ran 3-3/4" bit & 4 3-1/8" DC on 2-3/8" tbg to 8,636', broke circ., drilled 2' of cement & 1' of cement retainer, retainer going down hole, pushed to 8,640', worked on retainer

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

(Cont.)

SIGNED

TITLE

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APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

Instructions

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UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEYSUBMIT IN DUPLICATE*
(Other instructions on reverse side)Form approved.
Budget Bureau No. 42-11494.

4.

SUNDRY NOTICES AND REPORTS ON WELLS

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1. ☐ OIL WELL ☐ GAS WELL ☐ OTHER		5. LEASE DESIGNATION AND SERIAL NO.
2. NAME OF OPERATOR Great Western Drilling Company		6. IF INDIAN, ALLOTTEE OR TRUST NAME
3. ADDRESS OF OPERATOR		7. UNIT ASSIGNMENT NAME
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.) At surface		8. FARM OR LEASE NAME
14. PERMIT NO.		9. WELL NO.
15. ELEVATIONS (Show whether IN, ON, etc.)		10. FIELD AND FUEL, OR WINDMILL
		11. SEC., T. & R., CO. & NEARBY SURVEY OR AREA
		12. COUNTY & STATE, IF KNOWN

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

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF	☐	WATER SHUT-OFF	☐
FRACTURE TREAT	☐	FRACTURE TREATMENT	☐
SHOOT OR ACIDISE	☐	SHOOTING OR ACIDISING	☐
REPAIR WELL	☐	(Other)	☐
(Other)	☐	(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)	
FULL OR ALTER CASING	☐	REPAIRING WELL	☐
MULTIPLE COMPLETS	☐	ABANDONING CASING	☐
ABANDON*	☐	ABANDONMENT*	☐
CHANGE PLANS	☐		

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

& attempted dry drilling.

4/9/84: T.O.H. w/bit, changed bit, T.I.H. w/bit & tagged up @ 8,640'. Drilled on remnants of ret. 2½ hrs. & drlg cement to 8,690'. Circ. hole & pulled 2 stds & shut down.

4/10/84: Ran bit back to bottom & resumed drlg. cement @ 8,690'. Drilled cement to 8,702' & washed to top of bridge plug @ 8,718'. Circ. hole. POH w/drlg installation. Ran 4½" Baker EA Retrieve-o-matic pkr. w/1 jt. of tbg as tailpipe & S.N. on top of pkr. Ran pkr. to 8,250' w/tailpipe @ 8,276'. Set pkr & swabbed well. Made 11 swab runs, last 2 runs from S.N. Recovered 32 bbls. water w/very little gas & trace of oil.

4/11/84: SITP 10 psi, S.I. 13 hrs. Made 1 swab run, had 500' fluid above S.N. Unseated pkr & ran tailpipe to 8,590' and spotted 4 bbls. acid across perfs. Pulled to 8,281' w/pkr & tailpipe @ 8,308'. Pressured annulus to 1,000 psi after setting pkr. Acidized w/4,000 gals. 15% HCL & additives & 116-7/8" ball sealers. Treating pressures: Max. 2,200 psi, Min. 1,800 psi, avg. 2,000 psi @ avg. rate 2.6 BPM. ISDP 1,500 psi, 15 min. 1,400 psi. Total load 164 bbls. Opened well, flowed & swabbed 49 bbls. lack 115 bbls. recovering load.

4/12/84: SITP 80 psi, S.I. 13 hrs. Fluid level @ 7,300'. Swabbed 5 hrs. recovering 9 bbls. water, acid wtr. w/very little gas & oil, approx. 2% oil. Lack 106 bbls. recovering load. Released pkr & lowered tailpipe to 8,668' & swabbed csg. Swabbed 6 hrs., lowering fluid

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

SIGNED

TITLE

DATE

(Cont.)

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APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

Instructions

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UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEYSUBMIT IN APPLICATION
(Other instructions on re-
verse side)Form approved.
Budget Bureau No. 62-21494.
5. LEASE DESIGNATION AND SERIAL NO.

SUNDRY NOTICES AND REPORTS ON WELLS

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1. OIL WELL ☐ GAS WELL ☐ OTHER ☐	6. IF INDIAN, ALLOTTEE OR TRUST NAME
2. NAME OF OPERATOR Great Western Drilling Company	7. UNIT ABBREVIATION NAME
3. ADDRESS OF OPERATOR	8. FARM OR LEASE NAME
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.) At surface	9. WELL NO.
10. FIELD AND WELL, OR OTHER IDENTIFICATION	11. SEC. T. R. S. & NEARBY COUNTY OF AREA
12. PERMIT NO.	13. ELEVATIONS (Show whether 20, 25, 30, etc.)
14. PERMIT NO.	15. ELEVATIONS (Show whether 20, 25, 30, etc.)

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 ACIDISE

REPAIR WELL

(Other)

PULL OR ALTER CASING

MULTIPLE COMPLETE

ABANDON*

CHANGE PLANS

SUBSEQUENT REPORT OF:

WATER SHUT-OFF

FRACTURE TREATMENT

SHOOTING OR ACIDISING

(Other)

REPAIRING WELL

ABANDONING CASING

ABANDONMENT*

(NOTE: Report results of multiple completion on Well
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level to 7,000'. Rec. 80 bbls. wtr & shut down.

4/13/84: SITP 0 psi, S.I. 13 hrs. Fluid level 6,700'. Swabbed 3 hrs., recovered 9 bbls. of fluid, cutting 2% oil & slight gas increase. POH w/tbg & pkr. Fraced down the 4 1/2" csg. in 2 stages containing a total of 64,000 gals. of 30# gelled fresh water w/2% KCL, 20% nitrogen 595,000 std. cu. ft., 180,000 lbs. 20-40 mesh sand, 1,500 lbs. 100 mesh salt & 20 7/8" ball sealers. Treating pressures: Max. 3,000 psi, Min. 2,650 psi & avg. 2,800 psi @ avg. 18 BPM. ISIP 2,600 psi, 15 min. 2,300 psi, 60 min. 1,900 psi. Total load to recover: 1,948 bbls. SICP 1,900 psi, opened well on 1/2" positive choke @ 2:00 p.m., 4-13-84. At 6:00 a.m., 4-14-84, FCP 200 psi, flowing wtr., foam, small amount of sand & trace of oil. Est. recovery: 1,024bbls. Lack 924 bbls. recovering load.

4/14/84: FCP 280 psi on 1/4" choke. Produced 265 bbls. fluid, 40 bbls. oil & 225 bbls. wtr. in 24 hrs.

4/15-22/84: Recovering load. Lack 435 bbls.

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