

UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN TRIPlicate
(Other instructions on reverse side)

Form approved.
Budget Bureau No. 42-R1424.

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"/>		5. LEASE DESIGNATION AND SERIAL NO. NM-7301	
2. NAME OF OPERATOR Harvey E. Yates Company ✓		6. IF INDIAN, ALLOTTEE OR TRIBE NAME	
3. ADDRESS OF OPERATOR P. O. Box 1933, Roswell, New Mexico 88201		7. UNIT AGREEMENT NAME	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.) At surface 660' FNL & 1980' FWL		8. FARM OR LEASE NAME East Lake Arthur Federal	
14. PERMIT NO.		9. WELL NO. 2	
15. ELEVATIONS (Show whether DF, RT, GR, etc.) 3442.6' GL		10. FIELD AND POOL, OR WILDCAT Wildcat	
O. C. C. ARTESIA, OFFICE		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Sec. 29, T-15S, R-27E	
		12. COUNTY OR PARISH Chaves	
		13. STATE N. M.	

RECEIVED

JUN 30 1978

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

NOTICE OF INTENTION TO:

SUBSEQUENT REPORT OF:

TEST WATER SHUT-OFF	<input type="checkbox"/>	PULL OR ALTER CASING	<input type="checkbox"/>
FRACTURE TREAT	<input type="checkbox"/>	MULTIPLE COMPLETE	<input type="checkbox"/>
SHOOT OR ACIDIZE	<input type="checkbox"/>	ABANDON*	<input type="checkbox"/>
REPAIR WELL	<input type="checkbox"/>	CHANGE PLANS	<input type="checkbox"/>
(Other)	<input type="checkbox"/>		

WATER SHUT-OFF	<input type="checkbox"/>	REPAIRING WELL	<input type="checkbox"/>
FRACTURE TREATMENT	<input type="checkbox"/>	ALTERING CASING	<input type="checkbox"/>
SHOOTING OR ACIDIZING	<input checked="" type="checkbox"/>	ABANDONMENT*	<input type="checkbox"/>
(Other)	<input type="checkbox"/>		

(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.)*

6-6-78 - 6-8-78

1. Ran CIBP and set at 1040' KB. Dumped 3 Sx cement on CIBP. PBTD 1005' KB.
2. Perforated 4½" casing with 2 shots at 770' KB.
3. Loaded casing and broke circulation at 3 B/M at 200 psig.
4. Ran Baker squeeze retainer on 2 3/8" tubing and set at 722' KB.
5. Re-cemented 4½" casing with 175 Sx Class "C" with 15# salt/sx from 722' KB to 231' KB. Full returns thru out job. Picked up and reversed out 1/2 bbl cement.
6. WOC 48 hours.
7. Perforate Queen from 638' to 644' KB. (12 holes).
8. Acidized with 500 gals 15% NE acid. Formation broke at 2½ B/M at 650 psi. ISDP 500 psi; 10 min SIP 200 psi.
9. Swabbed load, acid and formation water. No shows of oil.

RECEIVED
JUN 29 1978
U.S. GEOLOGICAL SURVEY
ARTESIA, NEW MEXICO

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

SIGNED Perk Harder TITLE Engineer DATE June 27, 1978

(This space for Federal or State office use)

APPROVED BY Joe D. Lara TITLE ACTING DISTRICT ENGINEER DATE JUN 30 1978
CONDITIONS OF APPROVAL, IF ANY:

N. A. C. C. COPY
UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEYSUBMIT IN TRIPLICATE*
(Other instructions on
reverse side)Form approved.
Budget Bureau No. 42-R1425.

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK		5. LEASE DESIGNATION AND SERIAL NO. NM-7301
1a. TYPE OF WORK DRILL <input type="checkbox"/> DEEPEN <input type="checkbox"/> PLUG BACK <input checked="" type="checkbox"/>		6. IF INDIAN, ALLOTTEE OR TRIBE NAME
b. TYPE OF WELL OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/> SINGLE ZONE <input type="checkbox"/> MULTIPLE ZONE <input type="checkbox"/>		7. UNIT AGREEMENT NAME
2. NAME OF OPERATOR Harvey E. Yates Company ✓		8. FARM OR LEASE NAME East Lake Arthur Federal
3. ADDRESS OF OPERATOR P. O. Box 1933, Roswell, New Mexico 88201		9. WELL NO. 2
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements*) At surface 660' FNL & 1980' FWL		10. FIELD AND POOL, OR WILDCAT Wildcat
At proposed prod. zone Same		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Sec. 29, T-15S, R-27E
14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*		12. COUNTY OR PARISH Chaves
15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any)		13. STATE N. M.
16. NO. OF ACRES ASSIGNED TO THIS WELL 280		17. NO. OF ACRES ASSIGNED TO THIS WELL 40
18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.		20. ROTARY OR CABLE TOOLS
21. ELEVATIONS (Show whether DF, RT, GR, etc.) 3442.6' GL		22. APPROX. DATE WORK WILL START* June 6, 1978
23. PROPOSED CASING AND CEMENTING PROGRAM		
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT
SETTING DEPTH	QUANTITY OF CEMENT	

We intend to plug back, re-cement 4½" casing, perforate Queen formation and test as follows:

1. Run CIBP and set at 1040' KB with 3 Sx cement on top.
2. Perforate 4½" casing with 2 shots at 770' KB.
3. Load casing and break circulation.
4. If circulation is established, run Baker squeeze retainer and set at 722' KB.
5. Re-cement 4½" casing with 175 Sx cement.
6. WOC 48 hours.
7. Perforate Queen from 638' to 644'.
8. Acidize with 500 gals 15% NE and test.

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ARTESIA, NEW MEXICO

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24. SIGNED Park T. Lander TITLE Engineer DATE June 27, 1978
(This space for Federal or State office use)

PERMIT NO. _____ APPROVAL DATE _____

APPROVED BY Joe M. Lara TITLE ACTING DISTRICT ENGINEER DATE JUN 30 1978
CONDITIONS OF APPROVAL, IF ANY:

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

5. LEASE DESIGNATION AND SERIAL NO.

NM-7301

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

East Lake Arthur Federal

9. WELL NO.

2

10. FIELD AND POOL, OR WILDCAT

Wildcat

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

Sec, 29, T-15S, R-27E

12. COUNTY OR PARISH 13. STATE

Chaves

N.M.

1. OIL ☒ GAS ☐ OTHER ☐
WELL WELL

2. NAME OF OPERATOR

Harvey E. Yates Company ✓

3. ADDRESS OF OPERATOR

Post Office Box 1933, Roswell, New Mexico 88201

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

660' FNL & 1980' FWL

RECEIVED

JUN 30 1978

14. PERMIT NO.

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

3442.6' GL

O. C. C.

ARTESIA, OFFICE

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) Plug back, perf & test

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.)*

5/31/78 Set G/O CIBP @ 1880' KB w/35 ft cement on top w/bailer. PBSD 1845' KB.
Perforated Grayburg w/2 jet shots/ft from 1130' - 35' KB (10 holes).
Ran 2 3/8" tbg in hole & hung @ 1163' KB.

6/01/78 Acidized w/500 gals 15% DS-30. Formation broke @ 1200 psi & treated @
2.8 B/M @ 800 psi. ISDP 600 psi. 10" SDP 550 psi.

6/02/78 Swab tested. Recovered 28.5 BBL load & acid w/trace of oil and
& 6/03/78 swabbed dry.

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U.S. GEOLOGICAL SURVEY
ARTESIA, NEW MEXICO

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

SIGNED

TITLE Engineer

DATE 6/27/78

(This space for Federal or State office use)

APPROVED BY

TITLE ACTING DISTRICT ENGINEER

DATE JUN 30 1978

CONDITIONS OF APPROVAL, IF ANY:

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK

DRILL ☐DEEPEN ☐PLUG BACK ☒

b. TYPE OF WELL

OIL
WELL ☒GAS
WELL ☐

OTHER

SINGLE
ZONE ☐MULTIPLE
ZONE ☐

2. NAME OF OPERATOR

Harvey E. Yates Company ✓

3. ADDRESS OF OPERATOR

Post Office Box 1933, Roswell, New Mexico 88201

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)

At surface

At proposed prod. zone

660' FNL & 1980' FWL

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*

10. DISTANCE FROM PROPOSED*

LOCATION TO NEAREST
PROPERTY OR LEASE LINE, FT.
(Also to nearest drlg. unit line, if any)

16. NO. OF ACRES IN LEASE

280

18. DISTANCE FROM PROPOSED LOCATION*
TO NEAREST WELL, DRILLING, COMPLETED,
OR APPLIED FOR, ON THIS LEASE, FT.

19. PROPOSED DEPTH

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

3442.6 GL

23.

PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT

We intend to plug back, perforate Grayburg formation and test as follows:

1. Set CIBP on wireline @ 1880' & dump 35 ft cement on top CIBP.
2. Perf Grayburg 1130' to 1135' w/10 holes.
3. Acidize w/500 gals 15% DS-30.
4. Test.

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ARTESIA, NEW MEXICO

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24.

SIGNED

Beck T. Lander

TITLE

Engineer

DATE

6/27/78

(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

APPROVED BY

Lee A. Lara

TITLE

ACTING DISTRICT ENGINEER

DATE

JUN 30 1978

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-R1424.

5. LEASE DESIGNATION AND SERIAL NO.

NM-7301

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

East Lake Arthur Federal

9. WELL NO.

2

10. FIELD AND POOL, OR WILDCAT

Wildcat SA

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

Sec. 29, T-15S, R-27E

12. COUNTY OR PARISH

Chaves

13. STATE

N.M.

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

Harvey E. Yates Company

3. ADDRESS OF OPERATOR

Post Office Box 1933, Roswell, New Mexico 88201

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

660' FNL & 1980' FWL

RECEIVED

JUN 30 1978

14. PERMIT NO.

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

3442.6' GL

O. C. C.

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) Squeeze perfs; Re perf & test

(NOTE: Report results of multiple completion on Well
Completion or Recompletion 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 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.)*

5/17/78 Ran Halliburton SV-EZ drill retainer on tubing & set @ 1970' KB. Squeezed perfs 2074' to 2116' w/150 sxs Class "C" cement. Max pressure 1400 psi. Reversed out 1/2 BBL cement. POH w/tubing. WOC.

5/18/78 Perf Upper San Andres from 1918'-24' and 1934'-40' (2 holes). Ran tubing & packer. Set packer @ 1852' KB. Acidized w/2500 gals 15% DS-30/30 ball sealers. Formation broke @ 2350 psi & treated @ 3.4 B/M @ 2500 psi. ISDP 1600 psi. 10" SIP 1500 psi.

5/19/78 -

5/22/78 Swabbing load & acid water.

5/23/78 Swabbed 400' fluid (200' oil & 200' formation water). Pulled tubing & packer OOH.

5/24/78 Fracked via casing w/20,000 gals 3% gel acid in 2-10,000 gal stages w/18000 lbs 20/40 and 15000 lbs 100 mesh sand. Injected 15 ball sealers between stages. Treated @ 18B/M @ 3000 psi. ISDP 1600. 10" SIP 1400.

5/25/78 -

5/28/78 Swabbing load & acid water - no show of oil or gas. (Continued on back of page)

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

SIGNED

TITLE Engineer

DATE 6/27/78

(This space for Federal or State office use)

APPROVED BY

TITLE ACTING DISTRICT ENGINEER

DATE JUN 30 1978

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

Instructions

General: This form is designed for submitting proposals to perform certain well operations, and reports of such operations when completed, as indicated, on Federal and Indian lands pursuant to applicable Federal law and regulations, and, if approved or accepted by any State, on all lands in such State, pursuant to applicable State law and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office.

Item 4: If there are no applicable State requirements, locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local State or Federal office for specific instructions.

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.

GPO 680-379

(Continued)

5/29/78 -
5/30/78

SD.

5/31/78

Swabbed 19 BBLS black formation water.

Water Analysis:

Sp Gr	1.025
pH	7.0
Fe	Strong trace
H ₂ S	Strong trace
Na & K	4048 ppm
SO ₄	3000 ppm
Ca	7400 ppm
NaCl	49500 ppm
Mg	4010 ppm
Cl	30000 ppm
H ₂ CO ₃	1769 ppm

N. M. O. C. C. COPY
UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN TRIP. ATE*
(Other instructions on re-
verse side)

Form approved.
Budget Bureau No. 42-R1424.

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.)

<p>1. <input type="checkbox"/> OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER</p> <p>2. NAME OF OPERATOR Harvey E. Yates Company ✓</p> <p>3. ADDRESS OF OPERATOR Post Office Box 1933, Roswell, New Mexico 88201</p> <p>4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface 660' FNL & 1980' FWL</p> <p>14. PERMIT NO.</p>	<p>5. LEASE DESIGNATION AND SERIAL NO. NM-7301</p> <p>6. IF INDIAN, ALLOTTEE OR TRIBE NAME</p> <p>7. UNIT AGREEMENT NAME</p> <p>8. FARM OR LEASE NAME East Lake Arthur Federal</p> <p>9. WELL NO. 2</p> <p>10. FIELD AND POOL, OR WILDCAT Wildcat <u>2</u></p> <p>11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Sec. 29, T-15S, R-27E</p> <p>12. COUNTY OR PARISH Chaves</p> <p>13. STATE N.M.</p>
<p>15. ELEVATIONS (Show whether DF, RT, GR, etc.) 3442.6' GL</p>	

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JUN 30 1978

O. G. C.

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

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>
SHOOT OR ACIDIZE <input checked="" type="checkbox"/>	ABANDON* <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>
(Other) Squeeze perfs; re perf <input checked="" type="checkbox"/>	

SUBSEQUENT REPORT OF:

WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>
(Other) <input type="checkbox"/>	

(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.)*

- 5/17/78
1. Run Halliburton SV-EZ Drill retainer on tubing to 1970' KB.
 2. Squeeze perfs 2074' to 2116' w/150 sxs Class "C" cement.
 3. Perf upper San Andres 1918' to 1940' KB.
 4. Acidize w/2500 gals 15% DS-30.
 5. Test.

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ARTESIA, NEW MEXICO

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

SIGNED Paul T. Hardy TITLE Engineer DATE 6/27/78

(This space for Federal or State office use)

APPROVED BY Joe S. Lara TITLE ACTING DISTRICT ENGINEER DATE JUN 30 1978
CONDITIONS OF APPROVAL, IF ANY:

M. A. C. C. CORP.
UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEYSUBMIT IN TRIPLICATE
(Other instructions on reverse side)Form approved.
Budget Bureau No. 42-R1424.

5. LEASE DESIGNATION AND SERIAL NO.

NM-7301

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

East Lake Arthur Federal

WELL NO.

2

10. FIELD AND POOL, OR WILDCAT

Wildcat SA

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

Sec. 29, T-15S, R-27E

12. COUNTY OR PARISH

Chaves

13. STATE
N.M.1. OIL WELL ☒ GAS WELL ☐ OTHER ☐

2. NAME OF OPERATOR

Harvey E. Yates Company ✓

3. ADDRESS OF OPERATOR

Post Office Box 1933, Roswell, New Mexico 88201

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

660' FNL & 1980' FWL

14. PERMIT NO.

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

3442.6' GL

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) Plug back, perforate, test ☒
(NOTE: Report results of multiple completion on Well
Completion or Recompletion 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 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.)*

- 5/13/78 1. Ran G-O CIBP on wireline & set @ 2280' KB. Dumped 2 sxs cement on top of plug w/bailer. PB TD 2256' KB.
- 5/13/78 2. Perforated San Andres 2074'-86'; 2102'-08'; 2110'-16' KB. Total 48 holes.
- 5/15/78 3. Acidized w/2500 gals 15% DS-30 w/60 ball sealers. Formation broke @ 1600 psi & treated @ 3 B/M @ 1400 psi. ISDP 700 psi. 10" SDP 50 psi. Swabbed 90 BBL load, acid & formation water in 9 hrs.
- 5/16/78 Swabbed 200 BBL formation water - no shows oil or gas.

Water Analysis:

pH	8.0
Sp Gr	1.0 @ 86°
Cl	12000 ppm
Fe	trace
H ₂ S	good trace
H ₂ CO ₃	793
NaCl	19740

RECEIVED
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U.S. GEOLOGICAL SURVEY
ARTESIA, NEW MEXICO

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

SIGNED

TITLE Engineer

DATE 6/27/78

(This space for Federal or State office use)

APPROVED BY

TITLE

ACTING DISTRICT ENGINEER

DATE

JUN 30 1978

CONDITIONS OF APPROVAL, IF ANY:

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK

DRILL ☐DEEPEN ☐PLUG BACK ☒

b. TYPE OF WELL

OIL
WELL ☒GAS
WELL ☐

OTHER

SINGLE
ZONE ☐MULTIPLE
ZONE ☐

2. NAME OF OPERATOR

Harvey E. Yates Company ✓

3. ADDRESS OF OPERATOR

Post Office Box 1933, Roswell, New Mexico 88201

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)*

At surface

At proposed prod. zone

660' FNL & 1980' FWL

RECEIVED

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*

JUN 30 1978

15. DISTANCE FROM PROPOSED*

LOCATION TO NEAREST
PROPERTY OR LEASE LINE, FT.
(Also to nearest drig. unit line, if any)18. DISTANCE FROM PROPOSED LOCATION*
TO NEAREST WELL, DRILLING, COMPLETED,
OR APPLIED FOR, ON THIS LEASE, FT.

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

3442.6' GL

16. NO. OF ACRES IN LEASE

280

O. C. C. ARTESIA, OFFICE

17. NO. OF ACRES ASSIGNED
TO THIS WELL

40

19. PROPOSED DEPTH

20. ROTARY OR CABLE TOOLS

22. APPROX. DATE WORK WILL START*

5/13/78

23.

PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT

5/13/78

1. Run CIBP on wireline and set @ 2280' KB.
2. Spot 2 sx cement plug w/dump bailer on top CIBP.
3. Perforate SAN ANDRES 2074' - 2116'.
4. Acidize w/2500 gals 15% DS-30 acid.
5. Test.

RECEIVED
JUN 29 1978
U.S. GEOLOGICAL SURVEY
ARTESIA, N.E. MEXICO

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program if any.

24.

SIGNED

TITLE

Engineer

DATE

6/27/78

(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

APPROVED BY

TITLE

ACTING DISTRICT ENGINEER

DATE

JUN 30 1978

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions On Reverse Side

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN TRIPLICATE*
(Other instructions on reverse side)

Form approved.
Budget Bureau No. 42-R1424.

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"/>		5. LEASE DESIGNATION AND SERIAL NO. NM-7301	
2. NAME OF OPERATOR Harvey E. Yates Company ✓		6. IF INDIAN, ALLOTTEE OR TRIBE NAME	
3. ADDRESS OF OPERATOR Post Office Box 1933, Roswell, New Mexico 88201		7. UNIT AGREEMENT NAME	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.) At surface 660' FNL & 1980' FWL		8. FARM OR LEASE NAME East Lake Arthur Federal	
14. PERMIT NO.		9. WELL NO. 2	
15. ELEVATIONS (Show whether DF, RT, GR, etc.) 3442.6' GL		10. FIELD AND POOL, OR WILDCAT Wildcat S #	
		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Sec. 29, T-15S, R-27E	
		12. COUNTY OR PARISH Chaves	
		13. STATE N.M.	

RECEIVED

JUN 30 1978

O. C. C.

ARTESIA, OFFICE

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

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF	<input type="checkbox"/>	PULL OR ALTER CASING	<input type="checkbox"/>
FRACTURE TREAT	<input type="checkbox"/>	MULTIPLE COMPLETE	<input type="checkbox"/>
SHOOT OR ACIDIZE	<input type="checkbox"/>	ABANDON*	<input type="checkbox"/>
REPAIR WELL	<input type="checkbox"/>	CHANGE PLANS	<input type="checkbox"/>
(Other)	<input type="checkbox"/>		<input type="checkbox"/>

SUBSEQUENT REPORT OF:

WATER SHUT-OFF	<input type="checkbox"/>	REPAIRING WELL	<input type="checkbox"/>
FRACTURE TREATMENT	<input type="checkbox"/>	ALTERING CASING	<input type="checkbox"/>
SHOOTING OR ACIDIZING	<input type="checkbox"/>	ABANDONMENT*	<input type="checkbox"/>
(Other) Log, perforating & swabbing	<input checked="" type="checkbox"/>		<input type="checkbox"/>

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.)*

5/10/78 Ran GR-Collar log from 2373' to 500'.

5/11/78 Perf 2316'-2324' (16 shots)
Acidized w/500 gals 15% Spearhead. Formation broke @ 1700 psi & treated @ 1.8 B/M @ 1450 psi. ISIP 1250 psi. 10" SIP 1000 psi. Swabbed load. No show oil or gas.

5/12/78 Swabbed load, acid & salty formation water.

Water Analysis:

Density	1.025 @ 75°
Fe	Strong
Na-K	15410 ppm
Ca	5400 ppm
Mg	1823 ppm
Cl	38000 ppm
pH	7.0
H ₂ S	None
H ₂ CO ₃	1037
NaCl	62510

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ARTESIA, NEW MEXICO

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

SIGNED Paul Harder TITLE Engineer DATE 6/27/78

(This space for Federal or State office use)

APPROVED BY John G. Lara TITLE ACTING DISTRICT ENGINEER DATE JUN 30 1978

CONDITIONS OF APPROVAL, IF ANY:

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN TRIPLICATE
(Other instructions on reverse side)

Form approved.
Budget Bureau No. 42-R1424.

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"/>	5. LEASE DESIGNATION AND SERIAL NO. NM-7301
2. NAME OF OPERATOR Harvey E. Yates Company ✓	6. IF INDIAN, ALLOTTEE OR TRIBE NAME
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	9. WELL NO. 2
	10. FIELD AND POOL, OR WILDCAT Wildcat SA
	11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Sec. 29, T-15S, R-27E
14. PERMIT NO.	12. COUNTY OR PARISH Chaves
15. ELEVATIONS (Show whether DF, RT, GR, etc.) 3442.6' GL	13. STATE N.M.

JUN 30 1978

O. C. C.
ARTESIA, OFFICE

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

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF	<input type="checkbox"/>	PULL OR ALTER CASING	<input type="checkbox"/>
FRACTURE TREAT	<input type="checkbox"/>	MULTIPLE COMPLETE	<input type="checkbox"/>
SHOOT OR ACIDIZE	<input checked="" type="checkbox"/>	ABANDON*	<input type="checkbox"/>
REPAIR WELL	<input type="checkbox"/>	CHANGE PLANS	<input type="checkbox"/>
(Other) Log, perf & test	<input checked="" type="checkbox"/>		

SUBSEQUENT REPORT OF:

WATER SHUT-OFF	<input type="checkbox"/>	REPAIRING WELL	<input type="checkbox"/>
FRACTURE TREATMENT	<input type="checkbox"/>	ALTERING CASING	<input type="checkbox"/>
SHOOTING OR ACIDIZING	<input type="checkbox"/>	ABANDONMENT*	<input type="checkbox"/>
(Other)	<input type="checkbox"/>		

(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.)*

- 5/10/78
1. Run GR-collar log
 2. Perforate SAN ANDRES 2316' to 2324' w/2 shots/ft
 3. Acidize w/500 gal 15% Spearhead
 4. Test

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

SIGNED Peck Hardu TITLE Engineer DATE 6/27/78

(This space for Federal or State office use)

APPROVED BY Joe J. Lara TITLE ACTING DISTRICT ENGINEER DATE JUN 30 1978
CONDITIONS OF APPROVAL, IF ANY: