HEYCO **HARVEY E. YATES COMPANY**

PETROLEUM PRODUCERS

P. O. BOX 1933 SUITE 300, SECURITY NATIONAL BANK BUILDING 505/623-6601

ROSWELL, NEW MEXICO 88201

July 18, 1983

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

Attention: Mr. Joe Ramey
Division Director & State Petroleum Engineer

Re: Request for Administrative Approval to Convert the McDonald Unit #3-Y to a Salt Water Disposal Well

Dear Mr. Ramey:

Please find attached two copies of an application for a request of an administrative approval to convert the McDonald Unit #3-Y to a Salt Water Disposal Well located SW 4/SW 4 of Section 34, T-13S, R-36E, Lea County, New Mexico.

If the commission considers it necessary for the request be set for hearing, please schedule the presentation for the earliest possible date on the docket. Please contact my office of your decision at your earliest convenience. By copy of this applicaton, the surface owner was notified by certified mail.

Sincerely yours,

Ray F. Nokes
Reservoir Engineer

RFN:mlb

Attachments

cc: Oil Conservation Division
District I
Hobbs, NM

ENERGY AND MINERALS DEPARTMENT

POST OFFICE BOX 2088
STATE LAND OFFICE BUILDING
SANTA FE, NEW MEXICO 87501

Revised 7-1-81

RECEIVED
JUL 20 1983
OIL CONSERVATION DIVISION
SANTA FE

APPLICATION FOR AUTHORIZATION TO INJECT

I. Purpose: ☐ Secondary Recovery ☐ Pressure Maintenance ☒ Disposal ☐ Storage
Application qualifies for administrative approval? ☒ yes ☐ no

II. Operator: Harvey E. Yates Company

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

Contact party: Ray F. Nokes Phone: 1-505-623-6601

III. Well data: Complete the data required on the reverse side of this form for each well proposed for injection. Additional sheets may be attached if necessary.

IV. Is this an expansion of an existing project? ☐ yes ☒ no
If yes, give the Division order number authorizing the project _____.

V. Attach a map that identifies all wells and leases within two miles of any proposed injection well with a one-half mile radius circle drawn around each proposed injection well. This circle identifies the well's area of review.

* VI. Attach a tabulation of data on all wells of public record within the area of review which penetrate the proposed injection zone. Such data shall include a description of each well's type, construction, date drilled, location, depth, record of completion, and a schematic of any plugged well illustrating all plugging detail.

VII. Attach data on the proposed operation, including:

1. Proposed average and maximum daily rate and volume of fluids to be injected;
2. Whether the system is open or closed;
3. Proposed average and maximum injection pressure;
4. Sources and an appropriate analysis of injection fluid and compatibility with the receiving formation if other than reinjected produced water; and
5. If injection is for disposal purposes into a zone not productive of oil or gas at or within one mile of the proposed well, attach a chemical analysis of the disposal zone formation water (may be measured or inferred from existing literature, studies, nearby wells, etc.).

*VIII. Attach appropriate geological data on the injection zone including appropriate lithologic detail, geological name, thickness, and depth. Give the geologic name, and depth to bottom of all underground sources of drinking water (aquifers containing waters with total dissolved solids concentrations of 10,000 mg/l or less) overlying the proposed injection zone as well as any such source known to be immediately underlying the injection interval.

IX. Describe the proposed stimulation program, if any.

* X. Attach appropriate logging and test data on the well. (If well logs have been filed with the Division they need not be resubmitted.)

* XI. Attach a chemical analysis of fresh water from two or more fresh water wells (if available and producing) within one mile of any injection or disposal well showing location of wells and dates samples were taken.

XII. Applicants for disposal wells must make an affirmative statement that they have examined available geologic and engineering data and find no evidence of open faults or any other hydrologic connection between the disposal zone and any underground source of drinking water.

XIII. Applicants must complete the "Proof of Notice" section on the reverse side of this form.

XIV. Certification

I hereby certify that the information submitted with this application is true and correct to the best of my knowledge and belief.

Name: Ray F. Nokes Title Reservoir Engineer

Signature: Ray F. Nokes Date: July 18, 1983

* If the information required under Sections VI, VIII, X, and XI above has been previously submitted, it need not be duplicated and resubmitted. Please show the date and circumstance of the earlier submittal.

DISTRIBUTION: Original and one copy to Santa Fe with one copy to the appropriate Division

III. WELL DATA

A. The following well data must be submitted for each injection well covered by this application. The data must be both in tabular and schematic form and shall include:

(1) Lease name; Well No.; location by Section, Township, and Range; and footage location within the section.

(2) Each casing string used with its size, setting depth, sacks of cement used, hole size, top of cement, and how such top was determined.

(3) A description of the tubing to be used including its size, lining material, and setting depth.

(4) The name, model, and setting depth of the packer used or a description of any other seal system or assembly used.

Division District offices have supplies of Well Data Sheets which may be used or which may be used as models for this purpose. Applicants for several identical wells may submit a "typical data sheet" rather than submitting the data for each well.

B. The following must be submitted for each injection well covered by this application. All items must be addressed for the initial well. Responses for additional wells need be shown only when different. Information shown on schematics need not be repeated.

(1) The name of the injection formation and, if applicable, the field or pool name.

(2) The injection interval and whether it is perforated or open-hole.

(3) State if the well was drilled for injection or, if not, the original purpose of the well.

(4) Give the depths of any other perforated intervals and detail on the sacks of cement or bridge plugs used to seal off such perforations.

(5) Give the depth to and name of the next higher and next lower oil or gas zone in the area of the well, if any.

XIV. PROOF OF NOTICE

All applicants must furnish proof that a copy of the application has been furnished, by certified or registered mail, to the owner of the surface of the land on which the well is to be located and to each leasehold operator within one-half mile of the well location.

Where an application is subject to administrative approval, a proof of publication must be submitted. Such proof shall consist of a copy of the legal advertisement which was published in the county in which the well is located. The contents of such advertisement must include:

(1) The name, address, phone number, and contact party for the applicant;

(2) the intended purpose of the injection well; with the exact location of single wells or the section, township, and range location of multiple wells;

(3) the formation name and depth with expected maximum injection rates and pressures; and

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

NO ACTION WILL BE TAKEN ON THE APPLICATION UNTIL PROPER PROOF OF NOTICE HAS BEEN SUBMITTED.

NOTICE: Surface owners or offset operators must file any objections or requests for hearing of administrative applications within 15 days from the date this application was mailed to them.

Addendum to C-108

III. B. 1) Cisco
2) Proposed Perfs: 10,848'-10,864'
3) The well was originally drilled for a devonian oil well.
4) Currently a CIBP @ 12,970' w/35' cement on top and squeezed 50 sxs cement @ 12,885' through 4 holes. Also present perfs @ 12,844'-12,854'. If well is non-commercial, a CIBP will be set to shut off all lower intervals and covered with cement.
5) The Griffin #1 located in Section 4, T-14S, R-36E is producing from the Bough "A" (10,203'-10,210'). The E. L. Richardson #1 located in Section 33, T-13S, R-36E, is producing from the Bough "A" (10,300'-10,309'). The McDonald Unit #2 located in Section 3, T-14S, R-36E is producing from the devonian (14,556'-14,568').

VII. 1) Average 500 BPD; Max 1500 BPD.
2) Closed System.
3) Average Injection Pressure: 1500 psig, Max Injection pressure 2172 psig.
4) See attached water analysis of formation water from the McDonald Unit #2.
5) See attached copy of report from DST #3 for test interval from 10,810' to 10,950' reporting formation water to be sulphur water.

VIII. 1) Lithologic: Dolomite & Shale
2) Geologic Name: Cisco
3) Thickness: 416'
4) Depth: 10,556' to 10,972'

IX. Perforate w/4 JSPF from 10,848'-10,864' and acid to open lost circulation zone during drilling.

X. Logs have been forwarded to the New Mexico Oil Conservation Division District I office in Hobbs, New Mexico. See attached DST report from Lynes, Inc. for DST #3.

XI. See attached two analysis of fresh water from offsetting fresh water wells in the area (the S.E. Foster #1 in Section 4 of T-14S, R-36E and the McClish well in Section 34, of T-13S, R-36E of Lea County, New Mexico.) Complete list of water wells in area are attached.

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

XIII. See attached proof of notice printed in the Hobbs Daily News Sun Newspaper.

HARVEY E. YATES COMPANY

Well History Summary Sheet

Operator Harvey E. Yates Co. Well Name & # McDonald Unit #3-Y Lease # Fee

District Roswell Made By Ray F. Nokes Date 7-18-83

Location M, 660' FSL & 660' FWL, Sec. 34, T-13S, R-36E, Lea County, New Mexico

Spud Date 2-14-83 Compl. Date Testing TD 13,380' PBTD 12,935' to date

Type Well: Oil ____ Gas ____ Other Testing Field Wildcat

I P Testing Zone ____

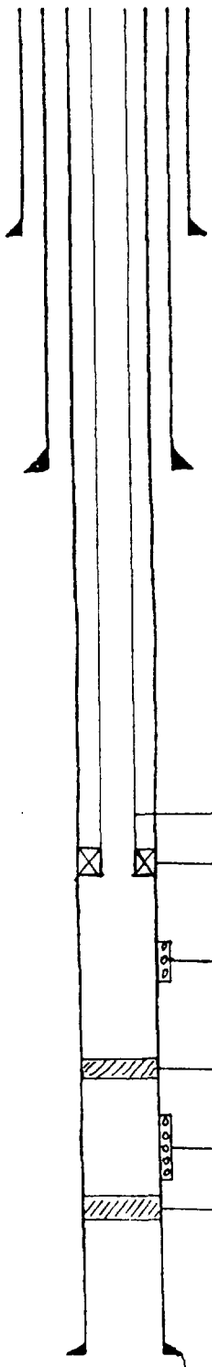
Perfs.: ____ Total Holes ____

Stimulation ____

Cumul. Oil ____ MCF ____ Water ____

Recent Test ____ Lift Equipment ____

Misc. Elevation 3947.8' GL



Surface: 13-3/8" 48 # Gr. @ 373 Cmt. w/ 400 Sx. TOC surface Hole Size 17-1/2" Max Mud Wt ____ #/G

Intermediate: 8-5/8", 24 & 32 # Gr ____ @ 4600 Cmt w/ 1600 Sx. TOC @ surface, Hole Size 11", Max Mud Wt. ____ #/G

2-3/8" 4.7# N-80 Internally Plastic Coated

5-1/2" Nickle Plated Baker Lok-Set @ 10,750'

Proposed perfs: 10,848'-10,864'; lost circulation zone during drilling tested sulphur H_2O.

CIBP estimated @ 12,800' w/ 35' cmt on top.

Perfs: Current zone under testing @ 12,844'-12,854'

CIBP @ 12,970' w/35' cmt on top.

Production: 5-1/2", 17 & 20 #, N-80, C-75 Gr. @ 13,380', Cmt. w/ 475 Sx. TOC @ 10,240 by CBL, Hole Size ____ Mx Mud Wt. ____ #/G

TD 13,380'

WELL HISTORY

Perf w/4 holes @ 12,300' & re-perf w/8 holes from 13,004'-13,006'. Unable to squeeze through perfs.

Set CIBP @ 12,970' & dump 35' cmt on top. New PBTD @ 12,935'.

Perf 4 holes @ 12,885' & squeeze 50 sxs cmt into perfs.

Perf @ 12,844'-12,854' (2 jspf)

Acid w/500 gal 7-1/2% MSA

Presently testing well.

Tubing ____", ____ #, ____ Gr. @ ____

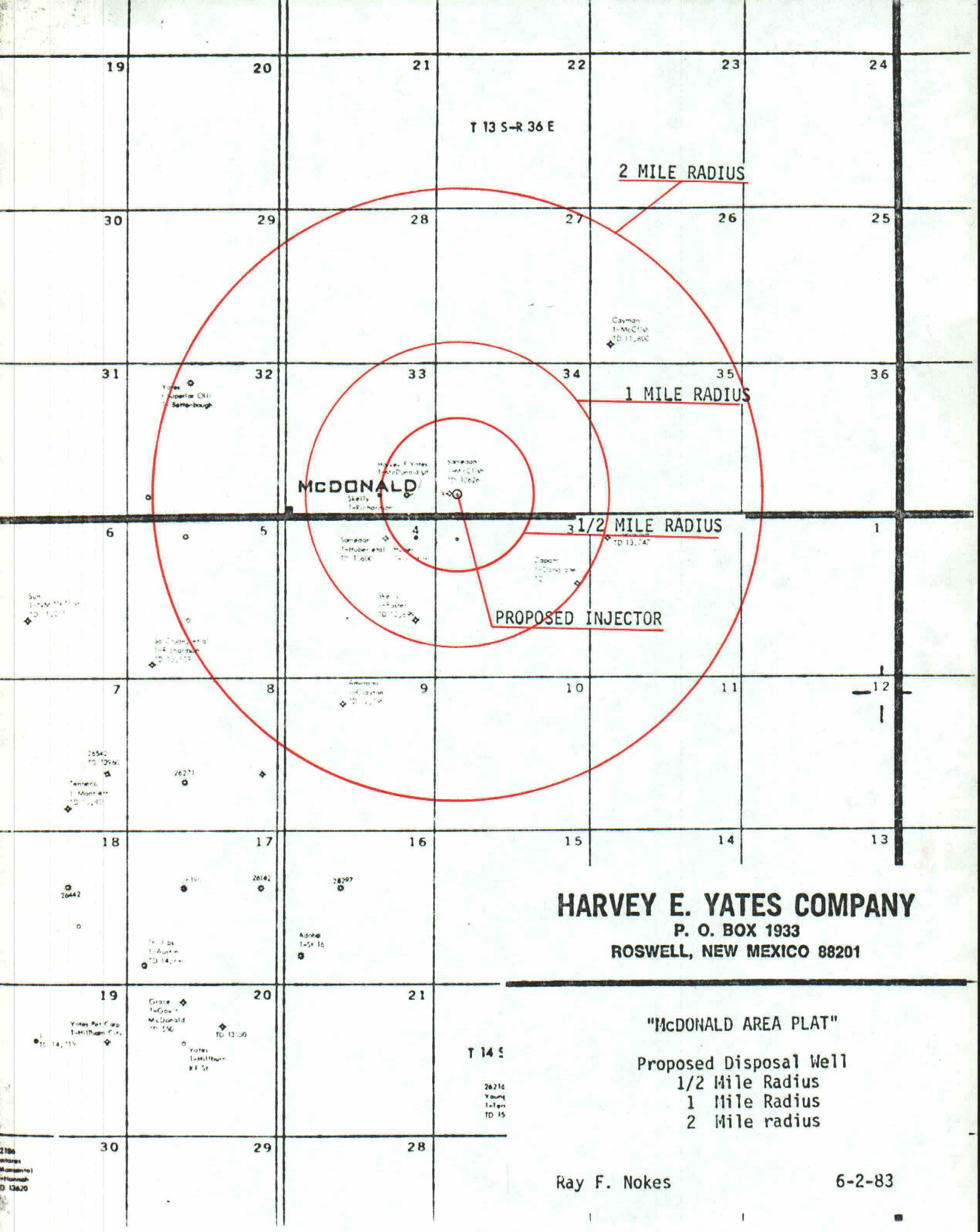
Tubing ____", ____ #, ____ Gr. @ ____

Packer @ ____

SECTION V

(Maps)

Prepared by:
Ray F. Nokes
Reservoir Engineer
Harvey E. Yates Company
Roswell, NM 88201



HARVEY E. YATES COMPANY

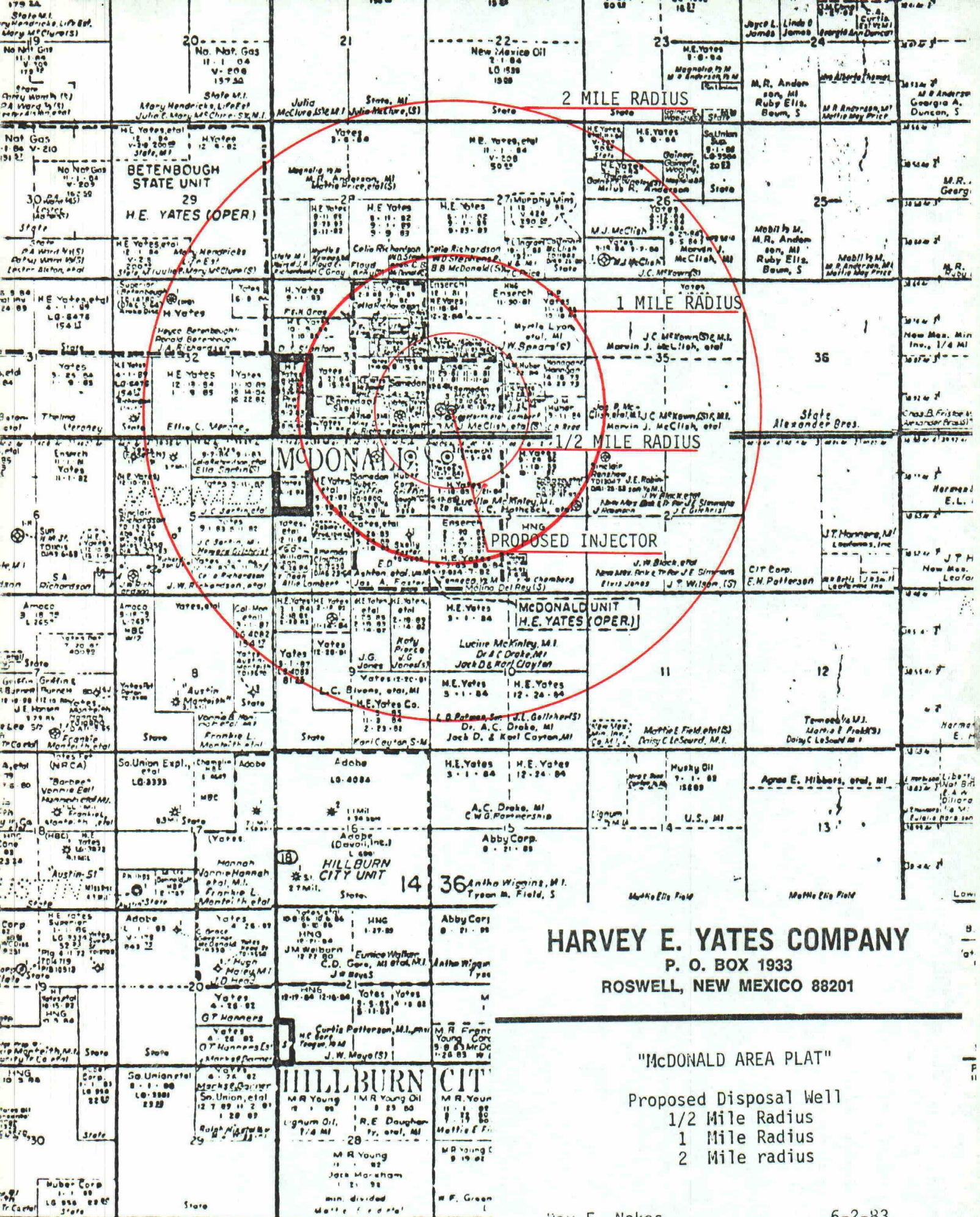
P. O. BOX 1933
ROSWELL, NEW MEXICO 88201

"McDONALD AREA PLAT"

Proposed Disposal Well
1/2 Mile Radius
1 Mile Radius
2 Mile radius

Ray F. Nokes

6-2-83



HARVEY E. YATES COMPANY

P. O. BOX 1933

ROSWELL, NEW MEXICO 88201

"McDONALD AREA PLAT"

Proposed Disposal Well
1/2 Mile Radius
1 Mile Radius
2 Mile radius

Ray F. Nokes

6-2-83

SECTION VI

Well Histories For Area Of Review

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

HARVEY E. YATES COMPANY

Well History Summary Sheet

Operator Harvey E. Yates Co. Well Name & # McDonald Unit #3-Y Lease # Fee

District Roswell Made By Ray F. Nokes Date 7-18-83

Location M, 660' FSL & 660' FWL, Sec. 34, T-13S, R-36E, Lea County, New Mexico

Spud Date 2-14-83 Compl. Date Testing TD 13,380' PBTD 12,935' to date

Type Well: Oil ____ Gas ____ Other Testing Field Wildcat

I P Testing Zone ____

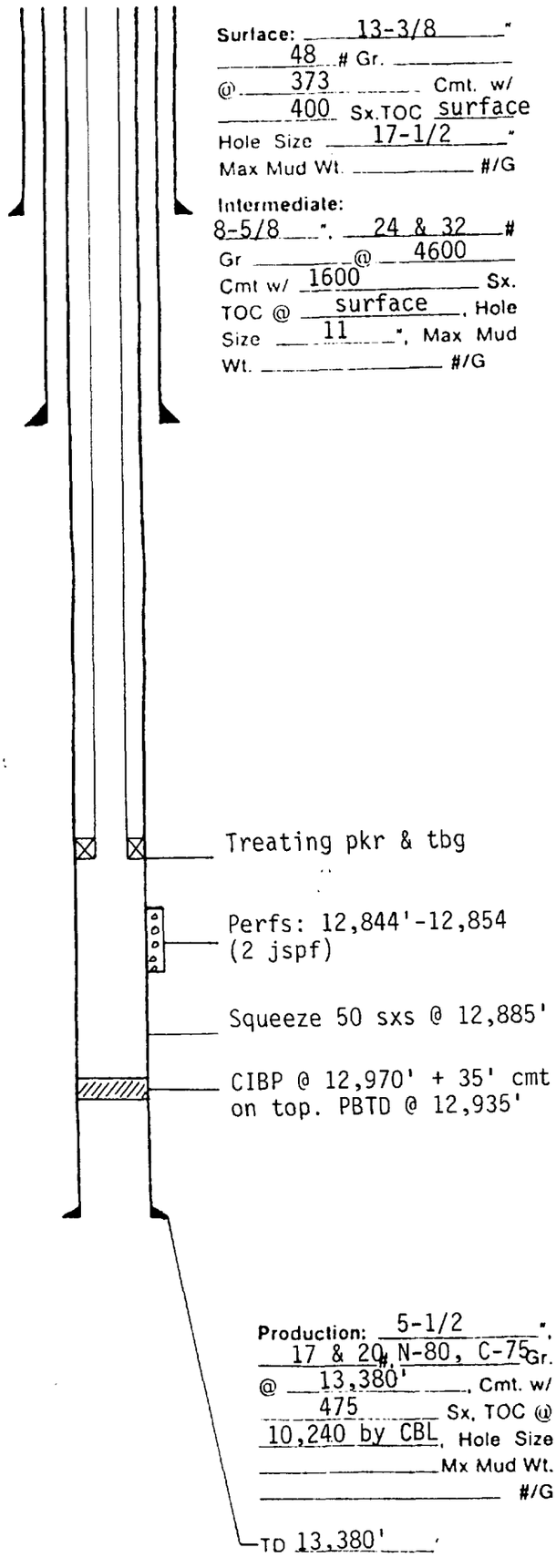
Perfs.: ____ Total Holes ____

Stimulation ____

Cumul. Oil ____ MCF ____ ____ Water ____

Recent Test ____ Lift Equipment ____

Misc. Elevation 3947.8' GL



Surface: 13-3/8" 48 # Gr. ____ @ 373 Cmt. w/ 400 Sx. TOC surface Hole Size 17-1/2" Max Mud Wt. ____ #/G

Intermediate: 8-5/8". 24 & 32 # Gr ____ @ 4600 Cmt w/ 1600 Sx. TOC @ surface, Hole Size 11", Max Mud Wt. ____ #/G

Production: 5-1/2", 17 & 20 #, N-80, C-75 Gr. @ 13,380', Cmt. w/ 475 Sx, TOC @ 10,240 by CBL, Hole Size ____ Mx Mud Wt. ____ #/G

Tubing ____", ____#, ____ Gr. @ ____

Tubing ____", ____#, ____ Gr. @ ____

Packer @ ____

WELL HISTORY

Perf w/4 holes @ 12,300' & re-perf w/8 holes from 13,004'-13,006'. Unable to squeeze through perfs.

Set CIBP @ 12,970' & dump 35' cmt on top. New PBTD @ 12,935'.

Perf 4 holes @ 12,885' & squeeze 50 sxs cmt into perfs.

Perf @ 12,844'-12,854' (2 jspf)

Acid w/500 gal 7-1/2% MSA

Presently testing well.

HARVEY E. YATES COMPANY

Well History Summary Sheet

Operator Cayman Corporation Well Name & # McClish #1 Lease # Fee

District Roswell Made By Ray F. Nokes Date 7/18/83

Location M, 660' FSL & 660' FWL, Sec. 26, T-13S, R-36E

Spud Date 7/19/69 Compl. Date P&A TD 11,800' PBTD P&A

Type Well: Oil ____ Gas ____ Other P&A Field ____

I P P&A Zone ____

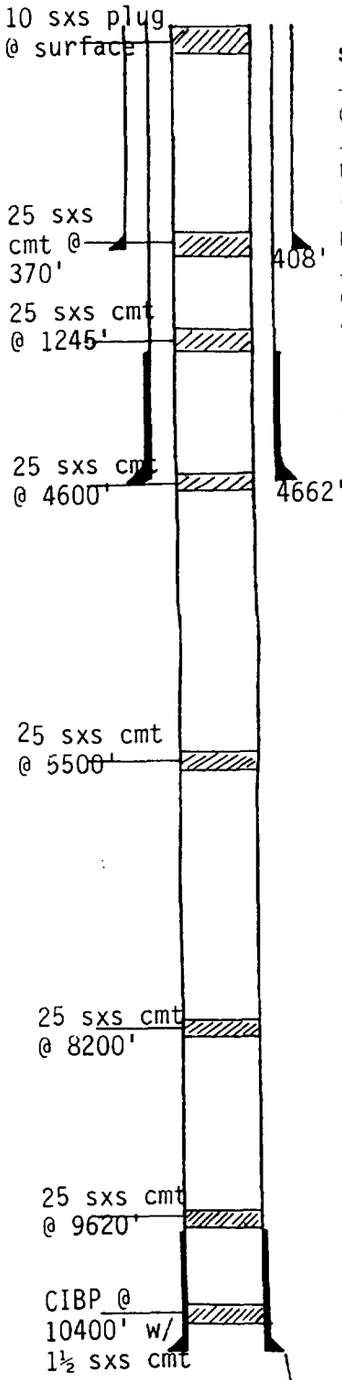
Perfs.: ____ Total Holes ____

Stimulation ____

Cumul. Oil ____ MCF ____ Water ____

Recent Test ____ Lift Equipment ____

Misc. Elevation 3937' GL



Surface: 13-3/8", 48 # Gr. NR @ 408' Cmt. w/ 410 Sx. TOC surface Hole Size 17-1/2" Max Mud Wt. NR #/G

Intermediate: 8-5/8", 24 & 32 # Gr NR @ 4662 Cmt w/ 350 Sx. TOC @ approx. 1350' Hole Size 11", Max Mud Wt. NR #/G

Production: 4-1/2", 11.6 #, ____ Gr. @ 11,007', Cmt. w/ 240 Sx. TOC @ 9800 approx.; Hole Size 7-7/8 Mx Mud Wt. ____ #/G

TD 11,800'

WELL HISTORY

Tubing ____", ____ #, ____ Gr. @ ____

Tubing ____", ____ #, ____ Gr. @ ____

Packer @ ____

HARVEY E. YATES COMPANY

Well History Summary Sheet

Operator Harvey E. Yates Co. Well Name & # McDonald #1 Lease # Fee

District Roswell Made By Ray F. Nokes Date 7-28-83

Location P, 660' FSL & 990' FEL, Sec. 33, T-13S, R-36E, Lea County, NM

Spud Date 6-13-81 Compl. Date 3-23-82 TD 14,593' PBTD 12,965'

Type Well: Oil ____ Gas X Other ____ Field McDonald Atoka

I P 3,104 MMCF , BO -0-, BW -0- Zone Atoka

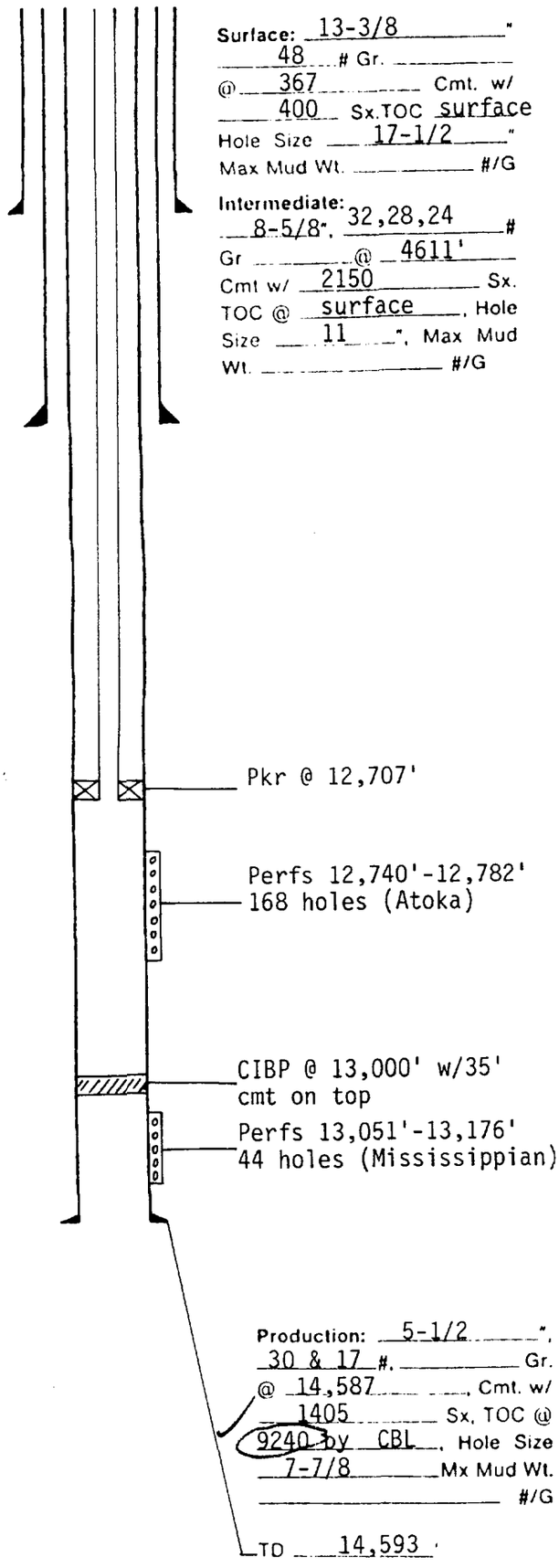
Perfs.: 12,740'-12,782' (4 jspf) Total Holes 168 holes

Stimulation 20,500 gal 7-1/2% MFM

Cumul. Oil ____ MCF ____ Water ____

Recent Test ____ Lift Equipment ____

Misc. Elevation 3966.4' KB 3951' GR



WELL HISTORY

Tubing ____", ____#, ____ Gr. @ ____

Tubing ____", ____#, ____ Gr. @ ____

Packer @ ____

HARVEY E. YATES COMPANY

Well History Summary Sheet

Operator Getty Oil Company Well Name & # E. L. Richardson #1 Lease # Fee

District Roswell Made By Ray F. Nokes Date 7/18/83

Location 0,1980' FEL & 660' FSL, Sec. 33, T-13S, R-36E

Spud Date 4/14/72 Compl. Date 5/25/72 TD 11,385' PBTD 10,416'

Type Well: Oil X Gas ____ Other ____ Field McDonald Penn

I P 26 BO, 89 MCF, 1 BW Zone Bough "A"

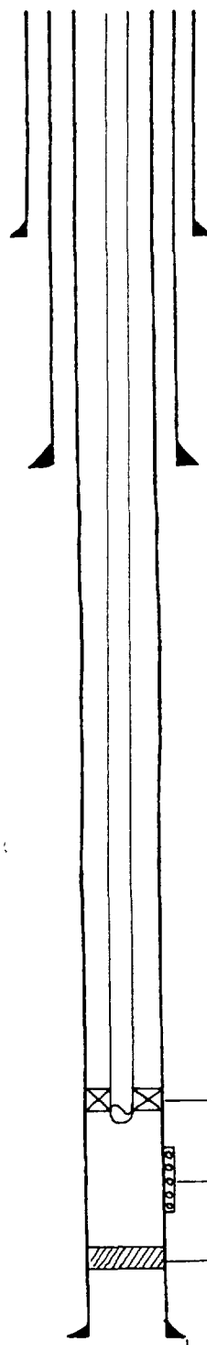
Perfs.: 10,300' to 10,309'; 2-3/8" holes per foot (9') Total Holes 18 holes

Stimulation 750 gals 15% MSR, 500 gals 15% NE acid & 5500 gals 15% RA-1; 2500 gals gelled wtr 5 BS

Cumul. Oil ____ MCF ____ Water ____

Recent Test ____ Lift Equipment ____

Misc. Elevation 3965' DF



Surface: 13-3/8", 54.5 & 61 #, Gr. NR, @ 422', Cmt. w/ 450 Sx. TOC surface, Hole Size 17-1/2", Max Mud Wt. N/R #/G

Intermediate: 8-5/8", 32 #, Gr NR @ 4580, Cmt w/ 1825 Sx., TOC @ N/R, Hole Size 11", Max Mud Wt. N/R #/G

Production: 5-1/2", 20 & 17 #, NR Gr., @ 10,505', Cmt. w/ 400 Sx, TOC @ 8590', Hole Size N/R, Mx Mud Wt. N/R #/G

Tubing 2-3/8", N/R #, N/R Gr. @ 10,219'

Tubing ____", ____ #, ____ Gr. @ ____

Packer @ 10,219'

WELL HISTORY

HARVEY E. YATES COMPANY

Well History Summary Sheet

Operator Harvey E. Yates Co. Well Name & # McDonald Unit #2 Lease # Fee

District Roswell Made By Ray F. Nokes Date 7-13-83

Location D, 660' FNL & 660' FWL, Sec. 3, T-14S, R-36E, Lea County, NM

Spud Date 3-28-82 Compl. Date 7-8-82 TD 14,592' PBTD 14,584'

Type Well: Oil X Gas ____ Other ____ Field McDonald Devonian

I P 312 BO, 149.8 MCF 0 BW Zone Devonian

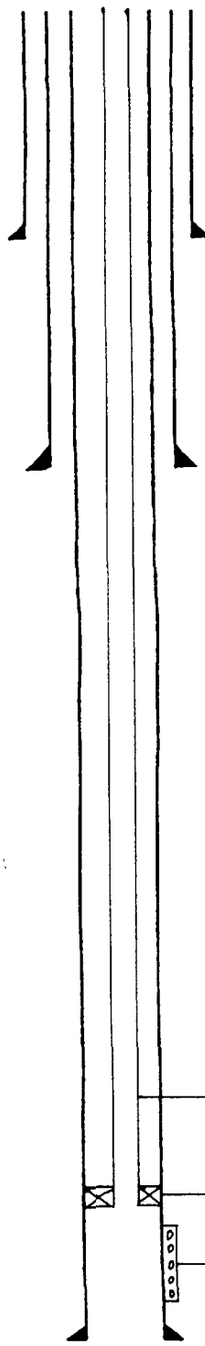
Perfs.: 14,556' to 14,564', 14,564' to 14,568' Total Holes 16 holes; 4 holes

Stimulation None

Cumul. Oil ____ MCF ____ Water ____

Recent Test ____ Lift Equipment ____

Misc. Elevation: 3945.6 GL (15.4' KB)



Surface: 13-3/8" 48 # Gr. ____ @ 377 Cmt. w/ 400 Sx.TOC ____ Hole Size 17½" Max Mud Wt. ____ #/G

Intermediate: 8-5/8", 24,28, 32 # Gr NR @ 4630' Cmt w/ 1600 Sx. TOC @ ____, Hole Size 11", Max Mud Wt. ____ #/G

2-3/8" 4.7# N-80 Tbg

Pkr@ 14,504'

Perfs 14,556'-14,564' & 14,564'-14,568'

Production: 5-1/2", 17 #, NR Gr. @ 14,585, Cmt. w/ 1659 Sx, TOC @ 10,400, Hole Size 7-7/8 Mx Mud Wt. NR #/G

TD 14,592'

Tubing 2-3/8", ____ #, ____ Gr, @ 14,504'

Tubing ____", ____ #, ____ Gr, @ ____

Packer @ 14,504'

WELL HISTORY

ell History Summary Sheet

Operator J. M. Huber Corp. Well Name & # Griffin #1 Lease # Fee

District Roswell Made By Ray F. Nokes Date 4/18/83

Location A, 660' FNL & 660' FEL, Sec. 4, T-14S, R-36E, Lea County, New Mexico

Spud Date 5/26/71 Compl. Date 7/23/71 TD 11,475' PBTD 10,425'

Type Well: Oil X Gas ____ Other ____ Field Undesignated

I P 179 BO, 290 MCF, 0 BW Zone Bough "A"

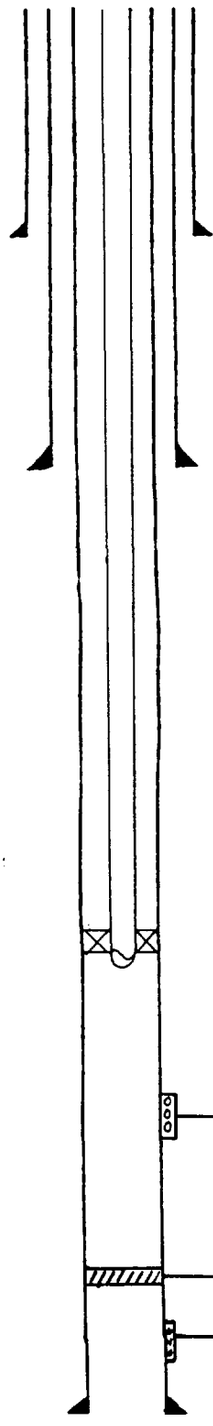
Perfs.: 10,203'-10210' Total Holes 14 holes

Stimulation 1000 gals 15% Spearhead acid + 3000 gal 20% HCL

Cumul. Oil ____ MCF ____ Water ____

Recent Test ____ Lift Equipment ____

Misc. Elevation: 3947.6' GR



Surface: 13-3/8", 48 & 54.5 # Gr. NA @ 423 Cmt. w/ 350 Sx. TOC surface
Hole Size 17-1/2"
Max Mud Wt. NA #/G

Intermediate: 9-5/8", 36 & 40 # Gr NA @ 4575
Cmt w/ 450 Sx. TOC @ surface, Hole Size 12-3/4", Max Mud Wt. NA #/G

Production: 5-1/2", 15.5 & 17 # NA Gr. @ 10700, Cmt. w/ 340 Sx, TOC @ NR, Hole Size 8-3/4" Mx Mud Wt. ____ #/G

TD 11,475'

WELL HISTORY

Testing Record: 1) 10,502'-10,511' - 7 BOPH w/60% sulfur H2O. CIBP @ 10,435' w/10' cmt
2) 10,293'-10,305' - No show after acid.
3) 10,266'-10,275' - No show after acid.

2/6/81 Csg leak @ 9701'. Set RBP @ 9849'; to protect perfs. Squeezed csg leak w/2760 sxs cement. Circ 482 sxs cmt to surface. WOC. RU & test to 1500 psig. Held ok.

3/24/81 Ran production equipment.

4/1/83 Test 43 BO & 208 BW
10-1/2 SPM w/120" stroke.

Tubing NA", NA #, Gr. @ NA
Tubing ____", ____ #, Gr. @ ____
Packer @ ____

SECTION VI
(Area Well Histories)

	Proposed Disposal Well		
Well Name	McDonald Unit	McDonald Unit	McDonald Unit
Well Number	#3-Y	#1	#2
Legal Location	M, 660' FSL & 660' FWL Section 34, T-14S, R-36E Lea County, New Mexico	P, 660' FSL & 990' FEL Section 33, T-13S, R-36E Lea County, New Mexico	D, 660' FNL & 660' FWL Section 3, T-14S, R-36E Lea County, New Mexico
Field Pool	Testing	McDonald Atoka	McDonald Devonian
Spud Date	2-14-83	6-13-81	3-28-82
Completion or Recompletion Date	N/A	3-23-82	7-8-82
Type Completion	N/A	Atoka Gas	Devonian Oil
TD	13,380'	14,593'	14,592'
PBTD	12,935'	12,965'	14,584'
Completion Interval	N/A	12,740'-12,782'	14,556'-14,568'
Casing Design	13-3/8" to 373' w/400 sxs 8-5/8" to 4600' w/1600 sxs 5-1/2" to 13,380' w/475 sxs	13-3/8" to 367' w/400 sxs 8-5/8" to 4611' w/2150 sxs 5-1/2" to 14,587' w/1405 sxs	13-3/8" to 377' w/400 sxs 8-5/8" to 4630' w/1600 sxs 5-1/2" to 14,585' w/1659 sxs
Tubing	N/A	2-3/8" to 12,707'	2-3/8" to 14,504'
Top of Cement	10,240' by CBL	9240' by CBL	10,400' by CBL

Area Well Histories Continued

Well Name	McClish	Griffin	E. L. Richardson
Well Number	#1	#1	#1
Legal Location	M, 660' FSL & 660' FWL Section 26, T-13S, R-36E Lea County, New Mexico	A, 660' FNL & 660' FEL Section 4, T-14S, R-36E Lea County, New Mexico	O, 1980' FEL & 660' FSL Section 33, T-13S, R-36E Lea County, New Mexico
Field Pool	P & A	Undesignated (Bough A)	McDonald Penn
Spud Date	7-19-69	5-26-71	4-14-72
Completion or Recompletion Date	P & A 9-26-69	7-23-71	5-25-72
Type Completion	P & A	Bough "A" Oil	Bough "A" Oil
TD	11,800'	11,475'	11,385'
PBTD	Surface	10,425'	10,416'
Completion Interval	Tested 10,600'-10,763' P & A	10,203'-10,210'	10,300'-10,309'
Casing Design	13-3/8" to 408' w/410 sxs 8-5/8" from 1308' to 4662' w/350 sxs 4-1/2" from 9799' to 11,007' w/240 sxs	13-3/8" to 423' w/350 sxs 8-5/8" to 4575' w/450 sxs 5-1/2" to 10,700' w/340 sxs	13-3/8" to 422' w/450 sxs 8-5/8" to 4580' w/1825 sxs 5-1/2" to 10,505' w/400 sxs
Tubing	N/A	2-3/8" to 10,177'	2-3/8" to 10,219'
Top of Cement	9800' approx.	Above 10,200' but Not Recorded	8590' by Operator Report

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NEW MEXICO OIL CONSERVATION COMMISSION

Form C-103
Supersedes Old C-102 and C-103
Effective 1-1-65

5a. Indicate Type of Lease
State ☐ Fee ☒

5. State Oil & Gas Lease No.

SUNDRY NOTICES AND REPORTS ON WELLS

(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT —" (FORM C-101) FOR SUCH PROPOSALS.)

1. OIL WELL ☒ GAS WELL ☐ OTHER-

RECEIVED
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OIL CONSERVATION DIVISION
SANTA FE

7. Unit Agreement Name

2. Name of Operator
Cayman Corporation

8. Farm or Lease Name
McClish

3. Address of Operator
512 Midland Savings Bldg., Midland, Texas 79701

9. Well No.
1

4. Location of Well
UNIT LETTER M, 660 FEET FROM THE South LINE AND 660 FEET FROM THE West LINE, SECTION 26 TOWNSHIP 13-S RANGE 36-E NMPM.

10. Field and Pool, or Wildcat
Wildcat

15. Elevation (Show whether DF, RT, GR, etc.)
3937 GL

12. County
Lea

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

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
PERFORM REMEDIAL WORK ☐	PLUG AND ABANDON ☐	REMEDIAL WORK ☐	ALTERING CASING ☐
TEMPORARILY ABANDON ☐		COMMENCE DRILLING OPNS. ☐	PLUG AND ABANDONMENT ☒
PULL OR ALTER CASING ☐	CHANGE PLANS ☐	CASING TEST AND CEMENT JOB ☐	
OTHER ☐		OTHER ☐	

12. Describe Proposed or Completed Operations (*Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work*) SEE RULE 1103.

9-22-69 Set cast iron bridge plug at 10,400' with 1-1/2 sacks cement on it.

9-23-69 Shot into and recovered 9799' of 4-1/2" 11.60# casing. Placed 25-sack cement plugs at:
9620-9720'
8200-8300'
5500-5600'
4600-4700'

9-26-69 Shot into and recovered 1308' of 8-5/8" 24# casing. Placed cement plugs at:
1245-1302' 25 sx
370- 420' 25 sx
Surface 10 sx

Installed marker.

8.7-lb. per gal. mud between cement plugs.

18. I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNED C. Goodrich TITLE Engineer DATE 10-21-69

APPROVED BY John W. Runyan TITLE SUPERVISOR DISTRICT DATE JUN 5 1970

CONDITIONS OF APPROVAL, IF ANY:

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Form C-105
Revised 1-1-65

NEW MEXICO OIL CONSERVATION COMMISSION
WELL COMPLETION OR RECOMPLETION REPORT AND LOG

5a. Indicate Type of Lease: State ☐ Fee ☒

5. State Oil & Gas Lease No.

RECEIVED
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SANTA FE

1a. TYPE OF WELL: OIL WELL ☐ GAS WELL ☐ DRY ☒ OTHER

b. TYPE OF COMPLETION: NEW WELL ☐ WORK OVER ☐ DEEPEN ☐ PLUG BACK ☐ DIFF. RESVR. ☐

7. Unit Agreement Name

8. Farm or Lease Name: McClish

2. Name of Operator: Cayman Corporation

9. Well No.: 1

3. Address of Operator: 512 Midland Savings Bldg., Midland, Texas 79701

10. Field and Pool, or Wildcat: Wildcat

4. Location of Well: UNIT LETTER M LOCATED 660 FEET FROM THE South LINE AND 660 FEET FROM THE West LINE OF SEC. 26 TWP. 13-S RGE. 36-E NMPM

12. County: Lea

15. Date Spudded	16. Date T.D. Reached	17. Date Compl. (Ready to Prod.)	18. Elevations (DF, RKB, RT, GR, etc.)	19. Elev. Cashinghead
7-19-69	9-4-69		3937 GL	

20. Total Depth	21. Plug Back T.D.	22. If Multiple Compl., How Many	23. Intervals Drilled By	Rotary Tools	Cable Tools
11,800	Surface		→	0-11,800	

24. Producing Interval(s), of this completion — Top, Bottom, Name: None

25. Was Directional Survey Made: No

26. Type Electric and Other Logs Run: GRN, DIL, Proximity ML, CAL

27. Was Well Cored: No

28. CASING RECORD (Report all strings set in well)

CASING SIZE	WEIGHT LB./FT.	DEPTH SET	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
13-3/8	48	408	17-1/2	410 sx	None
8-5/8	24 - 32	4662	11	350 sx	1308
4-1/2	11.6	11,007	7-7/8	240 sx	9799

29. LINER RECORD

SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN

30. TUBING RECORD

SIZE	DEPTH SET	PACKER SET

31. Perforation Record (Interval, size and number)

10,656-678'	4-1/2	40 holes
~~10,700-710'~~	~~4-1/2~~	~~20 holes~~
10,744-752'	4-1/2	16 holes
10,758-763'	4-1/2	10 holes
10,600-604'	4-1/2	8 holes

32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL	AMOUNT AND KIND MATERIAL USED
10,600-604'	350 gal. BDA

33. PRODUCTION

Date First Production	Production Method (Flowing, gas lift, pumping — Size and type pump)	Well Status (Prod. or Shut-in)

Date of Test	Hours Tested	Choke Size	Prod'n. For Test Period →	Oil — Bbl.	Gas — MCF	Water — Bbl.	Gas—Oil Ratio

Flow Tubing Press.	Casing Pressure	Calculated 24-Hour Rate →	Oil — Bbl.	Gas — MCF	Water — Bbl.	Oil Gravity — API (Corr.)

34. Disposition of Gas (Sold, used for fuel, vented, etc.)

Test Witnessed By

35. List of Attachments: One set of logs

36. *I hereby certify that the information shown on both sides of this form is true and complete to the best of my knowledge and belief.*

SIGNED O. Friedrich TITLE Engineer DATE Oct. 27, 1969

INSTRUCTIONS

This form is to be filed with the appropriate District Office of the Commission not later than 20 days after the completion of any newly-drilled or deepened well. It shall be accompanied by one copy of all electrical and radio-activity logs run on the well and a summary of all special tests conducted, including drill stem tests. All depths reported shall be measured depths. In the case of directionally drilled wells, true vertical depths shall also be reported. For multiple completions, Items 30 through 34 shall be reported for each zone. The form is to be filed in quintuplicate except on state land, where six copies are required. See Rule 1105.

INDICATE FORMATION TOPS IN CONFORMANCE WITH GEOGRAPHICAL SECTION OF STATE

Southeastern New Mexico				Northwestern New Mexico			
T. Anhy	2157	T. Canyon	11,356	T. Ojo Alamo		T. Penn. "B"	
T. Salt		T. Strawn		T. Kirtland-Fruitland		T. Penn. "C"	
B. Salt		T. Atoka		T. Pictured Cliffs		T. Penn. "D"	
T. Yates	3135	T. Miss		T. Cliff House		T. Leadville	
T. 7 Rivers		T. Devonian		T. Menefee		T. Madison	
T. Queen		T. Silurian		T. Point Lookout		T. Elbert	
T. Grayburg		T. Montoya		T. Mancos		T. McCracken	
T. San Andres	4606	T. Simpson		T. Gallup		T. Ignacio Qtzte	
T. Glorieta	5598	T. McKee		Base Greenhorn		T. Granite	
T. Paddock		T. Ellenburger		T. Dakota		T.	
T. Blinebry		T. Gr. Wash		T. Morrison		T.	
T. Tubb	7572	T. Granite		T. Todilto		T.	
T. Drinkard		T. Delaware Sand		T. Entrada		T.	
T. Abo	8293	T. Bone Springs		T. Wingate		T.	
T. Wolfcamp	9845	T.		T. Chinle		T.	
T. Penn.	10,363	T.		T. Permian		T.	
T. Cisco (Bough C)	10,586	T.		T. Penn. "A"		T.	

FORMATION RECORD (Attach additional sheets if necessary)

From	To	Thickness in Feet	Formation	From	To	Thickness in Feet	Formation
Surface	2157	2157	Red beds				
	4606	2449	Anhy., Red beds & salt				
	5598	992	Dolo. and Anhy.				
	7572	1974	Sand, Anhy. & salt stringers				
	8293	721	Anhy., dolo. & sand				
	9862	1569	Dolo. and Anhy.				
	10,586	724	Lime and shale				
	11,800	1214	Dolo, shale & lime.				

Form C-105
Revised 10-1-78

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

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

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WELL COMPLETION OR RECOMPLETION REPORT AND LOG

RECEIVED
JUL 20 1983
OIL CONSERVATION DIVISION
SANTA FE

RECEIVED MAR 30 1982
OIL CONSERVATION DIVISION

5a. Indicate Type of Lease: State [ ] Fee [X]
5. State Oil & Gas Lease No.:

1a. TYPE OF WELL: OIL WELL [ ] GAS WELL [X] DRY [ ] OTHER
b. TYPE OF COMPLETION: NEW WELL [X] WORK OVER [ ] DEEPEN [ ] PLUG BACK [ ] DIFF. RESVR. [ ] OTHER
7. Unit Agreement Name: McDonald Unit
8. Farm or Lease Name:
2. Name of Operator: Harvey E. Yates Company
9. Well No.: 1
3. Address of Operator: P. O. Box 1933, Roswell, New Mexico 88201
10. Field and Pool, or Wildcat: Wildcat
4. Location of Well
UNIT LETTER P LOCATED 660 FEET FROM THE South LINE AND 990 FEET FROM THE East LINE OF SEC. 33 TWP. 13S RGE. 36E NMPM
12. County: Lea

15. Date Spudded	16. Date T.D. Reached	17. Date Compl. (Ready to Prod.)	18. Elevations (DF, RKB, RT, GR, etc.)	19. Elev. Cashinghead
6/13/81	9/18/81	3/23/82	3966.4 RKB	3951 GR

20. Total Depth	21. Plug Back T.D.	22. If Multiple Compl., How Many	23. Intervals Drilled By	Rotary Tools	Cable Tools
14593	12965	-	→	0-14593	-

24. Producing Interval(s), of this completion — Top, Bottom, Name
12740 to 12782 (Atoka)

25. Was Directional Survey Made: NO

26. Type Electric and Other Logs Run
Dresser Atlas CD/CN/GR & DLL/MLL Geo Vann GR/N CBL

27. Was Well Cored: NO

28. CASING RECORD (Report all strings set in well)

CASING SIZE	WEIGHT LB./FT.	DEPTH SET	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
13 3/8	48	367	17 1/2	400 sx	0
8 5/8	28-24-32	4611	11	2150 sxs	0
5 1/2	30 - 17	14587	7 7/8	1) 280 sxs 2) 475 sxs DV tool @13500'	0
				3) 650 sxs DV Tool @ 11400	0

29. LINER RECORD

SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN
	NONE			

30. TUBING RECORD

SIZE	DEPTH SET	PACKER SET
2 3/8	12707	12707

31. Perforation Record (Interval, size and number)
12740 to 12782' w/4 JSPF 168 - 1/2" holes

32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL	AMOUNT AND KIND MATERIAL USED
12740 - 12782	500 gals 10% MCA
	5000 gals 7.5% Morrow Flow Mo
	15000 gals 7.5% Morrow Flos Mo

33. PRODUCTION

Date First Production	Production Method (Flowing, gas lift, pumping — Size and type pump)	Well Status (Prod. or Shut-in)
2/25/82	Flowing	Shut In

Date of Test	Hours Tested	Choke Size	Prod'n. For Test Period →	Oil — Bbl.	Gas — MCF	Water — Bbl.	Gas—Oil Ratio
3/23/82	1.0 hrs	3/8		-	129	trace	-

Flow Tubing Press.	Casing Pressure	Calculated 24-Hour Rate →	Oil — Bbl.	Gas — MCF	Water — Bbl.	Oil Gravity — API (Corr.)
900	-		-	3104	trace	-

34. Disposition of Gas (Sold, used for fuel, vented, etc.)
Test Witnessed By

35. List of Attachments

36. I hereby certify that the information shown on both sides of this form is true and complete to the best of my knowledge and belief.

SIGNED Rick Sander TITLE Engineer DATE March 24, 1982

INSTRUCTIONS

This form is to be filed with the appropriate District Office of the Division not later than 20 days after the completion of any newly-drilled or deepened well. It shall be accompanied by one copy of all electrical and radioactivity logs run on the well and a summary of all special tests conducted, including drill stem tests. All depths reported shall be measured from the derrick floor. In the case of directionally drilled wells, true vertical depths shall also be reported. Within 10 days after completion of the well, this form shall be filed in quintuplicate. The forms are to be filed in quintuplicate except on state land, where six copies are required. See Rule 1105.

INDICATE FORMATION TOPS IN CONFORMANCE WITH GEOGRAPHICAL SECTION OF STATE

Southeastern New Mexico				Northwestern New Mexico			
T. Anhy		T. Canyon	10962	T. Ojo Alamo		T. Penn. "B"	
T. Salt		T. Strawn	11567	T. Kirtland-Fruitland		T. Penn. "C"	
B. Salt		T. Atoka	12213	T. Pictured Cliffs		T. Penn. "D"	
T. Yates	3036	T. Miss Lime	13550	T. Cliff House		T. Leadville	
T. 7 Rivers	3216	T. Devonian	14362	T. Menefee		T. Madison	
T. Queen	3550	T. Silurian		T. Point Lookout		T. Elbert	
T. Grayburg		T. Montoya		T. Mancos		T. McCracken	
T. San Andres	4577	T. Simpson		T. Gallup		T. Ignacio Qtzte	
T. Glorieta		T. McKee		Base Greenhorn		T. Granite	
T. Paddock		T. Ellenburger		T. Dakota		T.	
T. Blinebry		T. Gr. Wash		T. Morrison		T. Wood Fork	14290
T. Tubb		T. Granite		T. Todilto		T.	
T. Drinkard		T. Delaware Sand		T. Entrada		T.	
T. Abo	8150	T. Bone Springs		T. Wingate		T.	
T. Wolfcamp	9744	T. Morrow Lime	12792	T. Chinle		T.	
T. Penn.	10509	T. Austin Miss	13059	T. Permian		T.	
T. Cisco (Bough C)		T. Chester	13278	T. Penn. "A"		T.	

OIL OR GAS SANDS OR ZONES

No. 1, from.....to..... No. 4, from.....to.....

No. 2, from.....to..... No. 5, from.....to.....

No. 3, from.....to..... No. 6, from.....to.....

IMPORTANT WATER SANDS

Include data on rate of water inflow and elevation to which water rose in hole.

No. 1, from.....to.....feet. .....

No. 2, from.....to.....feet. .....

No. 3, from.....to.....feet. .....

No. 4, from.....to.....feet. .....

FORMATION RECORD (Attach additional sheets if necessary)

From	To	Thickness in Feet	Formation	From	To	Thickness in Feet	Formation
0	2260	2260	Red Bed				
2260	4600	2340	Anhy				
4600	8187	3587	Lime				
8187	8445	258	Dolo				
8445	9833	1388	Shale & Sand				
9833	10341	508	Dolo, Shale & Lime				
10341	11344	1003	Shale				
11344	14547	3203	Lime & Shale				
14547	14582	35	Lime & Dolo				

Gelly

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Form C-105
Revised 1-1-65

NEW MEXICO OIL CONSERVATION COMMISSION
WELL COMPLETION OR RECOMPLETION REPORT AND LOG

5a. Indicate Type of Lease: State ☐ Fee ☒

5. State Oil & Gas Lease No.: -----

1a. TYPE OF WELL: OIL WELL ☒ GAS WELL ☐ DRY ☐

b. TYPE OF COMPLETION: NEW WELL ☒ WORK OVER ☐ DEEPEN ☐ PLUG BACK ☐ DIFF. RESVR. ☐ OTHER

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SANTA FE

7. Unit Agreement Name: --------

8. Farm or Lease Name: E. L. Richardson

2. Name of Operator: Skelly Oil Company

9. Well No.: 1

3. Address of Operator: P. O. Box 1351, Midland, Texas 79701

10. Field and Pool, or Wildcat: ~~Undesignated~~ McDonald Pe

4. Location of Well: UNIT LETTER O LOCATED 1980 FEET FROM THE East LINE AND 660 FEET FROM

12. County: Lea

THE South LINE OF SEC. 33 TWP. 13S RGE. 36E NMPM

15. Date Spudded	16. Date T.D. Reached	17. Date Compl. (Ready to Prod.)	18. Elevations (DF, RKB, RT, GR, etc.)	19. Elev. Cashinghead
April 14, 1972	May 16, 1972	May 25, 1972	3965' D. F.	------

20. Total Depth	21. Plug Back T.D.	22. If Multiple Compl., How Many	23. Intervals Drilled By	Rotary Tools	Cable Tools
11,385'	10,416'	------	→	0-11,385'	-----

24. Producing Interval(s), of this completion — Top, Bottom, Name: 10,300-10,309' (Bough "A")

25. Was Directional Survey Made: No

26. Type Electric and Other Logs Run: Acoustilog with Caliper and Gamma Ray; Dual Drill Stem Tests No.1 and 2; Induction Focused Log with SP; Dip Log; Gamma Ray Collar Log.

27. Was Well Cored: No

CASING RECORD (Report all strings set in well)

CASING SIZE	WEIGHT LB./FT.	DEPTH SET	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
13-3/8"	54.5 & 61#	422'	17-1/2"	450 sacks	None
8-5/8"	32#	4580'	11"	1825 sacks	None
5-1/2"	20 & 17#	10,505'	7-7/8"	400 sacks	None
					Toe @ 8590

LINER RECORD

SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN

30. TUBING RECORD

SIZE	DEPTH SET	PACKER SET
2-3/8"	10,219'	10,219'

Perforation Record (Interval, size and number)

10,300-10,309'; two 3/8" holes per foot (9'; 18 holes)

32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL	AMOUNT AND KIND MATERIAL USED
10,300-10,309'	750 gals. 15% MBA acid
10,300-10,309'	500 gals. 15% NE acid and 1500 gals. 15% RA-1 Acid
10,300-10,309'	5,000 gals. 15% RA-1 acid; 250 gals. gelled water; 5 ball sea

PRODUCTION

Date First Production	Production Method (Flowing, gas lift, pumping — Size and type pump)	Well Status (Prod. or Shut-in)
May 25, 1972	Flowing	Producing

Date of Test	Hours Tested	Choke Size	Prod'n. For Test Period →	Oil — Bbl.	Gas — MCF	Water — Bbl.	Gas — Oil Ratio
July 9, 1972	24	32/64"		26	89	1	3243:1

Flow Tubing Press.	Casing Pressure	Calculated 24-Hour Rate →	Oil — Bbl.	Gas — MCF	Water — Bbl.	Oil Gravity — API (Corr.)
50#	0#		26	89	1	38.8°

Disposition of Gas (Sold, used for fuel, vented, etc.): Vented (will be sold)

Test Witnessed By: ------

List of Attachments: Summary of Drill Stem Tests; Dual Induction Focused Log; BHC Acoustilog; Gammatron Depth Contr Log

I hereby certify that the information shown on both sides of this form is true and complete to the best of my knowledge and belief.

SIGNED J. R. Avent TITLE Dist. Admin. Coordinator DATE July 12, 1972

Summary of Drill Stem Tests;

Drill Stem Test #1: 10,260-10,300' (Bough "A"). 5/8" BHC, 1/4" THC. Opened tool at 8:25 a.m. 5-8-72 for 10-minute preflow; had blow immediately with strong blow throughout flow, gas to surface in 22 minutes; shut in 1 hour; opened 1 hour on final flow, had blow immediately with strong blow throughout test. Last 20 minutes measured 74 MCFGPD. Recovered 1300' of oil (16 barrels), 40.9 gravity at 60° F. plus 30' of gas- and oil-cut mud. Pressures: 10-min. IFP 131#; 1-hour ISIP 3461#; FFP 310#; 2-hour FSIP 3346# IH 5254#; FH 4960#. In sample chamber recovered 525 cc's of oil, 1.56 cu. ft. gas; did not get pressure; plugged off with shale.

Drill Stem Test #2: 10,510-10,532' (Cisco Canyon). 5/8" BHC and 1/2" THC. Opened Tool at 6:20 a.m. 5-11-72 for 10-minute preflow; had immediate blow, good throughout test; shut in 1 hour; opened one hour on final flow, had good blow immediately with strong blow throughout test. No gas to surface. Recovered 1000' (14 bbls.) of fresh water blanket; 2450' (31 bbls.) sulpher water, trace of oil, no mud, no gas. Pulled out of hole with test tools. Pressures: 10-minute IFP from 0-580#; 1-hour ISIP 580-4115#; FFP 580-1332#; 2-hour FSIP 1332-4115#; IH 4976#, FH 4993#. In sample chamber had 100# pressure, no cc's oil, 2560 cc's water with 3000 ppm chlorides.

INSTRUCTIONS

This form is to be filed with the appropriate District Office of the Commission not later than 20 days after the completion of any newly-drilled or deepened well. It shall be accompanied by one copy of all electrical and radio-activity logs run on the well and a summary of all special tests conducted, including drill stem tests. All depths reported shall be measured depths. In the case of directionally drilled wells, true vertical depths shall also be reported. For multiple completions, Items 30 through 34 shall be reported for each zone. The form is to be filed in quintuplicate except on state land, where six copies are required. See Rule 1105.

INDICATE FORMATION TOPS IN CONFORMANCE WITH GEOGRAPHICAL SECTION OF STATE

Southeastern New Mexico				Northwestern New Mexico			
T. Anhy	2130'	T. Canyon		T. Ojo Alamo		T. Penn. "B"	
T. Salt		T. Strawn		T. Kirtland-Fruitland		T. Penn. "C"	
B. Salt		T. Atoka		T. Pictured Cliffs		T. Penn. "D"	
T. Yates	3090'	T. Miss		T. Cliff House		T. Leadville	
T. 7 Rivers		T. Devonian		T. Menefee		T. Madison	
T. Queen		T. Silurian		T. Point Lookout		T. Elbert	
T. Grayburg		T. Montoya		T. Mancos		T. McCracken	
T. San Andres	4544'	T. Simpson		T. Gallup		T. Ignacio Qtzte	
T. Glorieta	6112'	T. McKee		Base Greenhorn		T. Granite	
T. Paddock		T. Ellenburger		T. Dakota		T. Bough "B"	10,343'
T. Blinebry		T. Gr. Wash		T. Morrison		T. Bough "C"	10,380'
T. Tubb	7490'	T. Granite		T. Todilto		T. Cisco	10,540'
T. Drinkard		T. Delaware Sand		T. Entrada		T. Canyon	11,293'
T. Abo	8204'	T. Bone Springs		T. Wingate		T.	
T. Wolfcamp	9745'	T. Clear Fork	6826'	T. Chinle		T.	
T. Penn.		T. Hueco	9984'	T. Permian		T.	
T Cisco (Bough C)		T. Bough "A"	10,300'	T. Penn. "A"		T.	

FORMATION RECORD (Attach additional sheets if necessary)

From	To	Thickness in Feet	Formation	From	To	Thickness in Feet	Formation
0'	1872	1872	Sand and Redbeds				
1872'	2493	621	Anhydrite and Salt				
2493'	3172	679	Salt				
3172'	3397	225	Anhydrite, Gyp and Salt				
3397'	3810	413	Anhydrite and Salt				
3810'	4205	395	Anhydrite and Gyp				
4205'	4580	375	Anhydrite and Lime				
4580'	8553	3973	Lime				
8553'	8717	164	Lime and Abo				
8717'	8940	223	Lime and Shale				
8940'	10,166	1226	Lime				
10,166'	10,468	302	Lime and Shale				
10,468'	10,530	62	Lime				
10,530'	10,714	184	Lime and Shale				
10,714'	11,385	671	Lime				

STATE OF NEW MEXICO
ERGY AND MINERALS DEPARTMENT

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OIL CONSERVATION DIVISION

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WELL COMPLETION OR RECOMPLETION REPORT AND LOG

5a. Indicate Type of Lease: State ☐ Fee ☒
5. State Oil & Gas Lease No.

TYPE OF WELL: OIL WELL ☒ GAS WELL ☐ DRY ☐ OTHER ☐

TYPE OF COMPLETION: NEW WELL ☒ WORK OVER ☐ DEEPEN ☐ PLUG BACK ☐ DIFF. RESVR. ☐ OTHER ☐

7. Unit Agreement Name: McDonald Unit
8. Farm or Lease Name:
9. Well No.: 2
10. Field and Pool, or Wildcat: McDonald Wildcat-Devonian

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Name of Operator: Harvey E. Yates Company
Address of Operator: P. O. Box 1933, Roswell, New Mexico 88201
Location of Well: Unit Letter D Located 660 Feet From The North Line And 660 Feet From The West Line Of Sec. 3 Twp. 14S Rge. 36E NMPM
12. County: Lea

15. Date Spudded	16. Date T.D. Reached	17. Date Compl. (Ready to Prod.)	18. Elevations (DF, RKB, RT, GR, etc.)	19. Elev. Cashinghead
3/28/82	6/19/82	7/08/82		

20. Total Depth	21. Plug Back T.D.	22. If Multiple Compl., How Many	23. Intervals Drilled By	Rotary Tools	Cable Tools
14,592'	14,584'		→	0-14592	

24. Producing Interval(s), of this completion — Top, Bottom, Name: 14,556'-14,568' Devonian
25. Was Directional Survey Made: Yes

26. Type Electric and Other Logs Run: CN/CDL/GR; DIFL/GR; Diplog; Prolog; GR/CBL
27. Was Well Cored: No

CASING RECORD (Report all strings set in well)

CASING SIZE	WEIGHT LB./FT.	DEPTH SET	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
13 3/8	48	377	17 1/2	400	None
8 5/8	24, 28, 32	4630	11	1600	None
5 1/2	17	~~14592~~ 14585	7 7/8	1659	None

LINER RECORD

SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN

30. TUBING RECORD

SIZE	DEPTH SET	PACKER SET
2 3/8	14504	14504

28. Perforation Record (Interval, size and number)

14556 to 14564 - 1/2" diameter - 16 holes
14564 to 14568 - 1/2" diameter - 4 holes

32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL	AMOUNT AND KIND MATERIAL USED
None	

PRODUCTION

Date First Production	Production Method (Flowing, gas lift, pumping — Size and type pump)	Well Status (Prod. or Shut-in)
7/08/82	Flow	Prod.

Date of Test	Hours Tested	Choke Size	Prod'n. For Test Period →	Oil — Bbl.	Gas — MCF	Water — Bbl.	Gas—Oil Ratio
7/10/82	24	1/8"		312	149.8	0	480

Flow Tubing Press.	Casing Pressure	Calculated 24-Hour Rate →	Oil — Bbl.	Gas — MCF	Water — Bbl.	Oil Gravity — API (Corr.)
1100	0		312	149.8	0	56°

29. Disposition of Gas (Sold, used for fuel, vented, etc.): Vented
Test Witnessed By: Bob Williams

30. List of Attachments

I hereby certify that the information shown on both sides of this form is true and complete to the best of my knowledge and belief.

SIGNED Clark T Sandlin TITLE Engineer DATE 7/12/82

INSTRUCTIONS

This form is to be filed with the appropriate District Office of the Division not later than 20 days after the completion of any newly-drilled or deepened well. It shall be accompanied by one copy of all electrical and radioactivity logs run on the well and a summary of all special tests conducted, including drill stem tests. All depths reported shall be measured depths. In the case of directionally drilled wells, true vertical depths shall also be reported. For multiple completions, Items 30 through 34 shall be reported for each zone. The form is to be filed in quintuplicate except on state land, where six copies are required. See Rule 1105.

INDICATE FORMATION TOPS IN CONFORMANCE WITH GEOGRAPHICAL SECTION OF STATE

Southeastern New Mexico				Northwestern New Mexico			
T. Anhy	2145	T. Canyon	10988	T. Ojo Alamo		T. Penn. "B"	
T. Salt	2230	T. Strawn Lm	11976	T. Kirtland-Fruitland		T. Penn. "C"	
B. Salt		T. Atoka	12265	T. Pictured Cliffs		T. Penn. "D"	
T. Yates	3078	T. Miss	13501	T. Cliff House		T. Leadville	
T. 7 Rivers	3210	T. Devonian	14365	T. Menefee		T. Madison	
T. Queen	3873	T. Silurian		T. Point Lookout		T. Elbert	
T. Grayburg	4255	T. Montoya		T. Mancos		T. McCracken	
T. San Andres	4530	T. Simpson		T. Gallup		T. Ignacio Qtzte	
T. Glorieta	6107	T. McKee		Base Greenhorn		T. Granite	
T. Paddock		T. Ellenburger		T. Dakota		T. Morrow	12658
T. Blinebry		T. Gr. Wash		T. Morrison		T. Austin	12928
T. Tubb	7462	T. Granite		T. Todilto		T. Chester	13178
T. Drinkard		T. Delaware Sand		T. Entrada		T. Woodford	14234
T. Abo	8185	T. Bone Springs		T. Wingate		T.	
T. Wolfcamp	9764	T. Bowers	3656	T. Chinle		T.	
T. Penn.		T. Penrose	4040	T. Permian		T.	
T. Cisco (Bough C)		T.		T. Penn. "A"		T.	

OIL OR GAS SANDS OR ZONES

No. 1, from ..... to ..... No. 4, from ..... to .....

No. 2, from ..... to ..... No. 5, from ..... to .....

No. 3, from ..... to ..... No. 6, from ..... to .....

IMPORTANT WATER SANDS

Include data on rate of water inflow and elevation to which water rose in hole.

No. 1, from ..... to ..... feet. .....

No. 2, from ..... to ..... feet. .....

No. 3, from ..... to ..... feet. .....

No. 4, from ..... to ..... feet. .....

FORMATION RECORD (Attach additional sheets if necessary)

From	To	Thickness in Feet	Formation	From	To	Thickness in Feet	Formation
0	1909		Red Bed	12269	12314		Lm, Sd, Sh
1909	2169		Red Bed & Anhy	21314	12937		Lm & Sh
2169	2225		Anhy	12937	12974		Lm
2225	2318		Red Bed, Anhy, Shale	12974	13364		Lm & Sh
2318	3190		Anhy & Salt	13364	13386		Sh
3190	3755		Anhy & Gyp	13386	14287		Lm & Sh
3755	4019		Anhy	14287	14322		Sh
4019	4630		Anhy & Lm	14322	14592		Lm & Sh
4630	8234		Lm				
8234	10104		Lm & Sh				
10104	10194		Lm & Chert				
10194	10265		Lm, Sh, Chert				
10265	11938		Lm & Sh				
11938	11952		Lm, Sd, Sh				
11952	12269		Lm & Sh				

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Form C-105
Revised 1-1-65

NEW MEXICO OIL CONSERVATION COMMISSION

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

5a. Indicate Type of Lease: State ☐ Fee ☒

5. State Oil & Gas Lease No.

1a. TYPE OF WELL

b. TYPE OF COMPLETION: NEW WELL ☒ WORK OVER ☐ DEEPEN ☐ PLUG BACK ☐ DIFF. RESVR. ☐ OTHER ☐

OIL WELL ☒ GAS WELL ☐ DRY ☐ OTHER ☐

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7. Unit Agreement Name

8. Farm or Lease Name: Griffin

2. Name of Operator: J.M. Huber Corporation

9. Well No.: 1

3. Address of Operator: 1900 Wilco Building, Midland, Texas 79701

10. Field and Pool, or Wildcat: Undesignated-Bough A

4. Location of Well

UNIT LETTER A LOCATED 660 FEET FROM THE North LINE AND 660 FEET FROM THE East LINE OF SEC. 4 TWP. 14-S RGE. 36-E NMPM

12. County: Lea

15. Date Spudded	16. Date T.D. Reached	17. Date Compl. (Ready to Prod.)	18. Elevations (DF, RKB, RT, GR, etc.)	19. Elev. Cashinghead
5/26/71	7/6/71	7/23/71	3947.6' GR	3948

20. Total Depth	21. Plug Back T.D.	22. If Multiple Compl., How Many	23. Intervals Drilled By	Rotary Tools	Cable Tools
11,475	10,425		→	0-11,475'	

24. Producing Interval(s), of this completion — Top, Bottom, Name

10,203' - 10,210', Bough "A"

25. Was Directional Survey Made: No

26. Type Electric and Other Logs Run

Dual Induction & Acoustilog & Gamma Ray Correlation Log

27. Was Well Cored: No

28. CASING RECORD (Report all strings set in well)

CASING SIZE	WEIGHT LB./FT.	DEPTH SET	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
13-3/8	48 & 54.5	423	17-1/2	350 sx	None
9-5/8	36 & 40	4,575	12-3/4	450 sx	None
5-1/2	15.5 & 17	10,700	8-3/4	340 sx	None

29. LINER RECORD

SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN

30. TUBING RECORD

SIZE	DEPTH SET	PACKER SET
2-3/8	10,177'	10,177

31. Perforation Record (Interval, size and number)

10,203' - 10,210' - 14 holes 3/8"

32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL	AMOUNT AND KIND MATERIAL USED
10,203-10,210'	1000 gals. 15% Spearhead
10,203-10,210'	3000 gals. 20% Retarded

33. PRODUCTION

Date First Production	Production Method (Flowing, gas lift, pumping — Size and type pump)	Well Status (Prod. or Shut-in)
7/20/71	Flowing	Producing

Date of Test	Hours Tested	Choke Size	Prod'n. For Test Period →	Oil — Bbl.	Gas — MCF	Water — Bbl.	Gas — Oil Ratio
7/28/71	12	24/64		179	290	None	1623

Flow Tubing Press.	Casing Pressure	Calculated 24-Hour Rate →	Oil — Bbl.	Gas — MCF	Water — Bbl.	Oil Gravity — API (Corr.)
350	Packer		358	580	None	42°

34. Disposition of Gas (Sold, used for fuel, vented, etc.)

Vented

Test Witnessed By

35. List of Attachments

Logs, C-104, Deviation Record, C-102, Testing Record, C-123

36. I hereby certify that the information shown on both sides of this form is true and complete to the best of my knowledge and belief.

SIGNED Floyd L. Meade TITLE District Prod. Supt. DATE 7/29/71

INSTRUCTIONS

This form is to be filed with the appropriate District Office of the Commission not later than 20 days after the completion of any newly-drilled or deepened well. It shall be accompanied by one copy of all electrical and radio-activity logs run on the well and a summary of all special tests conducted, including drill stem tests. All depths reported shall be measured depths. In the case of directionally drilled wells, true vertical depths shall also be reported. For multiple completions, Items 30 through 34 shall be reported for each zone. The form is to be filed in quintuplicate except on state land, where six copies are required. See Rule 1105.

INDICATE FORMATION TOPS IN CONFORMANCE WITH GEOGRAPHICAL SECTION OF STATE

Southeastern New Mexico				Northwestern New Mexico			
T. Anhy		T. Canyon	11,303'	T. Ojo Alamo		T. Penn. "B"	
T. Salt		T. Strawn		T. Kirtland-Fruitland		T. Penn. "C"	
B. Salt		T. Atoka		T. Pictured Cliffs		T. Penn. "D"	
T. Yates		T. Miss		T. Cliff House		T. Leadville	
T. 7 Rivers		T. Devonian		T. Menefee		T. Madison	
T. Queen		T. Silurian		T. Point Lookout		T. Elbert	
T. Grayburg		T. Montoya		T. Mancos		T. McCracken	
T. San Andres	4,540'	T. Simpson		T. Gallup		T. Ignacio Qtzte	
T. Glorieta	6,085'	T. McKee		Base Greenhorn		T. Granite	
T. Paddock		T. Ellenburger		T. Dakota		T.	
T. Blinebry		T. Gr. Wash		T. Morrison		T.	
T. Tubb	7,437'	T. Granite		T. Todilto		T.	
T. Drinkard		T. Delaware Sand		T. Entrada		T.	
T. Abo		T. Bone Springs		T. Wingate		T.	
T. Wolfcamp	9,395'	T.		T. Chinle		T.	
T. Penn.		T.		T. Permian		T.	
T Cisco (Bough C)	10,494'	T.		T. Penn. "A"		T.	

FORMATION RECORD (Attach additional sheets if necessary)

From	To	Thickness in Feet	Formation	From	To	Thickness in Feet	Formation
0	423	423	Redbed				
423	2025	1602	Redbed & Gyp				
2,025	2482	457	Salt & Anhydrite				
2,482	3320	838	Anhydrite				
3,320	3945	625	Lime				
3,945	4365	420	Lime & Gyp				
4,365	9901	5536	Lime				
9,901	10020	119	Lime & Chert				
0,020	10170	150	Lime & Shale				
0,170	10398	228	Lime				
0,398	10528	130	Dolomite				
0,528	10770	242	Lime				
0,770	11312	542	Dolomite				
1,312	11475	163	Lime - Total Depth				

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NEW MEXICO OIL CONSERVATION COMMISSION

Supersedes Old C-102 and C-103
Effective 1-1-65

5a. Indicate Type of Lease: State ☐ Fee ☒

5. State Oil & Gas Lease No.

SUNDRY NOTICES AND REPORTS ON WELLS

(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT —" (FORM C-101) FOR SUCH PROPOSALS.)

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SANTA FE

7. Unit Agreement Name

WELL ☒ GAS WELL ☐ OTHER-

8. Farm or Lease Name: Griffin

Name of Operator: J. M. Huber Corp.

9. Well No.: 1

Address of Operator: 1900 Wilco Bldg., Midland, Texas 79701

10. Field and Pool, or Wildcat: McDonald (Penn)

Location of Well: UNIT LETTER A, 660 FEET FROM THE North LINE AND 660 FEET FROM THE East LINE, SECTION 4 TOWNSHIP 14-S RANGE 36-E NMPM.

15. Elevation (Show whether DF, RT, GR, etc.): 3949.9' GL

12. County: Lea

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

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
PERFORM REMEDIAL WORK ☐	PLUG AND ABANDON ☐	REMEDIAL WORK ☒	ALTERING CASING ☐
TEMPORARILY ABANDON ☐		COMMENCE DRILLING OPNS. ☐	PLUG AND ABANDONMENT ☐
PULL OR ALTER CASING ☐	CHANGE PLANS ☐	CASING TEST AND CEMENT JOB ☐	
OTHER ☐		OTHER ☐	

Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work) SEE RULE 1103.

2-6-81 Pressure tested 5 1/2" csg w/tbg and pkr, found csg leak at 9701'. Left Baker Lockset pkr w/shut-off valve at 10,403' above perf 10,502'-10,511'. Could not pump into perfs 10,203'-10,305'. Left well Shut-in.

3-15-81 Set retrievable BP at 9849' w/2 sxs sand on top.

3-16-81 Broke circulation to surface, cmt w/2,760 sxs cmt, circulated 482 sxs to pit.

3-17-81 Thru 3-21-81 Tagged top cmt at 8709'. Drilled cmt out to 9726'. Tested csg leak to 1500 psi. Held OK. Pulled retrievable bridge plug.

3-24-81 Ran production equipment.

4-1-81 24 hr pumping test 43 BO and 208 BW, gas TSTM, 10 1/2 - 120" SPM.

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNED [signature] TITLE Dist. Production Manager DATE

APPROVED BY TITLE DATE APR 13 1981

CONDITIONS OF APPROVAL, IF ANY:

J.M. HUBER CORPORATION
GRIFFIN NO. 1

Attachment to C-105

DST #1, 9650' - 9685' (Wolfcamp). Open 1 hour and 20 minutes. Recovered 2590' mud blanket, SO&GC.

IHP	4425	
PFP	1097-1097	20 minutes
ISIP	3621	1 hour
FFP	1097-1097	1 hour
FSIP	3621	2 hours
FHP	4380	

Sample chamber recovery - 900cc HOCM and 2.2 cu. ft. gas at 900 PSI.

DST #2, 10,178' - 10,216'. Open 1 hour and 20 minutes. Preflow opened w/strong blow, GTS in 9 minutes. At end of 20 minute preflow, FP 67# on 1/4" choke, Gas Volume 115,000. FF - 1/2" choke, at 30 minutes FP 35 PSI, Gas Volume 320 MCF, decreasing at 60 minutes to FP of 32 PSI, 310 MCF. Reversed out 1650' of 38.5° API oil.

IHP	4870	
PFP	183-274	20 minutes
ISIP	3755	1 hour
FFP	274-549	1 hour
FSIP	3621	2 hours
FHP	4870	
BHT	180°	

Sample chamber recovery - 1.8 cu. ft. gas, 600 cc's oil at 500 PSI.

DST #3, 10,488' - 10,528'. Open 1 hour and 20 minutes. GTS in 38 minutes. Good blow throughout. Flowed and reversed out an estimated 5 barrels drilling fluid, 85 barrels GCO, and 15 barrels GCSW. Oil 42.5° API.

IHP	5045	
PFP	508-1830	20 minutes
ISIP	4028	1 hour
FFP	1830-3627	1 hour
FSIP	4072	2 hours
FHP	4957	

Tool plugging throughout test. Sample chamber recovery - black sulphur water.

DST #4, 10,808' - 10,885' (Middle Cisco). Open 1-1/2 hours. Fair blow throughout. Recovered 560' DM, 370' SSWCDM + 8200' SSW.

IHP	5103	
PFP	299-2474	30 minutes
ISIP	4256	1-1/2 hours
FFP	2559-4129	1 hour
FSIP	4256	2 hours
FHP	5060	
BHT	172° F	

Testing Record through 5-1/2"

Perforated 10,502' - 10,511' w/18 - 3/8" holes. Tested natural, last test making 7 BOPH w/60% sulphur water. Set CIBP at 10,435' w/10' cement on top.

Perforated 10,293' - 10,305' w/24 - 3/8" holes. Acidized w/1000 gals. 15% Spearhead Acid. Swabbed dry - no fluid entry.

Perforated 10,266' - 10,275' w/28 - 3/8" holes. Acidized w/2000 gals. 15% Spearhead Acid. Swabbed dry - no fluid entry.

SECTION VII

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

1342-A

HALLIBURTON DIVISION LABORATORY

HALLIBURTON SERVICES
MIDLAND DIVISION
HOBBS, NEW MEXICO 88240

SEP 10 1982

LABORATORY WATER ANALYSIS

No. W82-978

To Harvey E. Yates

Box 1933

Roswell, New Mexico

Date 9-8-82

Submitted by

Date Rec 9-7-82

Well No. McDonald #2 Depth Formation

County Field Source

Resistivity	0.167 @ 74°F.	
Specific Gravity	1.031	
pH	7.0	
Calcium (Ca)	2,100	*MPL
Magnesium (Mg)	Nil	
Chlorides (Cl)	23,500	
Sulfates (SO_4)	2,850	
Bicarbonates (HCO_3)	855	
Soluble Iron (Fe)	Nil	

Remarks Nitrate determination was not conclusive, due to the high coloration of the water.

*Milligrams per liter

Respectfully submitted,

Analyst: Brewer

HALLIBURTON COMPANY

cc:

By W. L. Brewer
CHEMIST

NOTICE

Phone
713-790-9132

LYNES, INC.

Box 12486
Houston, TX 77017

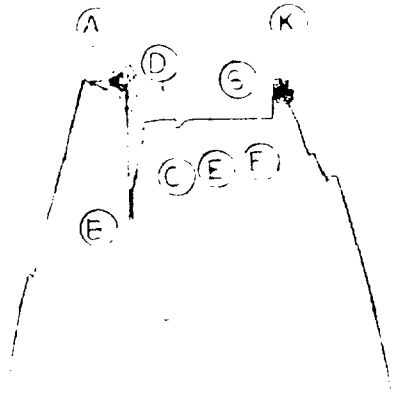
Address See Distribution

Harvey E. Yates Company

Contractor	Moranco Drilling Co.	Top Choke	1/4"
Rig No.	2	Bottom Choke	1"
Spot	--	Size Hole	7 7/8"
Sec.	34	Size Rat Hole	--
Twp.	13S	Size & Wt. D. P.	4 1/2" XH 16.60
Rng.	36E	Size Wt. Pipe	--
Field	Wildcat	I. D. of D. C.	2 1/4"
County	Lea	Length of D. C.	558 Ft.
State	New Mexico	Total Depth	10950 Ft.
Elevation	--	Interval Tested	10810-10950 Ft.
Formation	Canyon	Type of Test	Bottom Hole Conventional

Flow No. 1	30 Min.
Shut-in No. 1	60 Min.
Flow No. 2	60 Min.
Shut-in No. 2	120 Min.
Flow No. 3	-- Min.
Shut-in No. 3	-- Min.
Bottom Hole Temp.	135°F
Mud Weight	8.9
Gravity	--
Viscosity	--

Tool opened @ 10:23 A.M.



Inside recorder

PRD Make Kuster K-3
No. 22722 Cap. 6625 @ 10794'

		Press	Corrected
Initial Hydrostatic	A	4761	
Final Hydrostatic	K	4761	
Initial Flow	B	2840	
Final Initial Flow	C	3914	
Initial Shut-in	D	4225	
Second Initial Flow	E	4111	
Second Final Flow	F	4222	
Second Shut-in	G	4225	
Third Initial Flow	H	--	
Third Final Flow	I	--	
Third Shut-in	J	--	

Ticket No. 40808

Lynes Dist. Hobbs, N.M.
Our Tester Greg Capes
Witnessed By Peck Hardee

Date 3/18/83

No. Final Copies 32

Did Well Flow -- Gas No Oil No Water No

RECOVERY IN PIPE: (Test Was Reverse Circulated)

9053 Ft. Total fluid = 123.36 bbls
558 Ft. Drilling mud with LCM = 7.92 bbls.
8495 Ft. Slightly mud cut sulphur water with LCM = 155.44 bbls.

Blow Description:

1st Flow: Tool opened with strong surface blow, increased to 16 psi in 21 minutes, increased to 28 psi at the end of the flow period.

2nd Flow: Tool opened with a 4 ounce blow, increased to 12 psi in 14 minutes, decreased to 10 psi in 23 minutes, decreased to 7 psi in 47 minutes, decreased to 6 psi at the end of the flow period.

Comments: The test results indicate excellent permeability in the zone tested. The FSI stabilized immediately. The ISI stabilized in 45 minutes. No extrapolations could be performed.

LY-230

SECTION VIII, cont.

(Fresh Water Aquifers and Area Water Wells)

On April 20, 1983 Mr. Paul Kautz, a geologist of the New Mexico District I office in Hobbs, was contacted by Ray F. Nokes of Harvey E. Yates Company, in regards to fresh water aquifers in the McDonald Unit Area. Mr. Kautz had resently studied the area and concluded that the Ogallaha is prevalent in the McDonald area starting from surface, but usually is located at about 80' from surface and continued to depths of 300' in some places. The specific area of interest was in Townships 13 and 14 South of Range 36 East, Lea County, New Mexico. Mr. Kautz indicated that the thickness of the Ogallaha in this specific area was not specifically defined, but if surface and intermediate casing were set through the Ogallaha and protected by cement to surface that the fresh water aquifer would be protected. See Section VI for casing and cementing reports.

Mr. Frank Bradley with the New Mexico State Engineers Office in Roswell, New Mexico, was contacted on the same day as Mr. Kautz. He checked local records to determine if any fresh water wells were present in the immediate area of the McDonald Unit area. Please find attached a list of fresh water wells supplied by Mr. Bradley for the McDonald Area.

Prepared by:
Ray F. Nokes
Reservoir Engineer
Harvey E. Yates Co.
Roswell, New Mexico 88201

SECTION XI

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

1342-A

HALLIBURTON DIVISION LABORATORY

HALLIBURTON SERVICES
MIDLAND DIVISION
HOBBS, NEW MEXICO 88240

RECEIVED MAY 3 1983

LABORATORY WATER ANALYSIS

No. W83-502

To Harvey E. Yates

Box 1933

Roswell, New Mexico

ATTN: Mr. Ray Nokes

Date 5-3-83

Submitted by _____ Date Rec. 5-3-83

Well No. As Marked Depth _____ Formation _____

County _____ Field _____ Source Fresh Water Supplies

	Foster S.E. #1	McLish Well	
Resistivity	10.4 @ 74°F.	12.2 @ 74°F.	
Specific Gravity	1.004	1.002	
pH	7.0	7.1	
Calcium (Ca)	150	95	*MPL
Magnesium (Mg)	18	9	
Chlorides (Cl)	300	150	
Sulfates (SO_4)	650	900	
Bicarbonates (HCO_3)	170	195	
Soluble Iron (Fe)	Nil	Nil	

Remarks:

*Milligrams per liter

Respectfully submitted,

Analyst: Brewer

HALLIBURTON COMPANY

By W. L. Brewer
CHEMIST

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.

MAY 04 1983

AREA WATER WELLS

REFERENCE FILE	PRIORITY	STATUS	USE	WELL LOCATION	QUARTER
Roark, Buck	L-6228	NA	Dom	Sec. 33, T-13S, R-36E	330
Gray, Clifford etal	L-00494	LIC	IRR	Sec. 33, T-13S, R-36E	1110
Stanton, Donald	L-00494AE	PMT	IRR	Sec. 33, T-13S, R-36E	131
Stanton, Donald	L-07237	PMT	DOM	Sec. 33, T-13S, R-36E	1410
Richardson, Fred	L-08096	PMT	DOM	Sec. 33, T-13S, R-36E	300
Robinson, N. C.	L-01668	PMT	DOM	Sec. 33, T-13S, R-36E	311
Robinson, N. C.	L-00558	LIC	IRR	Sec. 33, T-13S, R-36E	3110
Richardson, Fred	L-00462	LIC	IRR	Sec. 33, T-13S, R-36E	321
Roark, Buck	L-06228	PMT	DOM	Sec. 33, T-13S, R-36E	330
Hilburn, R. B.	L-0058A	LIC	MTU	Sec. 33, T-13S, R-36E	3331
Robinson, N. C.	L-03422	PMT	DOM	Sec. 33, T-13S, R-36E	444
Hemann, Leon O.	L-00186	LIC	IRR	Sec. 34, T-13S, R-36E	1111
Wallis, T. V.	L-01483	PMT	DOM	Sec. 34, T-13S, R-36E	113
Hemann, Leon	L-07036	PMT	DOM	Sec. 34, T-13S, R-36E	1130
Hemann, Leon O.	L-00187	LIC	IRR	Sec. 34, T-13S, R-36E	2111
McClish M, et al	L-00223	LIC	IRR	Sec. 34, T-13S, R-36E	3111
Willingham R. E.	L-00292	LIC	IRR	Sec. 34, T-13S, R-36E	332
Willingham R. E.	L-01417	PMT	DOM	Sec. 34, T-13S, R-36E	332
Willingham R. E.	L-00293	LIC	IRR	Sec. 34, T-13S, R-36E	414
Shettle, Geo O	L-02759	PMT	DOM	Sec. 3, T-14S, R-36E	433
Beeman, Lewis	L-04460	PMT	DOM	Sec. 4, T-14S, R-36E	110
Williams, George J	L-03816	PMT	DOM	Sec. 4, T-14S, R-36E	111
Clevenger, J. H.	L-00256A	LIC	IRR	Sec. 4, T-14S, R-36E	111
Lambert, Allie L.	L-00256	LIC	IRR	Sec. 4, T-14S, R-36E	111
Cruz, Felix A	L-07134	PMT	DOM	Sec. 4, T-14S, R-36E	1110
Lambert Allie L.	L-002565	PMT	IRR	Sec. 4, T-14S, R-36E	1313
Foster, James A. Jr.	L-00082	LIC	IRR	Sec. 4, T-14S, R-36E	2111
Foster, James A. Jr.	L-00600	LIC	IRR	Sec. 4, T-14S, R-36E	2311
Lambert, Allie L.	L-00773	LIC	IRR	Sec. 4, T-14S, R-36E	3142
Richardson, S.A.	L-03850	PMT	DOM	Sec. 5, T-14S, R-36E	110
Richardson, Celia	L-02332	PMR	DOM	Sec. 5, T-14S, R-36E	222
McFarlane Drlg Co.	L-06246	PMT	DWD	Sec. 5, T-14S, R-36E	330
Richardson, S. A.	L-05165	PMT	DOM	Sec. 5, T-14S, R-36E	330
McFarland E. L. Inc.	L-05036	PMT	DWD	Sec. 5, T-14S, R-36E	330
Gilchrist, Howard	L-00680	LIC	IRR	Sec. 5, T-14S, R-36E	4133
Richardson, James	L-07041	PMT	DOM	Sec. 5, T-14S, R-36E	4440
Cayton, Karl	L-00056	LIC	IRR	Sec. 9, T-14S, R-36E	1111
Amerada Petro Corp	L-05378	PMT	DWD	Sec. 9, T-14S, R-36E	120
Cayton, Jack	L-02593	PMT	DOM	Sec. 9, T-14S, R-36E	121
Woodard, D. M.	L-05241	PMT	DOM	Sec. 9, T-14S, R-36E	200
Pierce, V. G.	L-01243	PMT	DOM	Sec. 9, T-14S, R-36E	200
Woodward, D. M.	L-01286	PMT	DOM	Sec. 9, T-14S, R-36E	211
Jones, Jack & Pat	L-00088	LIC	IRR	Sec. 9, T-14S, R-36E	211
Jones, Elvis	L-00507	LIC	IRR	Sec. 9, T-14S, R-36E	221
Cayton, Karl	L-03349	PMT	DOM	Sec. 10, T-14S, R-36E	110
Cayton, Karl	L-00233S2	LIC	IRR	Sec. 10, T-14S, R-36E	1111
Cayton, karl	L-00233	LIC	IRR	Sec. 10, T-14S, R-36E	1113
Cayton, Jack D.	L-00557	PMT	NOT	Sec. 10, T-14S, R-36E	210
Patman, L. D.	L-03758	PMT	DOM	Sec. 10, T-14S, R-36E	344
Patman, L. D.	L-00019	LIC	IRR	Sec. 10, T-14S, R-36E	4111
Patman, L. D.	L-00233E	LIC	IRR	Sec. 10, T-14S, R-36E	4111
King, Carl B. Drlg Co.	L-03634	PMT	DWD	Sec. 3, T-14S, R-36E	244
Molino Del Rey Inc.	L-00772	LIC	IRR	Sec. 3, T-14S, R-36E	3111
Molino Del Rey Inc.	L-00771	LIC	IRR	Sec. 3, T-14S, R-36E	3212
Molino Del Rey Inc.	L-00795	LIC	IRR	Sec. 3, T-14S, R-36E	3311
Molino Del Rey Inc.	L-00795	LIC	IRR	Sec. 3, T-14S, R-36E	400
Cruz, Tony	L-8400	NA	DOM	Sec. 4, T-14S, R-36E	111
Snyder, Henry	L-8225	NA	DOM	Sec. 4, T-14S, R-36E	300
Golleler, Jerry	L-8606	NA	DOM	Sec. 10, T-14S, R-36E	433

NOTE: Quarter Section Code:

1 - Northwest
2 - Northeast
3 - Southwest
4 - Southeast
0 - Center

AFFIDAVIT OF PUBLICATION

State of New Mexico,

County of Lea.

I, ROBERT L. SUMMERS

of the Hobbs Daily News-Sun, a daily newspaper published at Hobbs, New Mexico, do solemnly swear that the clipping attached hereto was published once a week in the regular and entire issue of said paper, and not in a supplement thereof for a period

of ONE ~~weeks.~~ day

Beginning with the issue dated JUNE 6, 19 83

and ending with the issue dated JUNE 6, 19 83

Robert L Summers
Publisher.

Sworn and subscribed to before me this 6 day of July 1983

Jane Paulowsky
Notary Public.

My Commission expires 3-24, 1987
(Seal)

This newspaper is duly qualified to publish legal notices or advertisements within the meaning of Section 3, Chapter 167, Laws of 1937, and payment of fees for said publication has been made.

OFFICIAL SEAL
Signature Jane Paulowsky
JANE PAULOWSKY
NOTARY PUBLIC - NEW MEXICO
NOTARY BOND FILED WITH SECRETARY OF STATE
My Commission Expires 3-24-87

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LEGAL NOTICE
July 6, 1983

Harvey E. Yates Company
P.O. Box 1933
Suite 300 Security National Bank Bldg.
Roswell, New Mexico 88201
Phone No. 1-505-623-6601
Contact Party:
Ray F. Nokes
Reservoir Engineer

Harvey E. Yates Company proposes to dispose of produced water into the McDonald Unit 3-Y. The McDonald Unit 3-Y is located in Unit M, 660' FSL & 660' FWL of Section 34, Township 13 South of Range 36 East, Lea County, New Mexico.

Produced water will be injected at an estimated rate of 400-600 barrels per day at not higher than 2174 psig into the Bough C at a depth of 10,860'-10,870'.

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