

HEYCO

PETROLEUM PRODUCERS



HARVEY E. YATES COMPANY

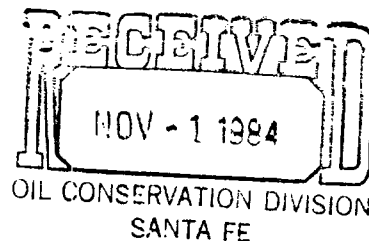
P. O. BOX 1951

SUITE 300 SECURITY NATIONAL BANK BUILDING

505/623-6601

ROSWELL, NEW MEXICO 88201

October 31, 1984



Oil Conservation Division
P. O. Box 2088
Santa Fe, New Mexico 87501

Case 8414

Attention: Mr. Dick Stamets

Re: Request for Administrative Approval to Convert the Stebbins Deep
Federal #4 to a Salt Water Disposal Well

Dear Mr. Stamets:

Please find attached two copies of an application for administrative approval to convert the Stebbins Deep Federal #4 to a Salt Water Disposal well located Section 30, T-20S, R-29E, Eddy County, New Mexico.

If there is need of further information regarding this matter, please do not hesitate to contact my office.

Sincerely yours,

Ray F. Nokes
Reservoir Engineer

RFN:mlb

Enclosures

cc: BLM Carlsbad, NM
OCD Artesia, NM

*Set for hearing.
Yates has a well approx
.2 mile away from proposed
SWD well which is producing
from same zone, according
to Larry Brooks in Artesia*

D.C.

UNITED STATES
DEPARTMENT OF THE INTERIOR

GEOLOGICAL SURVEY

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1. TYPE OF WORK

DRILL ☐DEEPEN ☐PLUG BACK ☐

2. TYPE OF WELL

OIL
WELL ☒GAS
WELL ☐OTHER ReentrySINGLE
ZONE ☒MULTIPLE
ZONE ☐

3. NAME OF OPERATOR

Harvey E. Yates Company

4. ADDRESS OF OPERATOR

P. O. Box 1933, Roswell, New Mexico 88201

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

At surface 990' FNL & 330' FEL

At proposed prod. zone

Same

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

11 miles NE of Carlsbad, New Mexico

7. DISTANCE FROM PROPOSED

LOCATION TO NEAREST

PROPERTY OR LEASE LINE, FT.

(Also to nearest drilg. unit line, if any)

330'

8. NO. OF ACRES IN LEASE

2150.97

9. DISTANCE FROM PROPOSED LOCATION*

TO NEAREST WELL, DRILLING, COMPLETED,

OR APPLIED FOR, ON THIS LEASE, FT.

660'

10. PROPOSED DEPTH

3364

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

3250' GR

12.

PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
ISTING 17 1/2" / 11"	8 5/8"	24#	670'	100 SXS
11 7/8"	4 1/2"	9.5#	3364	See Note CIRCULATE

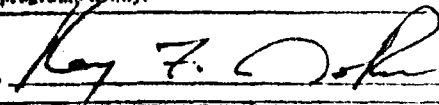
NOTE: If commercial production is encountered, we will run and cement 4 1/2" casing in a manner satisfactory with the Bureau of Land Management.

See procedure attached.

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.

34.

SIGNED



TITLE Reservoir Engineer

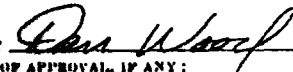
DATE June 6, 1984

(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

APPROVED BY



CONDITIONS OF APPROVAL, IF ANY:

Asst. AREA MANAGER

CARLSBAD RESOURCE AREA

DATE

July 19, 1984

APPROVAL SUBJECT TO
GENERAL REQUIREMENTS AND
SPECIAL STIPULATIONS
ATTACHED

(Re-Entry)

COMPLETION SCHEDULE

WELL: Stebbins Deep-Federal #4

DATE: June 6, 1984

LOCATION: 990' FNL & 330' FEL, Sec. 30, T-20S, R-29E

FIELD: Scanlon Delaware

ELEVATION: 3240' KB

TD: 3364'

PBTD: P & A

<u>CASING RECORD:</u>	<u>SIZE</u>	<u>WT. & GRADE</u>	<u>DEPTH</u>	<u>CEMENT</u>	<u>CEMENT TOP</u>
	8 5/8"	24#	670'	100 sacks	Surface

FORMATION TOPS: Yates 753'
Delaware Sd 3230

PRESENT PERFORATIONS: - None

PRESENT PRODUCTION: P & A

RECOMMENDED PROCEDURE: (Re-entry & test Delaware pay)

- 1) MI & clean out cellar. Cut off dry hole marker & dress 8 5/8" csg w/Larkin slip on well head. Screw on adaptor flange to Larkin head.
- 2) MI & RU PU. NU BOP.
- 3) GIH w/7 7/8" bit, collars & 2 3/8" tbg & drill 20' surface plug, and 100' plugs @ 630'-730', 1140'-1240', & 3200'-3300' and clean out to 3400' for logging. Circ hole clean w/1% KCL & prepare to run open hole logs (CNL/FDC & DLL depending on chlorides).
- 4) RU Dresser Atlas & run porosity & resistivity logs.
- 5) RU & run 4 1/2" 10.5# J-55 csg to TD. Cement w/sufficient quantity to ~~cover zone of interest @ approximately 3380' to 3290'.~~ *Circulate - Capitan Reef* WOC 18 hours.
- 6) GIH w/bit & scraper & clean out to 3390'. POH.
- 7) GIH w/3 3/8" csg gun & perforate per logs evaluation. POH.
- 8) GIH w/4 1/2" Model R pkr & spot 200 gals 7 1/2% MSR-100 w/anionic surfactants & phosphates over perfs. Pull pkr above perfs & breakdown perfs.
- 9) Swab to test. If shows, POH & RU to frac down csg. RU frac head.
- 10) Frac down 4 1/2" 9.5# csg w/20,000 gals 75 quality Methanol foam frac & 30,000#, 10-20 sd. SI 2 hours & open to pit.
- 11) GIH w/SN & 2 3/8" tbg & reverse sd out of csg to PBTD. Pull tbg off bottom & leave below perfs.
- 12) ND BOP, NU tree. Run rods & pump, MI artificial lift equipment.
- 13) Turn over to pumper.

Ray F. Nokes
Reservoir Engineer
Harvey E. Yates Company
P. O. Box 1933
Roswell, New Mexico 88201

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

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 Form 9-331-C for such proposals.)

1. oil ☒ well ☒ gas ☐ well ☐ other

2. NAME OF OPERATOR

Harvey E. Yates Company

3. ADDRESS OF OPERATOR

P. O. Box 1933, Roswell, NM 88201

4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)

AT SURFACE: 990' FNL & 330' FEL

AT TOP PROD. INTERVAL:

AT TOTAL DEPTH: Same

16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

REQUEST FOR APPROVAL TO:

TEST WATER SHUT-OFF ☐

FRACATURE TREAT ☐

SHOOT OR ACIDIZE ☐

REPAIR WELL ☐

PULL OR ALTER CASING ☐

MULTIPLE COMPLETE ☐

CHANGE ZONES ☐

ABANDON* ☐

(other)

SUBSEQUENT REPORT OF:

☐

☒

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5. LEASE

NM-03677

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Stebbins Deep Federal

9. WELL NO.

4

10. FIELD OR WILDCAT NAME

Scanlan-Delaware

11. SEC., T., R., M., OR B.L. AND SURVEY OR AREA

Sec. 30, T-20S, R-29E

12. COUNTY OR PARISH 13. STATE

Eddy

NM

14. ALT NO.

15. ELEVATIONS (SHOW DF, KDB, AND WD)

3250' GL

(NOTE: Report results of multiple completion or zone change on Form 9-330.)

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.)*

7/28/84 Clean out hole from 803' to 3364'.

8/01/84 Run 9.5# 4 1/2" csg to 3352' w/DV tool @ 2020'. Pump 385 sxs class "C" cmt. on first stage, on second stage pump 585 sxs class "C" cmt. Circ 10 sxs.

8/03/84 Perf from 3285'-86', 3299', 3300-01', 3306'-08'. (9 holes). Spot 200 gal acid. Acidize w/200 gal 7 1/2% MCA.

8/04/84 Acidize w/1000 gal 7 1/2% MCA

8/07/84 Frac w/20,000 gal 70% quality methynol on frac.

8/08/84 Hang well on pump.

Subsurface Safety Valve: Manu. and Type

Set @ _____ Ft.

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

SIGNED

TITLE Reservoir Engineer

8/20/84

ACCEPTED FOR RECORD

(this space for Federal or State office use)

APPROVED BY

CONDITIONS OF APPROVAL, IF ANY:

TITLE

DATE

AUG 22 1984

NEW MEXICO

*See Instructions on Reverse Side

HARVEY E. YATES COMPANY
Well History Summary Sheet

Operator Harvey E. Yates Company Well Name & # Stebbins Deep Federal #4 Lease #
District Artesia Made By Machelle Byrum Date 9/26/84
Location 990' FNL & 330' FEL, Sec. 30, T-20S, R-29E
Spud Date 7/18/67 Compl. Date 8/7/84 TD 3364' PBTD 3341'
Type Well: Oil ☒ Gas ☐ Other ☐ Field
I P Zone Delaware
Perfs.: 3285'-86'; 3299; 3300-01'; 3306'-08' Total Holes 9
Stimulation
Cumul. Oil 0 MCF Water 3197
Recent Test Lift Equipment
Misc. Elevation: 3250' GR

WELL HISTORY

*Note: Circulated 10 sxs cement to surface
TOC @ surface.

Surface: 8 5/8 "
24 # Gr.
@ 670' Cmt. w/
100 Sx. TOC
Hole Size 11 "
Max Mud Wt. #/G
Intermediate:
" #
Gr @
Cmt w/ Sx.
TOC @ Hole
Size " Max Mud
Wt. #/G

2-3/8" tbg set @ 3300'
Perf from 3285'-86'
Perf @ 3299'
Perf from 3300'-01'
Perf from 3206'-08'

Production: 4 1/2" "
9.5 # Gr.
@ 3352' Cmt. w/
970 Sx. TOC @
 Hole Size
7 7/8 Max Mud Wt.
 #/G
TD 3364'

Tubing 2 3/8 " J-55 Gr. @ 3300'
Tubing " Gr. @
Packer @

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

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 Form 9-331-C for such proposals.)

1. oil ☒ gas ☐
well well other

2. NAME OF OPERATOR

Harvey E. Yates Company

3. ADDRESS OF OPERATOR

P. O. Box 1933, Roswell, NM 88201

4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)

AT SURFACE: 1980' FNL & 990' FEL

AT TOP PROD. INTERVAL:

AT TOTAL DEPTH: Same

16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

REQUEST FOR APPROVAL TO:

TEST WATER SHUT-OFF ☐

FRACTURE TREAT ☐

SHOOT OR ACIDIZE ☐

REPAIR WELL ☐

PULL OR ALTER CASING ☐

MULTIPLE COMPLETE ☐

CHANGE ZONES ☐

ABANDON* ☐

(other)

SUBSEQUENT REPORT OF

☐

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5. LEASE

NM-03677

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Stebbins Deep Federal

9. WELL NO

1

10. FIELD OR WILDCAT NAME

Scanlon Delaware

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

Sec. 30, T-20S, R-29E

12. COUNTY OR PARISH 13. STATE

Eddy

NM

14. API NO.

15. ELEVATIONS (SHOW DE, KDB, AND WD)

3236' GL

(Note: Report results of multiple completion or zone change on Form 9-330.)

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.)

4/06/84 MI & RU PU, ND Tree & NU BOP.

4/07/84 Set pkr & pump into Strawn & Morrow Perfs @ 2 BPM w/2200#. Pump 500 gal 20% HCL Fin GIH w/pkr to 10,408' & set to isolate injection zone from delaware.

4/10/84 GIH w/SN, 2 3/8" tbg & Hang in Dual tbg hanger. GIH w/pump & rods & hang on to produce from the delaware formation.

Subsurface Safety Valve: Manu. and Type

Set @ Ft.

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

SIGNED

Ray T. ...

TITLE Res. Engineer

DATE

May 17, 1984

ACCEPTED FOR RECORD

(This space for Federal or State office use)

APPROVED BY

SWP

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY

MAY 23 1984

Carlsbad

NEW MEXICO

*See Instructions on Reverse Side

SWP 2-1-84

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

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 Form 9-331-C for such proposals.)

1. oil ☒ gas ☐ other ☐
well well

2. NAME OF OPERATOR
Harvey E. Yates Company

3. ADDRESS OF OPERATOR
P. O. Box 1933, Roswell, New Mexico 88201

4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)
AT SURFACE: 1980' FNL & 990' FEL
AT TOP PROD. INTERVAL:
AT TOTAL DEPTH: Same

16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

REQUEST FOR APPROVAL TO: SUBSEQUENT REPORT OF:

TEST WATER SHUT-OFF	☐	☐
FRACTURE TREAT	☐	☐
SHOOT OR ACIDIZE	☐	☐
REPAIR WELL	☐	☐
PULL OR ALTER CASING	☐	☐
MULTIPLE COMPLETE	☐	☐
CHANGE ZONES	☐	☒
ABANDON*	☐	☐
(other)	☐	☐

5. LEASE
NM-03677

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME
Stebbins Deep Federal

9. WELL NO.
1

10. FIELD OR WILDCAT NAME
Scanlon Delaware

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
Sec. 30, T-20S, R-29E

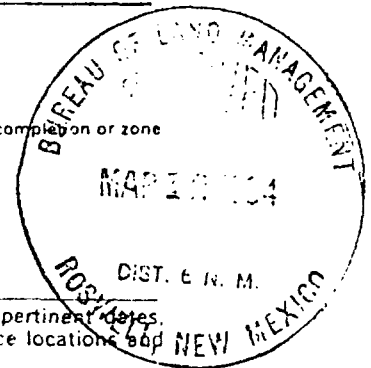
12. COUNTY OR PARISH
Eddy

13. STATE
NM

14. API NO.

15. ELEVATIONS (SHOW DF, KDB, AND WD)
3236' GL

(NOTE: Report results of multiple completion or zone change on Form 9-330.)



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.)

12/19/83 MI & RU CU.
01/03/84
to Milling on pkr.
01/18/84
01/19/84 Run free pt, found tbg free @ 5800'. RIH w/chemical cutter, cut 2 3/8" tbg @ 5790'.
02/02/84 Rec on/off tool, seal assembly, 840' of 2 3/8" tbg & bot hole assembly.
02/03/84 RIH w/6" bit, 7" scrapper & 2 7/8" tbg, clean csg out to 10,476'.
02/07/84 RIH w/7" RBP & RTTS, Set BP @ 3380', set RTTS @ 3310'.
02/08/84 SITP 650#, BD in 15", had show of oil & gas.
02/09/84 POH w/ 2 3/8" tbg, 7" pkr & plug. RIH w/SN & 2 3/8" tbg. SN @ 3472', RD BOP, NU Tree. RD CU. Put well on temporary prod to test Delaware production.

Subsurface Safety Valve: Manu. and Type _____ Set @ _____ Ft.

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

SIGNED [Signature] ACCEPTED FOR RECORD TITLE Res. Engineer DATE March 8, 1984

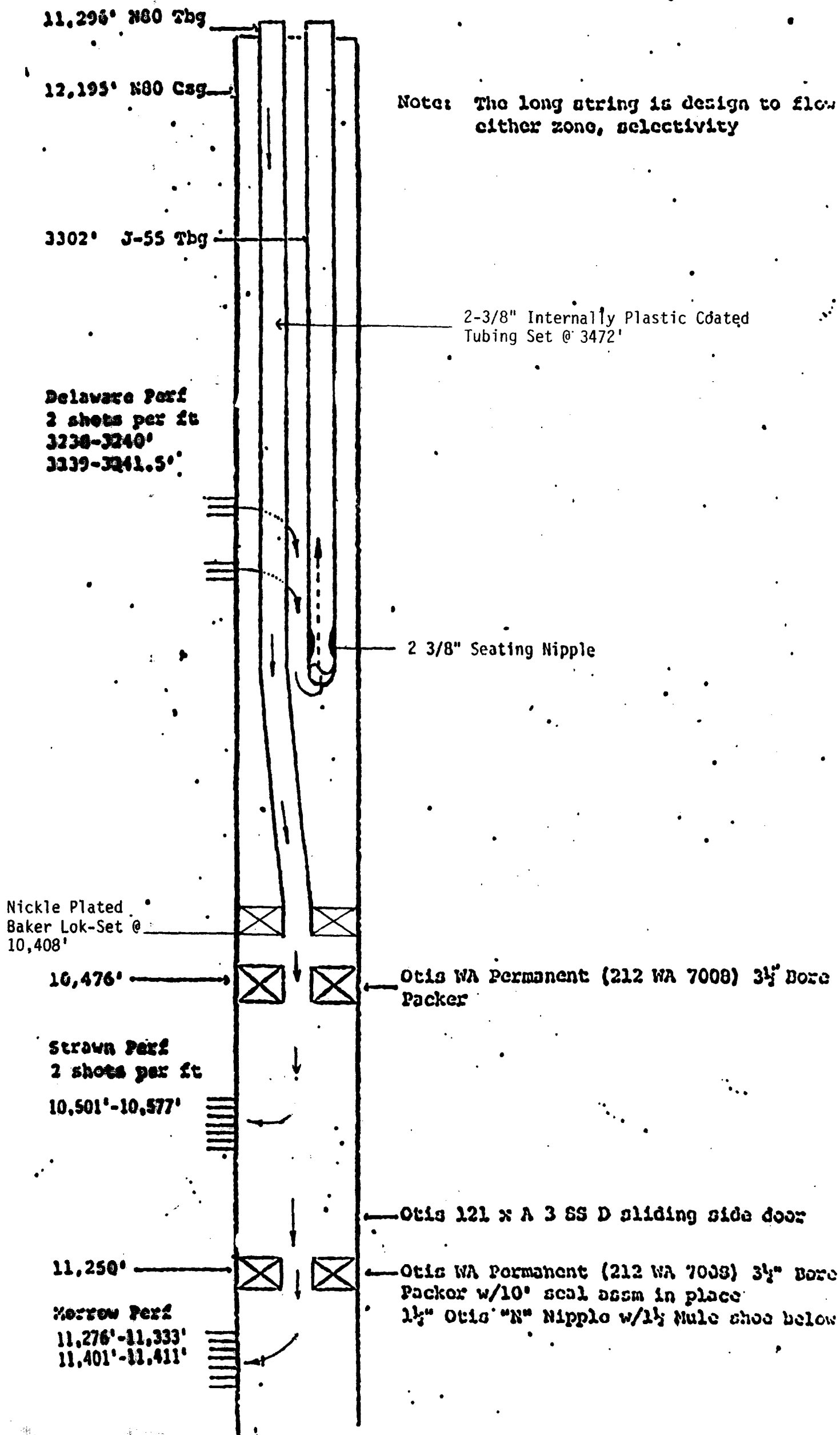
(This space for Federal or State office use)

APPROVED BY [Signature] DATE MAY 15 1984 TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

Carlsbad, NEW MEXICO

STEBBINS DEEP FEDERAL #1
SECTION 30-20-29, EDDY CO., NEW MEXICO
Delaware Production and Downhole Injection Assembly



UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN DUPLICATE*

(See other in-
structions on
reverse side)Form approved,
Budget Bureau No. 42-R355.5.

WELL COMPLETION OR RECOMPLETION REPORT AND LOG *

1. TYPE OF WELL: OIL WELL ☒ GAS WELL ☐ DRY ☐ Other _____		5. LEASE DESIGNATION AND SERIAL NO. NM 03677	
2. TYPE OF COMPLETION: NEW WELL ☒ WORK OVER ☐ DEEP-EN ☐ PLUG BACK ☐ DIFF. RENVR. ☐ Other _____		6. IF INDIAN, ALLOTTEE OR TRIBE NAME _____	
3. NAME OF OPERATOR Harvey E. Yates		7. UNIT AGREEMENT NAME _____	
4. ADDRESS OF OPERATOR 305 Carper Building - Artesia, New Mexico		8. FARM OR LEASE NAME Stebbins Deep Fed.	
9. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)* At surface 1980 FN and 990 FE Line Sec. 30-20S-29E At top prod. interval reported below At total depth		9. WELL NO. 1	
10. FIELD AND POOL, OR WILDCAT Wildcat		11. SEC. T., R., M., OR BLOCK AND SURVEY OR AREA 30-20S-29E	
12. PERMIT NO. 4-15-66		13. COUNTY OR PARISH Eddy	
14. DATE SPUNDED 4-17-66		15. DATE T.D. REACHED 7-9-66	
16. DATE COMPL. (Ready to prod.) 9-15-66		17. ELEVATIONS (DP, RKB, BT, GR, ETC.)* 3236 GR	
18. TOTAL DEPTH, MD & TVD 13,391		19. ELEV. CASINGHEAD 3236	
20. PLUG BACK T.D., MD & TVD 3390 11,900		21. IF MULTIPLE COMPL., HOW MANY* →	
22. INTERVALS DRILLED BY →		23. ROTARY TOOLS 0-13,391	
24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)* 3238-3240 Set 6 noles 3339-3341 Shot 6 holes (2 holes per ft.)		25. WAS DIRECTIONAL SURVEY MADE No	
26. TYPE ELECTRIC AND OTHER LOGS RUN		27. WAS WELL CORED No	
28. CASING RECORD (Report all strings set in well)			
CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE
13-3/8"	48	720	17 1/2
9-5/8"	36	3170	12 1/4
7"	23.26.29	12.195	8-3/4
CEMENTING RECORD			
AMOUNT PULLED:			
350 SX			
800 SX			
1350 SX			
29. LINER RECORD			
SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*
30. TUBING RECORD			
SIZE	DEPTH SET (MD)	BUCKER SET (MD)	
2-3/8	3236		
31. PERFORATION RECORD (Interval, size and number)			
3238- Sand Jet 3 noles			
3240- Sand Jet 3 noles			
3339-3341 (3' with 2 shots per ft.)			
32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.			
DEPTH INTERVAL (MD)		AMOUNT AND KIND OF MATERIAL USED	
3238-3240		4000 gal acid 5000# sd.	
3339-3341		4000 gal acid 10,000# sd.	
33. PRODUCTION			
DATE FIRST PRODUCTION 9-8-66		PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump) Pumping 1-25/32" tubing pump	
DATE OF TEST 9-8-66		WELL STATUS (Producing or shut-in) Producing	
HOUR TESTED 10	CHOKE SIZE 2"	PROD. FOR TEST PERIOD →	OIL—BBL. 40
GAS—MCF. TSTM		WATER—BBL. 3	
GAS-OIL RATIO 41 deg.		OIL GRAVITY-API (CORR.)	
FLOW, TUBING PRESS.		CASING PRESSURE 0	
CALCULATED 24-HOUR RATE →		OIL—BBL. 96	
GAS—MCF. TSTM		WATER—BBL. 8	
DISPOSITION OF GAS (Sold, used for fuel, vented, etc.) Gas will be used for pump jack engine. Butane for fuel		TEST WITNESSED BY M. B. Morris	
35. LIST OF ATTACHMENTS			
36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records			
SIGNED <i>James E. Yates</i>		TITLE Supt.	
DATE 9-22-66			

*(See Instructions and Spaces for Additional Data on Reverse Side)

General: This form is designed for submitting a complete and correct well completion report and log on all types of lands and leases to either a Federal agency or a State agency, or both, pursuant to applicable Federal and/or State laws 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. See instructions on items 22 and 24, and 33, below regarding separate reports for separate completions.

If not filed prior to the time this summary record is submitted, copies of all currently available logs (drillers, geologists, sample and core analysis, all types electric, etc.), formation and pressure tests, and directional surveys, should be attached hereto, to the extent required by applicable Federal and/or State laws and regulations. All attachments should be listed on this form, see item 35.

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 12: Indicate which elevation is used as reference (where not otherwise shown) for depth measurements given in other spaces on this form and in any attachments.

Items 22 and 24: If this well is completed for separate production from more than one interval zone (multiple completion), so state in item 22, and in item 24 show the producing interval, or intervals, top(s), bottom(s) and name(s) (if any) for only the interval reported in item 31. Submit a separate report (page) on this form, adequately identified, for each additional interval to be separately produced, showing the additional data pertinent to such interval.

Item 29: "Nicks (concentrations)": Attached supplemental records for this well should show the details of any multiple stage cementing and the location of the cementing tool.

Item 33: Submit a separate completion report on this form for each interval to be separately produced. (See instruction for items 22 and 24 above.)

37. SUMMARY OF FORMER ZONES: SHOW ALL IMPORTANT ZONES OF POROSITY AND CONTENTS THROUGHOUT CORED INTERVALS; AND ALL DRILL-STEM TESTS, INCLUDING DEPTH INTERVAL TESTED, CUSHION USED, TIME TOOL OPEN, FLOWING AND SHUT-IN PRESSURES, AND RECORDS			38. GEOLOGIC MARKERS			
FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.	NAME	MEAS. DEPTH	TRUE VERT. DEPTH
			See Attached sheet	Kustler	333'	
				Top Salt	588'	
				Base Salt	657'	
				Transill	723'	
				Yates	813'	
				Capitan Massive		
				Reef	1020'	
				First Delaware	SS 3160'	
				Bone Springs	5750'	
				3rd Bone Springs		
					3810'	
				Wolfcamp	9190'	
				Strawn	10366'	
				Atoka	10596'	
			Morrow	11230'		
			Barnett Sh.	12023'		
			Miss ls	12145'		
			Woodford Sh	12628'		
			Devonian	12712'		

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

5. LEASE DESIGNATION AND SERIAL NO.

M 63677

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Stebbins Ranch Deep (21)

9. WELL NO.

1

10. FIELD AND POOL, OR WILDCAT

Wildcat

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

30-203-29E

14. PERMIT NO.

15. ELEVATIONS (Show whether DE, RT, CR, etc.)

3236 CR

12. COUNTY OR PARISH 13. STATE

Eddy

N.M.

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

(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.)

We ran 720' of 13-3/8" csg. 35#.

Cemented w/350 cks incore w/2% gel.

150 cks next w/2% CaCl.

Plug down @ 3:30 A.M.

Had circulation into cellar. Settled back to 45'. Filled hole w/ready-mix concrete.

CONFIDENTIAL

(This space for operator's use)

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

SIGNED

Bookkeeper

April 20, 1966

(This space for Federal or State office use)

TITLE

DATE

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

APR 20 1966
DISTRICT ENGINEER

*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.

5. LEASE, PERMIT, AND SERIAL NO.

44 03677

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.)

OIL WELL ☒ GAS WELL ☐ OTHER ☐

NAME OF OPERATOR

Harvey E. Yates

ADDRESS OF OPERATOR

305 Carper Bldg., Artesia, N.M.

LOCATION OF WELL (Report location clearly and in accordance with any State requirements.
See also space 11 below.)

At surface 1920 Gr N and 990 Gr E, 30-20S-29E

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME
Stebbins 40% Deep Fed.

9. WELL NO. 1

10. FIELD AND POOL, OR WILDCAT
Wildcat

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

30-20S-29E

PERMIT NO.

12. ELEVATIONS (Show whether DT, ST, GR, etc.)

3236

12. COUNTY OR PARISH
Eddy

13. STATE
N.M.

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 ☒ Running 9-5/8" CSG

(Other) ☐

REPAIRING WELL ☐

ALTERING CASING ☐

ABANDONMENT* ☒

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

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.)

We ran 98 jts., 3170' of 9-5/8" 36# J 55 Std thd short thd and collar seamless CSG.
Set @ 3169'. Cemented w/650 sks liner through CSG shoe. 150 sks through D.V. tool.
Set @ 1063' w/baskets set @ 1078', 1099', 1129' and one above tool @ 871', with
good circulation to collar through D.V. tool. Total sks cnt - 800

CONFIDENTIAL

RECEIVED
APR 27 1966
U. S. GEOLOGICAL SURVEY
ARTESIA, NEW MEXICO

I hereby certify that the foregoing is true and correct

SIGNED

TITLE

Bookkeeper

DATE

April 27, 1966

(This space for Federal or State office use)

APPROVED

CONDITIONS OF APPROVAL, IF ANY:

TITLE

DATE

APPROVED
APR 27 1966
H. L. ...
ACTING DISTRICT ENGINEER

*See Instructions on Reverse Side

9-331
y 1963

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN THE DATE
(Other Instructions on reverse side)

Form approved.
Budget Bureau No. 42-R1424.
6. LEASE DENOMINATION AND SERIAL NO.

NM 03677

7. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

Stebbins Deep Fed.

8. FARM OR LEASE NAME

1

9. WELL NO.

Wildcat

10. FIELD AND POOL, OR WILDCAT

30-20S-29E

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

12. COUNTY OR PARISH 13. STATE

Eddy

N.M.

OIL WELL ☒ GAS WELL ☐ OTHER ☐

NAME OF OPERATOR

Harvey E. Yates

ADDRESS OF OPERATOR

305 Carper Bldg., Artesia, New Mexico

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

At surface

1980 fr N and 990 fr E, 30-20S-29E

PERMIT NO.

16. ELEVATIONS (Show whether DT, RT, CR, etc.)

3236 GR

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

NOTICE OF INTENTION TO:

TEXT WATER SHUT-OFF

FRACURE TREAT

SHOOT OR ACIDIZE

REPAIR WELL

(Other)

PULL OR ALTER CASING

MULTIPLE COMPLETE

ABANDON*

CHANGE PLANS

SUBSEQUENT REPORT OF:

WATER SHUT-OFF

FRACURE TREATMENT

SHOOTING OR ACIDIZING

(Other)

Running of 7" casing

REPAIRING WELL

ALTERING CASING

ABANDONMENT*

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

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.)

We ran 290 jts. 12,195' of 7" csg. With a float shoe and float collar on bottom jt. th 15 centralizers, one on every other collar for 30 jts. We also ran a Halliburton V. Packer collar set at 10936', a Halliburton D. V. Mult, - Stage Cementer set at 86' with 2 Halliburton Cement Baskets placed at 4528' and 4570'.

AGE #1 - Cemented via shoe with 350 sacks of Type C - containing 2% Gel, 1.25% CRR-2 and 8# Salt Per Sack.

AGE #2 - Cemented via Halliburton D. V. Packer Collar with 500 sacks of trinity. te Water-containing 8# Salt Per Sack.

AGE #3 - Cemented Via Halliburton D. V. Multi-Stage Cementer with 500 sacks of 2-50 Pozmix A - Type C with 10# Salt Per Sack.

otal of 1350 Sacks.

OTE - Casing in hole-

1 in hole 26 Jts	1055'	29#	P110
2 in hole 68 Jts	2818'	29#	N80
3 in hole 61 Jts	2614'	26#	N80
4 in hole 63 Jts	2912'	23#	N80
5 in hole 67 Jts	2722'	23#	N80 Buttress

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

Plus float shoe, float collar & D. V. Tools.

SIGNED

TITLE Bookkeeper

DATE July 11, 1966

(This space for Federal or State office use)

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL

APPROVED

JUL 11 1966

*See Instructions on Reverse Side

OPERATOR'S COPY
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.

NM 03677

7. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Stebbins Deep Fed..

9. WELL NO.

1

10. FIELD AND POOL, OR WILDCAT

Wildcat

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

30-20-29

14. PERMIT NO.

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

3236 GR

12. COUNTY OR PARISH

Eddy

13. STATE

NM

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

NOTICE OF INTENTION TO:

SUBSEQUENT REPORT OF:

TEST WATER SHUT-OFF

FULL OR ALTER CASING

WATER SHUT-OFF

REPAIRING WELL

FRAC. TREAT

MULTIPLE COMPLET.

FRACTURE TREATMENT

ALTERING CASING

ACIDIZING

ABANDON*

SHOOTING OR ACIDIZING

ABANDONMENT*

CHANGE PLANS

(Other)

(NOTE: Report results of multiple completion on Well
Completion or Recompletion Report and Log form.)17. UNFINISHED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any
work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones perti-
nent to this work.)*

perforated the Morrow sand section at the following depth on
19 July 1966. 11,276, 11,281, 11,282, 11,295, 11,296, 11,297, 11,331,
11,333. Treated with 1000 gals M.A. Treating pressure 3200 psi.
Swabbed back load. Est. Prod. 200 MCF gas per day.

On 23 July 1966 we perforated the lower Morrow at 11,401, 11,403, 11,406,
11,407, 11,408, 11,409, 11,410, and 11,411. Treated with 750 gals.
with 2000 gals alcohol. Treating press. 3400# thru tubing. No
increase in gas.

On 22 August 1966, we treated all the Morrow perfs. with 20,000 gals.
alcohol and brine water Jet with 7500# 20-40 sand and 2500# glass beads.
Treating press. 5400#. Injection rate 30 BPM. Swabbed load and flow-
ing some drilling mud.
Est. production 1,500,000 CFGPD.

RECEIVED
SEP 23 1966
U.S. GEOLOGICAL SURVEY
ARTESIA, NEW MEXICO

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

SIGNED

TITLE

Supt.

DATE 9-22-66

(This space for Federal or State office use)

APPROVED BY

TITLE

DISTRICT ENGINEER

DATE

SEP 23 1966

CONDITIONS OF APPROVAL, IF ANY:

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEYSUBMIT 1. DUPLICATE*
(Other instructions on re-
verse side)Form approved.
Budget Bureau No. 42-R1424.
6. LEASE DESIGNATION AND SERIAL NO.

NM 03677

8. 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 ☒ GAS WELL ☐ OTHER ☐	7. UNIT AGREEMENT NAME
2. NAME OF OPERATOR Harvey S. Yates	8. FARM OR LEASE NAME Stebbins Deep Fed.
3. ADDRESS OF OPERATOR 305 Carper Building - Artesia, New Mexico	9. WELL NO. 1
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.) At surface 1980 FN & 990 FE Line of Sec. 30-T20S-R29E	10. FIELD AND POOL, OR WILDCAT Wildcat
14. PERMIT NO.	15. ELEVATIONS (Show whether OF, RT, GR, etc.) 3236 GR
	12. COUNTY OR PARISH Eddy
	13. STATE N.M.

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)

FILL OR ALTER CASING

MULTIPLE COMPLETION

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 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.)

Strawn Perforations and Treatments

Aug. 16, 1966 - Perforate strawn sec. with 4-1/8" csg. gun with 2 shots per foot alternating reg. and crack jet in the intervals: 10521-10523, 10535-10538, 10575-10577.

Aug. 17, 1966-Treat all strawn perfs with 500 gals MCA 15% acid, ~~AV~~ treating press. 4900 psi. Swab down and flow gas TSTM.

Aug. 18, 1966-Treat all Strawn perfs with 2000 gal MCA 15% acid, ~~AV~~ treating press 5500 psi and inject 5 balls. Swab down and flow gas TSTM, slight increase in gas.

Aug. 22, 1966 - Treat all Strawn perfs with 2000gals Reg. 15% acid, 5000 gals CRA spearheaded with 250 gals MCA, inject. tot of 41 balls during treatment. ~~AV~~ treating pressure 6500 psi.

Aug. 23, 1966-Swab down and flow est. 200,000 CFGPD from all Strawn perfs.

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

SIGNED James D. Monahan

TITLE

DATE 9-22-66

(This space for Federal or State office use)

APPROVED BY Joe C. R. [Signature]

TITLE

DATE SEP 23 1966

CONDITIONS OF APPROVAL, IF ANY:

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

6. LEASE DESIGNATION AND SERIAL NO.

NM 03677

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Stebbins Deep Fed.

9. WELL NO.

1

10. FIELD AND POOL, OR WILDCAT

Wildcat

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

30-20-29

12. PERMIT NO.

13. ELEVATIONS (Show whether OF, BT, CR, etc.)

3236 GR

12. COUNTY OR PARISH

Eddy

13. STATE

N.M.

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 COMPLETION

ABANDON*

CHANGE PLANS

SUBSEQUENT REPORT OF:

WATER SHUT-OFF

FRACTURE TREATMENT

SHOOTING OR ACIDIZING

(Other)

REPAIRING WELL

ALTERING CASING

ABANDONMENT*

Setting Plug

(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.)*

Set Otis (12 PW 7000) Permo-Trieve plug with (12 EP 7000) expendable in place at 3390'.

Sand Jet 3 holes at 3240' and 3 holes at 3238'. Treated with 1500 gals MA and 2000 gals reg. acid. Swabbed with light show of oil. Treated on 7 Sept. 1966 with 500 gals MA and 3500 gals jel water with 5000# 20-40 sd. Treating 800# psi. 12.1 BPM injection rate. On 8 Sept. 1966 swabbed 65 bbls oil plus load water. On 9 Sept., 1966 swabbed 48 bbls oil plus load water. On 12 Sept., 1966 we perforated from 3339'-3341' with 2 shots per ft. Treated with 4000 gals acid and 5000 gals jel water with 10,000# 20-40 sand. Treating pressure 2900# psi. 14.4 bbls per min. injection rate. Lower section was treated thru tubing and packer at 3318'.

RECEIVED
SEP 23 1966
U.S. GEOLOGICAL SURVEY
DALLAS, TEXAS

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

SIGNED

TITLE

Supt.

DATE

9-22-66

(This space for Federal or State office use)

APPROVED BY

TITLE

DISTRICT ENGINEER

DATE

SEP 23 1966

CONDITIONS OF APPROVAL, IF ANY:

SECTION VII

- 1). Initially 200 barrels per day at approximately 154 psig.
- 2). Closed system.
- 3). Average injection pressure of 154 psig not to exceed a maximum pressure of 657 psig.
- 4). Delaware formation water; see attached water analysis.
- 5). The well is for a disposal purpose by which produced water from the Delaware formation from the Stebbins Deep Federal #1 and the Yates "A" Federal #1 will be disposed into the Delaware formation.

HALLIBURTON DIVISION LABORATORY

HALLIBURTON SERVICES

MIDLAND DIVISION

ARTESIA, NEW MEXICO 88210

LABORATORY WATER ANALYSIS

No. W255-84

To Harvey E. Yates

Date May 29, 1984

P. O. Box 1933

Roswell, NM 88201

This report is the property of Halliburton Company and neither it nor any part thereof nor a copy thereof is to be published or disclosed without first securing the express written approval of laboratory management; it may however, be used in the course of regular business operations by any person or concern and employees thereof receiving such report from Halliburton Company.

Submitted by

Date Rec. May 28, 1984

Well No.

Yates A Fed.

Depth

Formation

Delaware

County

Field

Source

Resistivity

.08 @ 65°

Specific Gravity

1.124 @ 60°

pH

7.0

Calcium (Ca)

6,600

*MPL

Magnesium (Mg)

1,900

Chlorides (Cl)

110,000

Sulfates (SO₄)

Nil

Bicarbonates (HCO₃)

200

Soluble Iron (Fe)

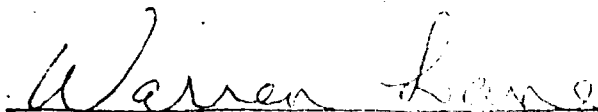
Nil

KCL

Nil

Remarks:

*Milligrams per liter



Respectfully submitted,

Analyst: Warren Lane - Field Engineer

HALLIBURTON COMPANY

cc:

NOTICE

This report is limited to the described sample tested. Any user of this report agrees that Halliburton shall not be liable for any loss or damage, whether it be to act or omission, resulting from such report or its use.

HALLIBURTON DIVISION LABORATORY

HALLIBURTON SERVICES

MIDLAND DIVISION

ARTESIA, NEW MEXICO 88210

LABORATORY WATER ANALYSIS

No. W30-84

To Harvey E. Yates CompanyDate February 22, 1984P. O. Box 1933Roswell, NM 88201

This report is the property of Halliburton Company and neither it nor any part thereof nor a copy thereof is to be published or disclosed without first securing the express written approval of laboratory management; it may however, be used in the course of regular business operations by any person or concern and employees thereof receiving such report from Halliburton Company.

Submitted by Ray Coor

Date Rec. _____

Well No. Stebbin #1 Depth 3400' + Formation DelawareCounty Eddy Field _____ Source _____Resistivity11 @ 68°Specific Gravity 1.092 @ 60°pH 7.0Calcium (Ca) 3.900

*MPL

Magnesium (Mg) 1.800Chlorides (Cl) 76.000Sulfates (SO₄) MediumBicarbonates (HCO₃) 200Soluble Iron (Fe) Nil.....KCL..... 1%

Remarks:

*Milligrams per liter

Warren Lane

Respectfully submitted,

Analyst: Warren Lane, EIT

HALLIBURTON COMPANY

cc:

NOTICE

This report is limited to the described sample tested. Any user of this report agrees that Halliburton shall not be liable for any loss or damage, whether it be to act or omission, resulting from such report or its use.

SECTION VIII

- 1). Lithologic Data: Delaware - Sandstone
- 2). Geologic Name: Permian (Delaware Sandstone)
- 3). Thickness: Injection Interval = 24'
Gross Sandstone Interval = 50'
- 4). Depth: Top of the Delaware = 3246'

SECTION VIII, cont.

(Fresh Water Aquifers and Area Water Wells)

Mr. Frank Bradley, Lea County Basin Supervisor with the New Mexico State Engineers Office in Roswell, was contacted by Harvey E. Yates Company in regards to fresh water wells within a one mile radius of the Stebbins Deep Federal #4. He checked local records to determine if any fresh water wells were recorded in the area. Only one fresh water well was recorded to be within the one mile radius of the proposed injection well. This stock is located SW/4 SW/4 NW/4 of Sec. 20, T-20S, R-29E.

The Water and Soil Conservation Commissions of Roswell and Carlsbad and the BLM in Roswell were also contacted in regards to fresh water wells. Again, the only well on record within the area of review was the stock well located SW/4 SW/4 NW/4 of Sec. 20, T-20S, R-29E.

Mr. Edward Kinney, a consulting geologist in Artesia, New Mexico was contacted on the same day as Mr. Bradley in regards to fresh water aquifers also present within a one mile radius of the Stebbins Deep Federal #4. Mr. Kinney studied the area and concluded that the Ogallala was present starting from about 333' and continuing to 588', depths varying slightly in some places. Mr. Kinney also concluded that the Santa Rosa was present in the area starting as 1200'. The specific area of interest was within a one mile radius of the proposed disposal well. Mr. Kinney also indicated that if the surface and intermediate casing were set through the Ogallala and Santa Rosa and protected by cement to the surface, that the fresh water aquifers would be protected. See Section VI for casing and cementing reports. See Section XI for water sample analyses.

SECTION X

Logs are on microfilm with the Oil Conservation Commission in Artesia, New Mexico and have been sent in.

HALLIBURTON DIVISION LABORATORY

HALLIBURTON SERVICES

MIDLAND DIVISION

HOBBS, NEW MEXICO 88240

LABORATORY WATER ANALYSIS

No. W83-1104Harvey E. YatesDate 9-19-83Box 1933Roswell, New Mexico

This report is the property of Halliburton Company and neither it nor any part thereof nor a copy thereof is to be published or disclosed without first securing the express written approval of laboratory management; it may however, be used in the course of regular business operations by any person or concern and employees thereof receiving such report from Halliburton Company.

Submitted by _____ Date Rec. 9-15-83Well No. W.W. Fresh Water Well Depth _____
SW/4 SW/4 NW/4 of Sec. 20, T-20S, R-29E

Formation _____

Locality _____ Field _____ Source _____

Resistivity _____ 3.40 @ 74°F.Specific Gravity _____ 1.0087.0Calcium (Ca) _____ 1,150

*MPL

Magnesium (Mg) _____ NilChlorides (Cl) _____ 100Sulfates (SO₄) _____ 1,500Carbonates (HCO₃) _____ 85Soluble Iron (Fe) _____ Nil

Remarks:

*Milligrams per liter

Respectfully submitted,

Analyst: McWilliams

HALLIBURTON COMPANY

By W. J. Bunker

CHEMIST

NOTICE

THIS REPORT IS LIMITED TO THE DESCRIBED SAMPLE TESTED. ANY USER OF THIS REPORT AGREES THAT HALLIBURTON SHALL NOT BE LIABLE FOR ANY LOSS OR DAMAGE WHETHER IT BE TO ACT OR OMISSION RESULTING FROM SUCH REPORT OR ITS USE.

Source of data

Field

1. Location: County Eddy Map Oil City, D. 20

SW 1/4 SW 1/4 NW 1/4 sec. 20 T20S R29

2. Owner Snyder Oil Co.

3. Driller L. P. D.

4. Topography

Elev 3246'

5. Type Drilled

19

Use Stock

6. Log

filed

7. Depth: Rept. 8" ft. Meas. 8" ft.

8. Casing

9. Equipment: Pump, type Windmill make Aerometer

ser. no./model 15 size of dischg. 1 1/2 ins.

Power, kind make H.P.

10. Distribution System 20' steel tank 25' NW of well

11. Water Level: 46.74 ft. rept 12-7 1965 above MA

meas which is 2.6 ft. above below MA

12. Discharge Measurement Not measured, pumping

very slowly, caught sample.

G. P. M. Temp. ° F.

13. Remarks Concrete has been poured inside of
base of steel mill tower.

DPN 15-

Well No.

on Photograph

31132 #w

File No. CP-

Location No. 202920.733

3. PRE

SECTION XII

To the best of our knowledge, there are no open faults in the disposal zone or fresh water aquifers in the area.

HEYCO

PETROLEUM PRODUCERS



HARVEY E. YATES COMPANY

P. O. BOX 1933

SUITE 300, SECURITY NATIONAL BANK BUILDING

505/623-6601

ROSWELL, NEW MEXICO 88201

October 19, 1984

Exxon Company, U.S.A.
P. O. Box 1600
Midland, Texas 79701

Dear Sir:

Please find enclosed two copies of waiver pertaining to the Stebbins Deep Federal #4. Your attention is required since Exxon Company U.S.A. is an offset operator in the area.

Sincerely yours,

A handwritten signature in dark ink, appearing to read 'Ray F. Nokes'.

Ray F. Nokes
Reservoir Engineer

RFN:mlb

Enclosures

HEYCO

PETROLEUM PRODUCERS



HARVEY E. YATES COMPANY

P O BOX 1933

SUITE 300, SECURITY NATIONAL BANK BUILDING

505/623-6601

ROSWELL, NEW MEXICO 88201

October 19, 1984

Harvey E. Yates Company is proposing to dispose of water produced from the Delaware formation from the Stebbins Deep Federal #1 and the Yates "A" Federal #1 into the Delaware formation of the Stebbins Deep Federal #4. The Stebbins Deep Federal #4 is located in Unit A, 990' FNL & 330' FEL, Section 30, T-20S, R-29E, Eddy County, New Mexico.

Water produced from the Delaware formation from the Stebbins Deep Federal #1 and the Yates "A" Federal #1 at depths of 3238'-3240', 3339'-3341.5', and 5456'-5602' will be injected into the Delaware formation of the Stebbins Deep Federal #4 at a depth of 3285'-3286', 3299', 3300'-3301', and 3306'-3308' at an estimated rate of 200 barrels water per day at an average pressure of 154 psig not to exceed a maximum pressure of 657 psig.

Please signify your approval by executing your signature in the space provided below and return to my attention at the above address.

Sincerely yours,

Ray F. Nokes
Reservoir Engineer

RFN:mlb

Waiver: Exxon Company U.S.A. hereby approves Harvey E. Yates Company's request of waiver for disposal of produced water from the Delaware formation in the Stebbins Deep Federal #1 and the Yates "A" Federal #1 into the Stebbins Deep Federal #4.

Signed: _____

Company: _____

Date: _____

cc: Oil Conservation Division
Santa Fe, New Mexico

HEYCO

PETROLEUM PRODUCERS



HARVEY E. YATES COMPANY

P. O. BOX 1933

SUITE 300, SECURITY NATIONAL BANK BUILDING

505/623-6601

ROSWELL, NEW MEXICO 88201

October 19, 1984

Artesia Daily Press
503 West Main
Artesia, New Mexico 88210

Dear Sir:

Please find enclosed legal notice which must be printed in its entirety in the Artesia Daily Press. After its publication, please send me an affidavit of publication and a copy of the notice. Also send the bill to our attention.

Sincerely yours,

A handwritten signature in cursive script, appearing to read "Ray F. Nokes".

Ray F. Nokes
Reservoir Engineer

RFN:mlb

Enclosure

Harvey E. Yates Company
P. O. Box 1933
Suite 300, Sunwest Bank Building
Roswell, New Mexico 88201
Phone No. (505) 623-6601
Contact Party: Ray F. Nokes
Reservoir Engineer

Harvey E. Yates Company is seeking administrative approval to dispose of water produced in the Delaware formation from the Stebbins Deep Federal #1 and the Yates "A" Federal #1 into the Delaware formation of the Stebbins Deep Federal #4. The Stebbins Deep Federal #4 is located in Unit A, 990' FNL & 330' FEL, Section 30, T-20S, R-29E, Eddy County, New Mexico.

Water produced from the Delaware formation from the Stebbins Deep Federal #1 and the Yates "A" Federal #1 will be injected into the Delaware formation of the Stebbins Deep Federal #4 at a depth of 3285'-3286', 3299', 3300'-3301', and 3306'-3308' at an estimated rate of 200 barrels water per day at an average pressure of 154 psig not to exceed a maximum pressure of 657 psig.

Interested parties must file objections or requests for a hearing with the New Mexico Oil Conservation Division, P. O. Box 2088, Santa Fe, New Mexico 87501, within 15 days.

Affidavit of Publication

Copy of Publication

No. 10814

STATE OF NEW MEXICO,
County of Eddy:

Gary D. Scott being duly sworn, says: That he is the Business Manager of The Artesia Daily Press, a daily newspaper of general circulation, published in English at Artesia, said county and state, and that the hereto attached Legal Notice

was published in a regular and entire issue of the said Artesia Daily Press, a daily newspaper duly qualified for that purpose within the meaning of Chapter 167 of the 1937 Session Laws of the State of New Mexico for 1 consecutive weeks on the same day as follows:

First Publication October 24, 1984

Second Publication

Third Publication

Fourth Publication

and that payment therefore in the amount of \$
has been made.

Gary D. Scott
Subscribed and sworn to before me this 25th day
of October, 1984

G. D. Scott
Notary Public, Eddy County, New Mexico

My Commission expires September

LEGAL NOTICE

Harvey E. Yates Company
P.O. Box 1933
Suite 300,
Sunwest Bank Building
Roswell, New Mexico
88201

Phone No. (505) 623-6801

Contact Party:

Ray F. Nokes

Reservoir Engineer

Harvey E. Yates Company is seeking administrative approval to dispose of water produced in the Delaware formation from the Stebbins Deep Federal #1 and the Yates "A" Federal #1 into the Delaware formation of the Stebbins Deep Federal #4. The Stebbins Deep Federal #4 is located in Unit A, 99' PNL & 33' FEL, Section 39, T-28N, R-28E, Eddy County, New Mexico.

Water produced from the Delaware formation from the Stebbins Deep Federal #1 and the Yates "A" Federal #1 will be injected into the Delaware formation of the Stebbins Deep Federal #4 at a depth of 3285'-3286', 3286'-3287', and 3306'-3308' at an estimated rate of 200 barrels water per day at an average pressure of 154 psig not to exceed a maximum pressure of 657 psig.

Interested parties must file objections or requests for a hearing with the New Mexico Oil Conservation Division, P.O. Box 2008, Santa Fe, New Mexico 87501, within 15 days.

Published in The Artesia Daily Press, Artesia, N.M., Oct. 24, 1984. Legal No. 10814.

SENDER: Complete items 1, 2, 3 and 4.
Put your address in the "RETURN TO" space on the reverse side. Failure to do this will prevent this card from being returned to you. The return receipt fee will provide you the name of the person delivered to and the date of delivery. For additional fees the following services are available. Consult postmaster for fees and check box(es) for service(s) requested.

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2. ☐ Restricted Delivery.

3. Article Addressed to:
Artisan Daily Press
503 W. Main
Artisan Ln 88210

4. Type of Service: Article Number:
☐ Registered ☐ Insured *P553431304*
☒ Certified ☐ COD
☐ Express Mail

Always obtain signature of addressee or agent and DATE DELIVERED.

5. Signature - Addressee
X

6. Signature - Agent
X

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PS Form 3811, July 1983

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1. ☐ Show to whom, date and address of delivery.
2. ☐ Restricted Delivery.

3. Article Addressed to:
Exxon 10100
P.O. Box 1600
Midland TX 79701

4. Type of Service: Article Number:
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5. Signature - Addressee
X

6. Signature - Agent
X

7. Date of Delivery
10-27-84

8. Addressee's Address (ONLY if requested and fee paid)
1984 *nd*

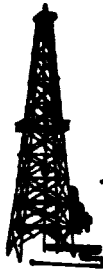
PS Form 3811, July 1983

DOMESTIC RETURN RECEIPT

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HEYCO

PETROLEUM PRODUCERS



HARVEY E. YATES COMPANY

P. O. BOX 1933

SUITE 300, SECURITY NATIONAL BANK BUILDING

505/623-6601

ROSWELL, NEW MEXICO 88201

October 19, 1984

Harvey E. Yates Company is proposing to dispose of water produced from the Delaware formation from the Stebbins Deep Federal #1 and the Yates "A" Federal #1 into the Delaware formation of the Stebbins Deep Federal #4. The Stebbins Deep Federal #4 is located in Unit A, 990' FNL & 330' FEL, Section 30, T-20S, R-29E, Eddy County, New Mexico.

Water produced from the Delaware formation from the Stebbins Deep Federal #1 and the Yates "A" Federal #1 at depths of 3238'-3240', 3339'-3341.5', and 5456'-5602' will be injected into the Delaware formation of the Stebbins Deep Federal #4 at a depth of 3285'-3286', 3299', 3300'-3301', and 3306'-3308' at an estimated rate of 200 barrels water per day at an average pressure of 154 psig not to exceed a maximum pressure of 657 psig.

Please signify your approval by executing your signature in the space provided below and return to my attention at the above address.

Sincerely yours,

Ray F. Nokes
Reservoir Engineer

RFN:mlb

Waiver: ~~EXXON~~ CORPORATION hereby approves Harvey E. Yates Company's request of waiver for disposal of produced water from the Delaware formation in the Stebbins Deep Federal #1 and the Yates "A" Federal #1 into the Stebbins Deep Federal #4.

Signed: J. K. Little
Company: Exxon Corp.
Date: 11-6-84

cc: Oil Conservation Division
Santa Fe, New Mexico

SECTION III-A

Operator	Harvey E. Yates Company
Well Name & Number	Stebbins Deep Federal #1
Lease Number	NM-03677
Legal Location	H, 1980' FNL & 990' FEL Sec 30, T-20S, R-29E Eddy County, New Mexico
Field Pool	Scanlon Delaware
Spud Date	4/17/66
Completion Date	9/15/66
Type Completion	Triple
Type Well	Oil & Gas
TD	13,391
PBTD	11,900
Perforations	Delaware: 3238'-3240' (6 holes) & 3339'-3341.5' (6 holes) Strawn: 10,501'-10,577' (58 holes) Morrow: 11,276'-11,333' & 11,401'-11,411' (134 holes)
Casing Design	13 3/8 to 720' w/350 sxs cmt. 9 5/8 to 3170' w/800 sxs cmt. 7 to 12,195' w/ 1350 sxs cmt.
Tubing	11,265' 2 3/8 N-80 tbg: cut off 60' above perf & seating nipple in the short string.
Top of Cement	11,140' by CBL for Morrow 9829' calculated for Strawn Surface for Delaware
Elevation	3236' GR



STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION

TONY ANAYA
GOVERNOR

February 20, 1985

POST OFFICE BOX 2088
STATE LAND OFFICE BUILDING
SANTA FE, NEW MEXICO 87501
(505) 827-5800

Mr. Robert H. Strand
Atwood, Malone, Mann & Turner
Attorneys at Law
P. O. Drawer 700
Roswell, New Mexico 88201

Re: CASE NO. 8414
ORDER NO. R-7822

Applicant:
Harvey E. Yates Company

Dear Sir:

Enclosed herewith are two copies of the above-referenced Division order recently entered in the subject case.

Sincerely,

Sincerely,
B. L. Smith

R. L. STAMETS
Director

RLS / fd

Copy of order also sent to:

Hobbs OCD	<u>x</u>
Artesia OCD	<u>x</u>
Aztec OCD	

Other _____

HARVEY E. YATES COMPANY

Well History Summary Sheet

Operator Harvey E. Yates Company Well Name & # Stebbins Deep Federal #4 Lease # _____
 District Artesia Made By Machelle Byrum Date 10/19/84
 Location 990' FNL & 330' FEL, Sec. 30, T-20S, R-29E
 Spud Date 7/18/67 Compl. Date 8/7/84 TD 3364' PBTD 3341'
 Type Well: Oil ☒ Gas _____ Other _____ Field _____
 I P _____ Zone Delaware
 Perfs.: 3285'-86'; 3299'; 3300'-01'; 3306'-08. Total Holes 9
 Stimulation _____
 Cumul. Oil 0 MCF _____ Water _____
 Recent Test _____ Lift Equipment _____
 Misc. Elevation: 3250' GR

WELL HISTORY

Surface: 8 5/8 "
24 # Gr. _____
 @ 670' Cmt. w/ _____
100 Sx. TOC _____
 Hole Size 11 "
 Max Mud Wt. _____ #/G
 Intermediate: _____ #
 Gr _____ @ _____
 Cmt w/ _____ Sx. _____
 TOC @ _____, Hole _____
 Size _____", Max Mud _____
 Wt. _____ #/G

Note: Circulated 10 sxs cement to surface
 TOC @ surface

2-3/8" internally plastic
 coated tbg set @ 3225'

on/off w/1.81" profile

4-1/2" Nickle Plated Baker
 Lok-Set Pkr @ 3225'

Perf from 3285'-86'

Perf @ 3299'

Perf from 3300'-01'

Perf from 3206'-08'