

OIL CONSERVATION DIVISION

Shell Western E&P Inc.

An Affiliate of Shell Oil Company

RECEIVED JAN 9 1992



P.O. Box 576
Houston, TX 77001

January 29, 1992

State of New Mexico
Energy, Minerals and Natural Resources Dept.
Oil Conservation Division
P. O. Box 2088
Santa Fe, NM 87504-2088

Gentlemen:

SUBJECT: ADMINISTRATIVE ORDER NO. PMX-166
NORTH HOBBS (GRAYBURG/SAN ANDRES) UNIT (NHGSAU)
HOBBS GRAYBURG SAN ANDRES POOL
LEA COUNTY

The subject order was approved on November 6, 1991. It requires that prior to commencing injection operations into NHGSAU Well No.'s 19-442 and 20-121, the Bowers Federal Humble #33 and McKinley B Sun #1 must be re-entered and -plugged. Upon further review of USGS, NMOCD, and Oryx files, we discovered that the well schematics submitted with our August 26, 1991 application were not correct. The following items were incorrect or missing:

Bowers Federal Humble #33

- Squeezed perfs (3/9/70 USGS sundry notice)
- CIBP's @ 5800' and 5900' (3/9/70 USGS sundry notice)
- Plug @ 3978' (3/9/70 USGS sundry notice) capped with 100' cement (10/3/72 USGS sundry notice)
- 9-5/8" casing cemented with 350 sx (8/8/69 USGS sundry notice) with TOC @ 2555' per temperature survey (4/24/72 USGS sundry notice)
- 7" casing TOC @ 2900' per temperature survey (4/24/72 USGS sundry notice)

(See attached revised well schematic and USGS sundry notices.)

McKinley B Sun #1


- 17-1/2" hole to 253' and 6-1/4" hole 4135-7658' (Oryx well record)
- 4-1/4" open hole to 8010' (2/18/47 NMOCD report)
- 5" and 5-1/2" casing cemented with 350 sx (11/23/46 NMOCD report) with TOC @ 3466' (calculated)
- 15 sx cement plug at 1110' (2/18/47 NMOCD report) with TOC @ 1021' (calculated)
- 15 sx cement plug at 900' (2/18/47 NMOCD report) with TOC @ 869' (calculated)
- 13" casing TOC @ surface (calculated)

(See attached revised well schematic, NMOCD reports, and Oryx well record.)

The additional data shows that both wells were adequately plugged. Therefore, we request that the requirement that the wells be re-entered and -plugged prior to commencing injection operations into NHGSAU Well No.'s 19-442 and 20-121 be deleted from the subject order.

Please contact Lori Litzen at (713) 870-3361 with questions.

Sincerely,

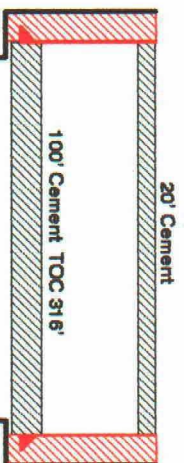
A handwritten signature in black ink, appearing to read 'W. F. N. Kelldorf', written in a cursive style.

W. F. N. Kelldorf
Division Environmental Engineer - HS&E
Western Division

LLL:rlb

Attachments (9)

17" Hole



416'

13.375" 48# 416'
Cemented with 400 sx
Class H (2% CaCl, 4% Gel) @ 416'

9.625" 36# 3836'

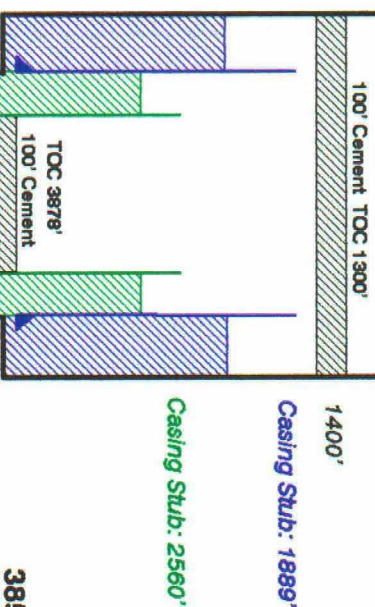
Cemented with 350 sx

Class H (8% Gel) @ 3850'

TOC 2555' (Temp Survey)

1889' of 9 5/8" Casing Recovered During Abandonment

12.25" Hole



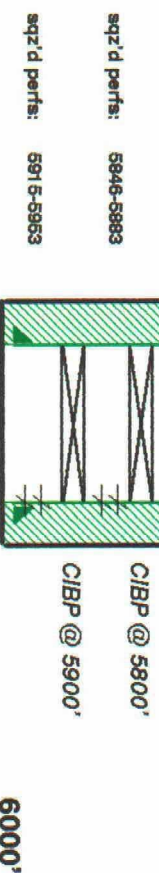
3850'

Baker Plug @ 3978'

sqz'd perfs: 4144-4145
sqz'd perfs: 4256-4270

7" 23# 5988'
Cemented with 350 sx and
200 sx Neat on Bottom
TOC 2900' (Temp Survey)
2560' of 7" Casing Pulled During Abandonment

8.75" Hole



6000'

Bowers - Federal
Humble #33
29 - T18S - R38E

Abandoned, Oct. 1972

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEYSUBMIT IN TRIPlicate*
(Other instructions on reverse side)Form approved.
Budget Bureau No. 42-R1424

6. LEASE DESIGNATION AND SERIAL NO.

LC-032233 (A)

6. IF INDIAN ALLOTTEE OR TRIBE NAME

17 1910

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 <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/> <u>Drilg</u>	7. UNIT AGREEMENT NAME
2. NAME OF OPERATOR <u>Humble Oil & Refg Co.</u>	8. FARM OR LEASE NAME <u>Bravos A Federal Com</u>
3. ADDRESS OF OPERATOR <u>Box 1600 - Midland Texas 79701</u>	9. WELL NO. <u>33</u>
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) <u>At surface</u> <u>800 FNL, 660 FWL</u>	10. FIELD AND POOL, OR WILDCAT <u>Hobbs GSA & Blinebry</u>
14. PERMIT NO.	15. ELEVATIONS (Show whether DF, WFL, etc.)
	11. SEC., T., R., N., OR BLK. AND SURVEY OR AREA <u>S29, T18S, R38E</u>
	12. COUNTY OR PARISH <u>Lea</u>
	13. STATE <u>N. Mex</u>

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) Completion attempts

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.)*

No 1 R.U. and perf. 7" Csg from 5915 to 5919' w/ shot/ft and 1 shot each from 5929-30-31-32-33-39-43-44-52 and 5953' Treat Blinebry perfs 5915-5953' w/ 1500 gal - 15% NE acid @ 3200# and 1.3 BPM. Swab Test 100% water. Squeezed off perfs w/ 45 sac cmt. Drild out cmt to bottom. Perf 7" Csg from 5915 to 5933' w/ 1 shot/ft. Treat perfs w/ 500 gal 15% NE acid @ 1400 psi and .75 BPM. Test well and rec 100% water - No oil or ggs.

Cont on No 2

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

SIGNED

[Signature]

TITLE

Unit Head

DATE

3/9/70

(This space for Federal or State office use)

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEYSUBMIT IN TRIPLICATE
(Other instructions on re-
verse side)Form approved
Budget Bureau No. 42-2140

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 <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/> <u>Drilg</u>		5. LEASE DESIGNATION AND SERIAL NO. <u>LC-032233</u>	
2. NAME OF OPERATOR <u>Humble Oil & Refg Co.</u>		6. IF INDIAN, ALLOTTEE OR TRUST NAME	
3. ADDRESS OF OPERATOR <u>Box 1600 - Midland, Texas 79701</u>		7. UNIT AGREEMENT NAME	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) <u>800 FNL, 660' FNL</u>		8. FARM OR LEASE NAME <u>Bowers A Federal Co.</u>	
14. PERMIT NO. <u>---</u>		9. WELL NO. <u>33</u>	
15. ELEVATIONS (Show whether DF, RT, GR, etc.) <u>---</u>		10. FIELD AND POOL, OR WILDCAT <u>Hobbs GSA & Hobbs</u>	
		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA <u>S29, T18S, R38E</u>	
		12. COUNTY OR PARISH <u>Lea</u>	
		13. STATE <u>N. Mex</u>	

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*

(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.)*

Cont # 2 R.V. and ran rods & pump to 5968' & test well. Failed to pump oil. Squeezed perfs 5915-5919'. Pulled rods, pump & bkg. R.V. and drill cmt to 6000' T.D. R.V. and perf from 5952-5953' w/ 4 shots. Test and squeeze perfs w/ 25 sax @ 4000 psi. WOC 36 hrs. Water perf 7" CSG from 5867-69, 5874-76, 5881-83', w/ 2 RASF jet shots/ft. Log perfs. Treat perfs w/ 500 gal. 15% NE acid @ 2000 psi. @ .25 BPM. Swabbed and recovered 128 bbl water. Squeezed perfs w/ 50 sax @ 1800 psi. Perf @ 5846' w/ 4 shots. Test and squeeze off perf. Drill out cmt and retainers to 5900'. Test CSG OK. Drld to 5925' and perf from 5915-5919' w/ 2 shots/ft. Acidize perfs w/ 1500 gal. 15% NE acid @ 4600 psi. and 3.6 BPM. Swabbed & recovered 102 bbl water. Squeeze off perfs w/ 75 sax cmt. WOC. Report 5915-5919' w/ 2 shots/ft Test and recover 100% water. Attempt to frac @ 7000 psi but plug off formation. Reverse out sand. Set CI. BP @ 5900' and perf 7" from 5867-5878' w/ 1 shot/ft. Frac perfs w/ 800 gal and 6500# sand @ 9900 psi. at 10.8 BPM. Test and recover 100% water.

Continued on No. 3.

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

SIGNED

TITLE

DATE

(This space for Federal or State office use)

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEYSUBMIT IN TRIPLICATE*
(Other instruction on reverse side)Form approved.
Budget Bureau No. 42-21151

5. LEASE DESIGNATION AND SERIAL NO.

LC 032233 - (C)

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

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 <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/> <i>Orlg</i>		7. UNIT AGREEMENT NAME	
2. NAME OF OPERATOR <i>Humble Oil & Refg Co</i>		8. FARM OR LEASE NAME <i>Bowers A Federal Com</i>	
3. ADDRESS OF OPERATOR <i>Box 1600 - Midland Texas</i>		9. WELL NO. <i>33</i>	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface <i>800 FNL, 660' FNL</i>		10. FIELD AND POOL, OR WILDCAT <i>Hobbs GSA and Hobbs Blumery</i>	
14. PERMIT NO. <i>—</i>		15. ELEVATIONS (Show whether DF, RT, GR, etc.) <i>—</i>	
		12. COUNTY OR PARISH <i>Lea</i>	
		13. STATE <i>N. Mex</i>	

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*

(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 and 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.)*

Cont #3 Set C.I. BP @ 5800' and Cap w/ 15% cement on top. Welex perf 7" CSG from 4261-4270' w/ 10 shots. Test and recover 90 bbl water. Squeeze off perfs w/ 150 5% cement. Perf from 4256-4266' and acidize w/ 500 gal NE acid. Reacidize w/ 3000 gal - 15% NE acid @ 500 psi @ 3.6 BPM. Test and recover 100% water. Pull tbq. rods & pump. Squeeze off perfs. Perf 7" CSG from 4144-4145' w/ 5 shots. Treat perfs w/ 500 gal - 15% MCA acid. Test and recover water w/ small amt oil & gas. Set Baker plug @ 3978' and dump 8' cement on top. Pull rods pump and tbq. Well T.A. 1-3-70

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

SIGNED

TITLE

DATE

(This space for Federal or State office use)

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEYSUBMIT IN TRIPLICATE
(Other instructions
reverse side)Form approved.
Budget Bureau No. 42-R1421.

5. LEASE DESIGNATION AND SERIAL NO.

LC032233 - (A)

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

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 <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/>	7. UNIT AGREEMENT NAME
2. NAME OF OPERATOR HUMBLE OIL & REFINING COMPANY	8. FARM OR LEASE NAME BOWERS "A" FED. CCM.
3. ADDRESS OF OPERATOR P. O. BOX 1600, MIDLAND, TEXAS 79701	9. WELL NO. 33
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface 800' FNL, 660' FWL, Sec. 29, T-18-S. R 38 E	10. FIELD AND POOL, OR WILDCAT HOBBS GB/SA & BLINEBR
14. PERMIT NO.	15. ELEVATIONS (Show whether DF, RT, GR, etc.) 3657 DF
	11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA S29, T18S, R38E
	12. COUNTY OR PARISH Lea
	13. STATE N.M.

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

NOTICE OF INTENTION TO:

SUBSEQUENT REPORT OF:

TEST WATER SHUT-OFF ☐PULL OR ALTER CASING ☐WATER SHUT-OFF ☐REPAIRING WELL ☐FRACTURE TREAT ☐MULTIPLE COMPLETE ☐FRACTURE TREATMENT ☐ALTERING CASING ☐SHOOT OR ACIDIZE ☐ABANDON* ☐SHOOTING OR ACIDIZING ☐ABANDONMENT* ☒REPAIR WELL ☐CHANGE PLANS ☐(Other) ☐(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.)*

Plugging procedure:

1. Displace 7" casing with mud.
2. Tag plug and spot 100' additional cement.
3. Cut and pull 7" casing from 2560'.
4. Cut and pull 9-5/8" casing from 1889'.
5. Run tubing to 1400' and spot 100' cement plug.
6. Spot 100' plug across 13-3/8" shoe @ 416'.
7. Spot 20' plug @ surface.
8. Cut off head and install marker.

Plugged & Abd 10-3-72

NOTE: All plugs displaced with mud.

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

SIGNED

TITLE

DATE

(This space for Federal or State office use)

THE POOL COMPANY

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

APPROVED

JAN 12 1973

*See Instructions on Reverse Side

J L GORDON
ACTING DISTRICT ENGINEER

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEYSUBMIT IN TRIPPLICATE*
(Other instructions on re-
verse side)Form approved.
Budget Bureau No. 42-R1421.

6. LEASE DESIGNATION AND SERIAL NO.

LC-032233 (2)

7. IF INDIAN, ALLOTTEE OR TRIBAL NAME

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-1" for such proposals.)

1. OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/> <i>Drilg.</i>	7. UNIT AGREEMENT NAME
2. NAME OF OPERATOR <i>Humble Oil & Refg Co</i>	8. FARM OR LEASE NAME <i>Bruers A Federal Comm.</i>
3. ADDRESS OF OPERATOR <i>Box 1600 - Midland, Texas</i>	9. WELL NO. <i>33</i>
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.) At surface <i>800' FNL & 660' FNL</i>	10. FIELD AND POOL, OR WILDCAT <i>Hobbs GSA and Hobbs Glineberg</i>
14. PERMIT NO. <i>-</i>	11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA <i>Sec 29, T18S, R38E</i>
15. ELEVATIONS (Show whether EF, RT, CR, etc.) <i>-</i>	12. COUNTY OR PARISH <i>Lea</i>
	13. STATE <i>N. Mex.</i>

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) *Spud*

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.) *

MIRU. Spud in well @ 8:00 PM 7-15-69. Drild to 416' and ran & set 416' of 13 3/8" 48 # CSg. Cmt w/ 400 Sax C.H. Cmt w/ 270 cc @ 4 1/2 gal. Cmt circ. WOC 18 hrs. Test w/ 800 psi & held OK. Resume drilg. Drild to 3850' and ran & set 3836' of 9 7/8" 36 # CSg. Cmt w/ 350 Sax C.H. w/ 8 1/2 gal and 200 Sax Heat. Cmt @ 1550' by temp. survey. WOC 18 hrs and test CSg w/ 750 psi for 30 min w/ no press. drop. Resume drilg. Drild to TD 6000' on 7-30-69. Ran & set 5980' 7" 00" CSg and Cmt w/ 350 Sax and 200 Sax Heat on bottom. WOC 24 hrs and test Cmt w/ 1500 psi w/ no pressure drop. Preparing to dually complete well.

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

SIGNED

TITLE

DATE

(This space for Federal or State office use)

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEYSUBMIT IN TRIPLICATE*
(Other instructions on re-
verse side)Form approved by
Budget Bureau No. 42-R1424.

5. LEASE DESIGNATION AND SERIAL NO.

LC 032233 - (A)

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

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 <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/>		7. UNIT AGREEMENT NAME
2. NAME OF OPERATOR Humble Oil & Refining Company		8. FARM OR LEASE NAME Bowers "A" Fed. Com.
3. ADDRESS OF OPERATOR P.O. Box 1600, Midland, Texas 79701		9. WELL NO. 33
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface 800' FNL, 660' FWL, Sec. 29, T18S R38E		10. FIELD AND POOL, OR WILDCAT Hobbs GB/SA & Blinbry
14. PERMIT NO.		11. SEC., T., E., M., OR BLK. AND SURVEY OR AREA S29, T18S, R38E
15. ELEVATIONS (Show whether DF, RT, GR, etc.) 3657' DF		12. COUNTY OR PARISH Lea
		13. STATE New Mexico

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* ☐

(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.)*

PROCEDURE:

Notify USGS, OCC and offset operators of intent to plug and abandon.

1. Displace 7" casing with gelled mud (25 sacks gel in 100 barrels produced water).
2. Spot 100' cement plug at 3960'.
3. Cut and pull 7" casing.
4. Cut and pull 9 5/8" casing. Spot 100' cement plug in casing or top of anhydrite at 1400', whichever is higher.
5. Spot 100' cement plug at 13 3/8" casing shoe.
6. Spot 20' cement plug at surface.
7. Rig wellhead for abandonment and install marker.

NOTE: Follow each cement plug with gelled mud.

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

SIGNED

B.M. Bradley

TITLE District Superintendent

DATE

(This space for Federal or State office use)

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

PLUG AND ABANDON, ANDREWS DISTRICT

Date April 27, 1972
Field Supt. J. C. Sherrill

Well Bowers "A" Federal (Comm.) No. 33
Field Hobbs Pool

Objective: Plug and Abandon

Drilled Depth 6000' Plug Back Depth 6000' Prod. Csg: Size 7"

Min. & Max. pff 23 Min. Grade J-55 Set at 5988'

Top Cement 2900' T.S. Production Interval Grayburg-San Andres & Blinbry

Perf. Csg: Interval (s) 4144' to 5953' at selected intervals

Tubing Size _____ Grade _____ No. Joints _____ Set at _____

Bottom Arrangement CI BP @ 3978' w/8' cmt. on top.

^{GR}
~~KIR~~ Elev. 3646' Zero Point 11.8 Feet Above GR Casinghead Flange

Latest Well Test: _____

PROCEDURE:

Attached.

PLUG AND ABANDON PROCEDURE

Notify USGS, OCC and offset operators of intent to plug and abandon.

1. Displace 7" casing with gelled mud (25 sacks gel in 100 barrels produced water).
2. Spot 100' cement plug at 3980'.
3. Cut and pull 7" casing.
4. Cut and pull 9 5/8" casing. Spot 100' cement plug in casing or at top of anhydrite at 1400', whichever is higher.
5. Spot 100' cement plug at 13 3/8" casing shoe.
6. Spot 20' cement plug at surface.
7. Rig wellhead for abandonment and install marker.

NOTE: Follow each cement plug with gelled mud.

NO AFE - Charge LC-652



S.E. Barker

HNS/sm
6-26-72

HNS

4-24-72

BOWERS "A" FEDERAL COM. No. 33

13 3/4 @ 4140'
w/400 sx.
cmt. circ.

Top Cmt. 2555' T.S.

Top Cmt. 2900' T.S.

95/2 @ 3350' w/550
sx.

3998' BP w/8' cmt. on top.

San Andres

Perfs: 4144-45

4256-66

4261-70

(squeezed)

5900' CI BP capped w/cmt.

5900' CI BP " "

Perfs. 5915-19 Blindbry

5939-33

5939

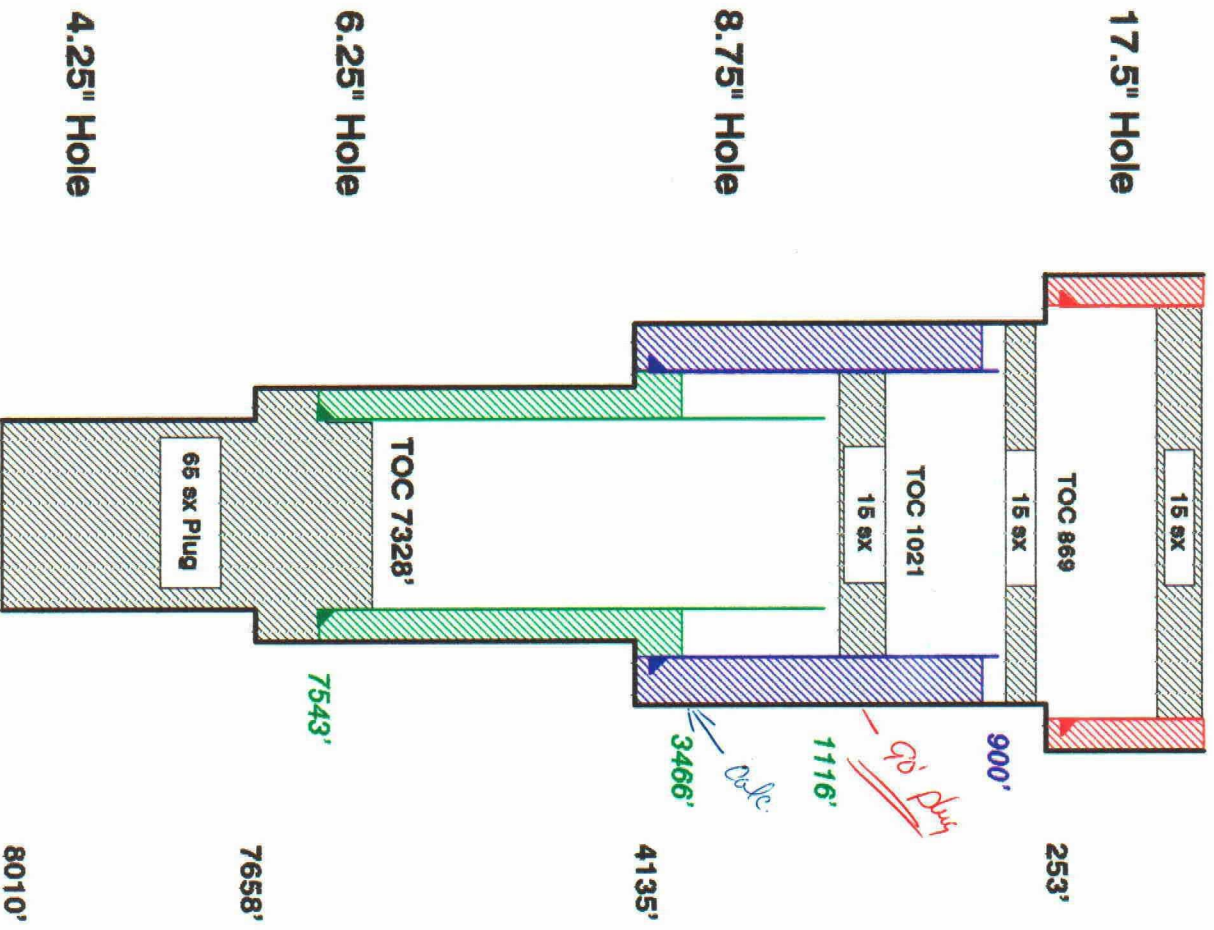
5942-52

5953

(squeezed)

T.P.

7" @ 5992'
w/550 sx.



13" 50# 253'
Cemented with 150 sx @ 253'

7" 24# 3253'
Cemented with 875 sx @ 4135'

916' of 7" Casing Recovered During Abandonment

5.5" 15.5# J-55 2498' +
5.0" 18# N-80 3614'
Cemented with 350 sx @ 7543'
 1107' of 5.5" Casing Pulled During Abandonment

McKinley B
Sun #1
20 - T18S - R38E

Abandoned, Feb. 1947

Sun Oil Company

WELL RECORD

Date April 18, 1936Lease H. D. McKinley "B" Well Number 1-BDistrict Odessa, Texas. County Lea (N. Mex.)Signed T. J. SWEENEY

Superintendent

HISTORY

TOTAL DEPTH OF WELL 4242', plugged back depth: 4215*	LOCATION MADE	DATE 1/1/36
HIGHT OF DERRICK FLOOR ABOVE GROUND FT. 9	DERRICK COMPLETED	DATE 1/7/36
ELEVATION OF DERRICK FLOOR FT. 3660	DRILLING RIG SET UP	DATE 1/7/36
ELEVATION OF GROUND FT. 3651	DRILLING COMMENCED	DATE 3/5/36
DEPTH OF HOLE DRILLED BY CONTRACTOR FT. 4242	CONTRACT COMPLETED	DATE 3/5/36
*Upon completion of rotary hole. See: Work over operations	RIG WAS DISMISSED	DATE
DRILLED BY ROTARY RIG	FROM 0	FEET TO 4242 FEET
DRILLED BY CABLE TOOLS	FROM -	FEET TO - FEET
NUMBER OF DAYS RIG WAS IDLE	- - -	
NUMBER OF DAYS CONTRACTOR WORKED DAY RATE	16-29/50	
NATURE OF DAY RATE WORK Coring; swabbing; tubing; setting packers; plugging back; drilling plug; acidizing.		
NAME OF CONTRACTOR	OIL WELL DRILLING CO.	

DRILLING & REAMING RECORD

DRILLED 17 1/2 INCH HOLE FROM 0 FT. TO 253 FT.	REAMED INCH HOLE FROM FT. TO FT.
DRILLED 8 3/4 INCH HOLE FROM 253 FT. TO 4135 FT.	REAMED INCH HOLE FROM FT. TO FT.
DRILLED 6 1/2 INCH HOLE FROM 4135 FT. TO 4242 FT.	REAMED INCH HOLE FROM FT. TO FT.
DRILLED INCH HOLE FROM FT. TO FT.	REAMED INCH HOLE FROM FT. TO FT.
DRILLED INCH HOLE FROM FT. TO FT.	REAMED INCH HOLE FROM FT. TO FT.
DRILLED INCH HOLE FROM FT. TO FT.	REAMED INCH HOLE FROM FT. TO FT.

CORE RECORD

NUMBER OF CORES TAKEN	3	FEET OF HOLE REAMED AFTER CORING	--
TOTAL FEET DRILLED WITH CORE BBL.	42	KIND OF CORE BBL.	Hughes, Model "J"
TOTAL FEET OF CORE RECOVERED	18		

SAND RECORD

DATE '36	DEPTH (FT.)	Drillers' Log:	SHOWING Report All Oil, Gas or Water Showings
1/23	2981	3020	Brown lime-showing little gas at 3000'
2/11	3596	3730	Brown lime & gyp-showing little gas at 3705'
2/14	4200	4218	Lime, gray-showing some oil
3/15	4235	4242	Lime-showing oil
3/15		4242	Lime-Sulphur water w/5% oil & little gas-Couldn't swab down.
	4208	4216	W. E. WINN'S ANALYSES - Letter 3/2/36
	4216	4217	Dr. Gr. lime - oil - large pores
	4217	4218	Grn. lime - oil - some large pores - strong H ₂ S odor
	4218	4235	Gray almost impermeable lime-oil & H ₂ S odor
	4235	4242	Brn. gray-no large pores-strong H ₂ S odor
			Gr. lime - large brown spots - H ₂ S odor

SEAT 7-Original Oil String (See Sheet No. 1 of 2)

Cement in 1 bag 7228/8010

7400

7500

(EXTRA WORK BROUGHT FORWARD FROM EXTRA WORK COLUMN)

DEMPENING: 4507/7658 (6 1/2" hole): encountered
lime w/ staining.
(Cnt: comb. 5 1/2" x 5" csg at
7542.6')

(1) DRILL PLUG: 7490/7542.6' (drilled out), washed to btm (116' of hole)

TEST: Ran 7bg, swabbed, rec wash wtr w/
oil & gas show; washed hole w/
1000 gals acid

ACIDIZED: Thru tbg w/ 4000 gals 15% HCL
acid, FP csg 2700#, tbg 2580#

TEST: Thru tbg: swabbed, acid wtr & oil
(75% oil, 25% wtr), CF 475/750#

RE-ACIDIZED: Thru tbg, w/3000 gals 15% HCL acid

TEST: Swabbed tbg, rec 141 bbls fluid,

TEST: Filled tbg & re-ran, washed open
hole w/ oil:

TEST: Swabbed, rec oil, BS & wtr.
SHOT: (open hole 7618/58') w/ 110 qts,
N.G., 4" dia. shells, w/ time
bomb & umbrella bridge, tamped w
pea gravel, to fill 127' hole
above shot

TEST: Cleaned out to 7612 (left bridge
this depth, ran 100g, swabbed, rec.
oil. 35 & wtr.) No results

Ran bailer & cleaned out to btm,
7658"

(2) DEEPENING: Drld 6 1/2" hole, 7658 to 8010, no results.

Orig contractor dismissed 1/30/47

1. WELD CSO: (Seat) 7542.641
ACT FT: 3920.16, 54", 15.5#,
J-55, top; 3613.73, 5",
18#, N-80, btm, 350
sks in 6 1/2" hole
11/19/46

NOTE: Pulled and recovered 1107' of 5 1/2" 13.5 J-55 cng

7:00

7700

760X:

7550

६०००

SC10' T.D.

RE
deep

Drive

NO
ELEV R
-ALL DEPTH
MEASURED
POINT.

DUPLICATE

OIL CONSERVATION COMMISSION

Santa Fe, New Mexico

MISCELLANEOUS REPORTS ON WELLS

FEB 20 1947

Submit this report in triplicate to the Oil Conservation Commission or its proper agent within ten days after the work specified is completed. It should be signed and sworn to before a notary public for reports on beginning drilling operations, results of shooting well, results of test of casing shut off, result of plugging of well, and other important operations, even though the work was witnessed by an agent of the Commission. Reports on minor operations need not be signed and sworn to before a notary public. See additional instructions in the Rules and Regulations of the Commission.

Indicate nature of report by checking below.

REPORT ON BEGINNING DRILLING OPERATIONS		REPORT ON REPAIRING WELL	
REPORT ON RESULT OF SHOOTING OR CHEMICAL TREATMENT OF WELL		REPORT ON PULLING OR OTHERWISE ALTERING CASING	X
REPORT ON RESULT OF TEST OF CASING SHUT-OFF		REPORT ON DEEPENING WELL	
REPORT ON RESULT OF PLUGGING OF WELL	X		

February 18, 1947

Date

Odessa, Texas

Place

OIL CONSERVATION COMMISSION,
SANTA FE, NEW MEXICO.

Gentlemen:

Following is a report on the work done and the results obtained under the heading noted above at the

Sun Oil Company

H. D. McKinley "B"

Well No. 1

in the

Company or Operator

Lease

NE/4

of Sec. 20

T. 18-6

R. 38-8

N. M. P. M.,

Hobbs

Field, Lea

County.

The dates of this work were as follows: February 12-13-14-15, 1947

Notice of intention to do the work was ~~XXXXX~~ submitted on Form C-102 on February 7, 1947and approval of the proposed plan was ~~XXXXX~~ obtained. (Cross out incorrect words.)

DETAILED ACCOUNT OF WORK DONE AND RESULTS OBTAINED

Pulled 1107' of 5 1/2" OD csg. and placed cement plug at 1110' with 15 sacks cement. Pulled 916' of 7" OD csg. and placed cement plug at 900' with 15 sacks and mudded hole and placed cement plug in top of 13" CD surface csg. with 15 sacks cement. Well now permanently abandoned.

Witnessed by G. W. Soles

Name

Sun Oil Company

Company

Foreman

Title

Subscribed and sworn before me this 18th

day of February

19 47

I hereby swear or affirm that the information given above is true and correct.

Name

Position

Superintendent

Representing Sun Oil Company

Company or Operator

Ector County, Texas

Notary Public

My commission expires June 1, 1947

Address Box 2792, Odessa, Texas

Remarks:

APPROVED

Date FEB 20 1947

Roy Yarbrough
Name
Oil & Gas Inspector
Title

Sun Oil Company

H. D. McKinley "B", Well #1

Plugging Record

On January 28, 1947 well was plugged with 65 sacks cement pumped in hole through open ended tubing. Open 4-1/4" hole from total depth 8010' to 7543' and 5" OD oil string casing from casing seat 7543' to 7328' was plugged.

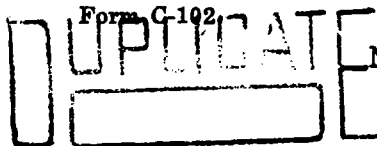
On February 12, 13, 14 & 15, 1947 we pulled 1107' of 5 1/2" OD oil string casing and pumped 15 sacks cement through open ended tubing placing cement plug at 1110'. We then pulled 916' of 7" OD intermediate casing and pumped 15 sacks cement through open ended tubing placing cement plug at 900'. Hole was then filled with heavy mud laden fluid and a cement plug was placed in the top of 13" OD surface casing with 15 sacks cement and well is now permanently abandoned.

1-31/4

2-7/10

2

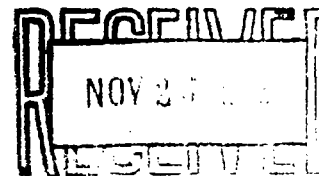
1-3/4



NEW MEXICO OIL CONSERVATION COMMISSION

SANTA FE, NEW MEXICO

MISCELLANEOUS NOTICES



Submit this notice in triplicate to the Oil Conservation Commission or its proper agent before the work specified is to begin. A copy will be returned to the sender on which will be given the approval, with any modifications considered advisable, or the rejection by the Commission or agent, of the plan submitted. The plan as approved should be followed, and work should not begin until approval is obtained. See additional instructions in the Rules and Regulations of the Commission.

Indicate nature of notice by checking below:

NOTICE OF INTENTION TO TEST CASING SHUT-OFF	<input checked="" type="checkbox"/>	NOTICE OF INTENTION TO SHOOT OR CHEMICALLY TREAT WELL	
NOTICE OF INTENTION TO CHANGE PLANS		NOTICE OF INTENTION TO PULL OR OTHERWISE ALTER CASING	
NOTICE OF INTENTION TO REPAIR WELL		NOTICE OF INTENTION TO PLUG WELL	
NOTICE OF INTENTION TO DEEPEN WELL			

Odessa, Texas

November 20, 1946

Place

Date

OIL CONSERVATION COMMISSION,
Santa Fe, New Mexico.

Gentlemen:

Following is a notice of intention to do certain work as described below at the

Sun Oil Company, H. D. McKinley "B" Well No. 1 in NE/4
Company or Operator Lease
of Sec. 20, T. 18-S, R. 38-E, N. M. P. M., Hobbs Field.
Lee County.

FULL DETAILS OF PROPOSED PLAN OF WORK

FOLLOW INSTRUCTIONS IN THE RULES AND REGULATIONS OF THE COMMISSION

5" OD N-80 18# and 5-1/2" OD J-55 15.50# casing set and cemented at
7543' using 350 sacks of cement and will be tested for water shut off
on November 22, 1946.

NOV 23 1946

Approved _____, 19____
except as follows:

OIL CONSERVATION COMMISSION,
By Roy Garbary
Title Oil & Gas Inspector

Sun Oil Company
Company or Operator
By D. S. Albright
Position Superintendent
Send communications regarding well to
Name Sun Oil Company
Address Box 2792
Odessa, Texas

OIL CONSERVATION DIVISION

STATE OF NEW MEXICO

ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

'91 SEP 5 AM 8 46

OIL CONSERVATION DIVISION
HOBBS DISTRICT OFFICE

9-3-91

BRUCE KING
GOVERNOR

POST OFFICE BOX 1980
HOBBS, NEW MEXICO 88241-1980
(505) 393-6161

OIL CONSERVATION DIVISION
P. O. BOX 2088
SANTA FE, NEW MEXICO 87501

RE: Proposed:

MC _____
DHC _____
NSL _____
NSP _____
SWD _____
WFX _____
PMX X _____

Gentlemen:

I have examined the application for the:

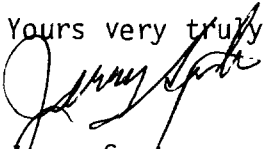
Shell Western E & P Inc. North Hobbs G/SA Unit Sec 19 # 422-14
Operator Lease & Well No. Unit S-T-R 19-18-38

and my recommendations are as follows:

Sec. 20 #121-E 20-18-38
Sec. 28 #211-C 28-18-38

OK

Yours very truly,



Jerry Sexton
Supervisor, District 1

/ed

LARGE FORMAT
EXHIBIT HAS
BEEN REMOVED
AND IS LOCATED
IN THE NEXT FILE