

OIL CONSERVATION	
SANTA FE	
FILE	
U.S.G.S.	
LAND OFFICE	
TRANSPORTER	OIL
	GAS
OPERATOR	
PROPRATION OFFICE	

NEW MEXICO OIL CONSERVATION COMMISSION
REQUEST FOR ALLOWABLE
AND
AUTHORIZATION TO TRANSPORT OIL AND NATURAL GAS

Form C-104
Supersedes Old C-104 and C-110
Effective 1-1-65

I. Operator:
Cleary Petroleum Corporation
Address:
P. O. Drawer 2358, Midland, Tx. 79701
Reason(s) for filing (Check proper box)
New Well ☐ Change in Transporter of:
Recompletion ☒ Oil ☐ Dry Gas ☐
Change in Ownership ☐ Casinghead Gas ☐ Condensate ☐
Other (Please explain)

If change of ownership give name and address of previous owner

II. DESCRIPTION OF WELL AND LEASE
Lease Name: Pubco Federal Well No.: 1 Pool Name, including Formation: Undesignated Kind of Lease: State, Federal or Fee: Federal Lease No.: NM093840
Location:
Unit Letter: L : 3300 Feet From The North Line and 660 Feet From The West
Line of Section: 2 Township: 21-S Range: 32-E, NMEM, Lea County

III. DESIGNATION OF TRANSPORTER OF OIL AND NATURAL GAS
Name of Authorized Transporter of Oil ☒ or Condensate ☐ Address if the address to which approved copy of this form is to be sent:
Permian Corporation P. O. Box 1183, Houston, Tx. 77001
Name of Authorized Transporter of Casinghead Gas ☒ or Dry Gas ☐ Address if the address to which approved copy of this form is to be sent:
Gas Company of New Mexico First International Bldg., Dallas, Tx. 75270
If well produces oil or liquids, give location of tanks. Unit: L Ser.: 2 Twp.: 21-S Rng.: 32-E Is gas directly connected? Yes When: Jan. 1974 (see below)*

If this production is commingled with that from any other lease or pool, give commingling order number

IV. COMPLETION DATA
Designate Type of Completion - (X) ☒ Oil Well ☐ Gas Well ☐ Steam Well ☐ Other ☐ Plug Back ☒ Same Res't. ☐ Diff. Res't. ☒
Date Spudded: 3-31-73 Date Compl. Ready to Prod.: 11-22-76 (Strawn Zone) Total Depth: 14,407' F.B.T.D.: 12,998 (temporary)
Elevations (GF, RKB, RT, GR, etc.): 3719 GR, 3740 KB Name of Producing Formation: Strawn Top Casing Gas Pay: 12,850' Trueing Depth: 12,781'
Performances: 12850 - 60, 12870 - 74, 12886 - 91 Depth Casing Shoe: 14,407'
TUBING, CASING, AND CEMENTING RECORD
HOLE SIZE: 26" CASING & TUBING SIZE: 20" DEPTH SET: 404' SACKS CEMENT: 700 SX
17 1/2" 13 3/8" 4000' 3475 SX
12 3/4" Liners: 9 5/8" 11243' 2000 SX
7 7/8" Tubing: 5 1/2" 14407' 725 SX
Tubing: 2 1/2" 12781'

V. TEST DATA AND REQUEST FOR ALLOWABLE
OIL WELL
Date First New Oil Run To Tanks: 12-9-76 Date of Test: 12-13-76 Producing Method (Flow, pump, gas lift, etc.): Flowing
Length of Test: 24 hr. Tubing Pressure: 480 Casing Pressure: Packer Choke Size: 10/64"
Actual Prod. During Test: 30 Oil - Bbls.: 30 Water - Bbls.: 0 Gas - MCF: 72

GAS WELL
Actual Prod. Test - MCF/D: Length of Test: Bbls. Condensate/MCF: Gravity of Condensate:
Testing Method (pilot, back prod): Tubing Pressure (Shut-in): Casing Pressure (Shut-in): Choke Size:

VI. CERTIFICATE OF COMPLIANCE
I hereby certify that the rules and regulations of the Oil Conservation Commission have been complied with and that the information given above is true and complete to the best of my knowledge and belief.
(Signature)
Assistant District Manager
(Title)
12-14-76
(Date)
*Morrow facilities to be used while temporarily plugged off.
OIL CONSERVATION COMMISSION
APPROVED _____, 19____
BY _____
TITLE _____
This form is to be filed in compliance with RULE 1104.
If this is a request for allowable for a newly drilled or deepened well, this form must be accompanied by a tabulation of the deviation tests taken on the well in accordance with RULE 111.
All sections of this form must be filled out completely for allowable on new and recompleted wells.
Fill out only Sections I, II, III, and VI for changes of owner, well name or number, or transporter or other such change of condition.
Separate Forms C-104 must be filed for each pool in multiply completed wells.

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 *

1a. TYPE OF WELL:		OIL WELL ☒	GAS WELL ☐	DRY ☐	Other _____
b. TYPE OF COMPLETION:		temp.			
NEW WELL ☐		WORK OVER ☐	DEEP-EN ☐	PLUG BACK ☒	DIFF. RESVR. ☐
2. NAME OF OPERATOR Cleary Petroleum Corporation					
3. ADDRESS OF OPERATOR P. O. Drawer 2358 Midland, Texas 79701					
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)* At surface 3300' FNL & 660' FWL At top prod. interval reported below At total depth					
14. PERMIT NO.		DATE ISSUED		12. COUNTY OR PARISH	
Form 9-331 approved		10-8-76		Lea	
15. DATE SPOOLED		16. DATE T.D. REACHED		17. DATE COMPL. (Ready to prod.)	
3-31-73		6-5-73		11-22-76 (Strawn zone)	
18. ELEVATIONS (DF, RSP, RT, GR, ETC.)*		19. ELEV. CASINGHEAD		20. TOTAL DEPTH, MD & TVD	
3719 GR, 3740 KB		3719'		14407	
21. PLUG, BACK T.D., MD & TVD		22. IF MULTIPLE COMPL., HOW MANY*		23. INTERVALS DRILLED BY	
12998 (temporary)		--		10-14407'	
24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)*				25. WAS DIRECTIONAL SURVEY MADE	
12850-12891 Strawn				No	
26. TYPE ELECTRIC AND OTHER LOGS RUN Compensated Acoustic Velocity Gamma Ray Neutron Guard				27. WAS WELL CORSED No	
28. CASING RECORD (Report all strings set in well)					
CASING SIZE		WEIGHT, LB./FT.		DEPTH SET (MD)	
20"		94#		404'	
13 3/8"		54.5, 61 & 68#		4000'	
HOLE SIZE		CEMENTING RECORD		AMOUNT PULLED	
26"		700 sx.		--	
17 1/2"		3475 sx.		--	
29. LINER RECORD					
SIZE		TOP (MD)		BOTTOM (MD)	
9 5/8"		3734		11243	
5 1/2"		10968		14407	
SACKS CEMENT*		SCREEN (MD)		30. TUBING RECORD	
2000		--		SIZE	
725		--		2 7/8"	
--		--		DEPTH SET (MD)	
--		--		12781	
--		--		PACKER SET (MD)	
--		--		12781	
31. PERFORATION RECORD (Interval, size and number)					
12850-60		.33"		20 holes	
12870-74		.33"		8 holes	
12885-91		.33"		10 holes	
32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.					
DEPTH INTERVAL (MD)		AMOUNT AND KIND OF MATERIAL USED			
12850-12891		Acidized w/8000 gals. of 20% CRA acid w/600# of Benzoic Acid flakes.			
12850-12891		Fractured w/25,000 gals. of KCL			
33. PRODUCTION					
DATE FIRST PRODUCTION		PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump)		WELL STATUS (Producing or shut-in)	
12-9-76		Flowing		Producing	
DATE OF TEST		HOURS TESTED		CHOKE SIZE	
12-13-76		24		10/64	
PROD'N. FOR TEST PERIOD		OIL—BBL.		GAS—MCF.	
--		30		72	
WATER—BBL.		GAS—MCF.		WATER—BBL.	
0		72		0	
GAS-OIL RATIO		OIL GRAVITY-API (CORR.)		--	
2400		49		--	
34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.)					
Sold (temporarily using Morrow facilities)					
TEST WITNESSED BY					
Doyle Conway					
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		TITLE		DATE	
Assistant District Manager		12-14-76		--	

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

INSTRUCTIONS

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 33.

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 local office for specific instructions.

Item 18: 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 33. 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: "Sacks Cement": 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 POROUS ZONES:

SHOW ALL IMPORTANT ZONES OF POROSITY AND CONTENTS THEREOF, CORED INTERVALS, AND ALL DRILL-STEM TESTS, INCLUDING DEPTH INTERVAL, TESTING, CUSHION USED, TIME, AQUIFERS, FLOWING AND SHUT IN PRESSURES, AND REACTIVITIES

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.	NAME	GEOLOGIC MARKERS	
					MEAS. DEPTH	TRUE VERT. DEPTH
Strawn	12850	12891	Lime	Anhydrite T/Salt T/Yates T/Capitan Rf. T/Delaware Mt. T/Bone Spring T/Wolfcamp T/Strawn T/Atoka T/Morrow	1430 1575 3410 3600 4550 8445 11695 12675 12935 13535	

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
COMMISSION OF FUEL-DRILLING

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN TRIPLICATE
(Other instructions
verse side)

Form approved.
Budget Bureau No. 42-R1424.

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals.)

1. OIL WELL ☐ GAS WELL ☒ OTHER		5. LEASE DESIGNATION AND SERIAL NO. NM-093840
2. NAME OF OPERATOR Cleary Petroleum Corporation		6. IF INDIAN, ALLOTTEE OR TRIBE NAME
3. ADDRESS OF OPERATOR P. O. Drawer 2358, Midland, Texas 79701		7. UNIT AGREEMENT NAME
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface 3300' FNL & 660' FWL		8. FARM OR LEASE NAME Pubco Federal
14. PERMIT NO. Letter of 3-27-73		9. WELL NO. 1
15. ELEVATIONS (Show whether DF, RT, GR, etc.) 3719' GR		10. FIELD AND POOL, OR WILDCAT Salt Lake, South (Morrow)
		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Sec. 2, T-21-S, R-32-E
		12. COUNTY OR PARISH Lea
		13. STATE N. M.

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

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF ☐	PULL OR ALTER CASING ☐	WATER SHUT-OFF ☐	REPAIRING WELL ☐
FRACTURE TREAT ☐	MULTIPLE COMPLETE ☐	FRACTURE TREATMENT ☒	ALTERING CASING ☐
SHEED OR ACIDIZE ☐	ABANDON* ☐	SHOOTING OR ACIDIZING ☐	ABANDONMENT* ☐
REPAIR WELL ☐	CHANGE PLANS ☐	(Other) ☐	

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

17. HAS BEEN 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.)*

11-22-76 Fractured Strawn down 2 7/8" tubing w/25,000 gals. of 2% KCL Versafrac & 22,000# of 20/40 sand in two stages. Pumped 2000 gals. pre-pad, 2000 gals. pad & 10,000 gals w/11,750# of sand in first stage. Followed 2nd stage w/200# of benzoic acid flakes and 20 ball sealers, 4000 gals. of pad, 9000 gals w/10,250# of sand. Average treating press. 8000 psi @ 8 1/2 BPM (including CO₂). Flushed w/3000 gals. @ 8600 psi & 9 BPM. Used 1500 SCF (standard cu. ft.) of CO₂ per bbl of total fluid.

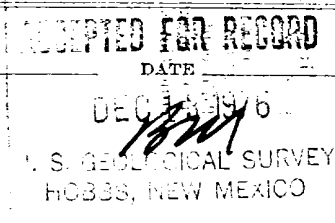
18. I hereby certify that the foregoing is true and correct

SIGNED _____ TITLE Assistant District Manager DATE 12-10-76

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____

CONDITIONS OF APPROVAL, IF ANY:



*See Instructions on Reverse Side

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN TRIPLICATE
(Other instructions on
reverse side)

Form approved.
Budget Bureau No. 42-R1424.

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.
Use "APPLICATION FOR PERMIT--" for such proposals.)

1. ☐ OIL WELL ☐ GAS WELL ☒ OTHER	7. UNIT AGREEMENT NAME
2. NAME OF OPERATOR Cleary Petroleum Corporation	8. FARM OR LEASE NAME Pubco Federal
3. ADDRESS OF OPERATOR P. O. Drawer 2358, Midland, Tx. 79701	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 3300' FNL & 660' FWL	10. FIELD AND POOL, OR WILDCAT Salt Lake, South (Morrow)
11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Sec. 2, T-21-S, R-32-E	12. COUNTY OR PARISH Lea
13. STATE N. M.	
14. PERMIT NO. Letter of 3-27-73	15. ELEVATIONS (Show whether DF, RT, GR, etc.) 3719 GR

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	☐	ABANDONMENT*	☐
(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.) *

Fracture Strawn formation thru perforations 12,850 - 12,860', 12,870 - 12,874' & 12,886 - 12,891' via 2 7/8" tubing and RTTS Packer at 8 to 10 BPM using 25,000 gallons of 2% KCL VERSAFRAC carrying 22,000 pounds of 20-40 mesh sand. Treatment is to contain approximately 1,500 scf of CO₂ per barrel and is to be staged and diverted using TLC-80 (benzoic acid) and ball sealers.

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

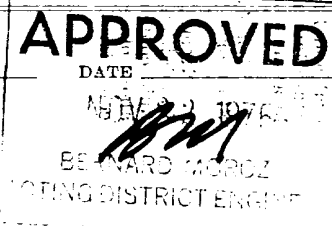
SIGNED _____

TITLE Assistant District Manager DATE 11-19-76

(This space for Federal or State office use)

APPROVED BY _____
CONDITIONS OF APPROVAL, IF ANY:

TITLE _____



*See Instructions on Reverse Side

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEYSUBMIT IN TRIPLE
(Other instructions
reverse side)Form approved.
Budget Bureau No. 42-P1424.

5. LEASE DESIGNATION AND SERIAL NO.

NM-093840

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Pubco Federal

9. WELL NO.

1

10. FIELD AND POOL, OR WILDCAT

Salt Lake South (Morrow)

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

Sec. 2, T-21-S, R-32-11

12. COUNTY OR PARISH

Lea

N. M.

SUNDRY NOTICES AND REPORTS ON WELLS
(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.
Use "APPLICATION FOR PERMIT" for such proposals.)1. ☐ OIL
WELL ☐ GAS
WELL ☒ OTHER

2. NAME OF OPERATOR

Cleary Petroleum Corporation (formerly Teal Petroleum Co.)

3. ADDRESS OF OPERATOR

P. O. Drawer 2358, Midland, Texas 79701

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

3300' FNL & 660' FWL

14. PERMIT NO.

Letter of 3-27-73

15. ELEVATION (Show whether DE, RT, GL, etc.)

3719' GR

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*

(NOTE: Report results of multiple completion on Well
Completion or Recompletion Report and Log form.)17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting and
ending of 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.)

10-5-76 Set Plug in Otis "N" nipple @ 13,550'.

10-6-76 Ran 2 7/8", N-80, 6.5#, 8R, EUE tubing to 12,891'.

10-7-76 Spotted 250 gal. of 15% NE HCL acid @12891'. Pulled tbg. up to
12484. Set pkr. Nippled up tree. Perforated 12850 - 60', 12870 -
74', & 12886 - 91' w/2 shots/ft. (total of 38 holes), (1 9/16" Omega
thru tubing gun-centralized). Displaced the 250 gal. of acid into
the formation. Overdisplaced w/3 bbls. of brine water. Pumped in
fm. @ 2 BPM @ 3400 psi. ISIP 3000, 5 min., 10 min., & 15 min.
SIP 3000 psi. Bled back six bbls. Shut-in overnight. 14 hr. SITP
1600 psi.

10-11-76 Swabbed well down to 10000'.

10-12-76 Acidized w/8000 gal. 20% CRA acid w/600# of benzoic acid flakes.
Avg. press. 5640 @ 6 BPM. Max press. 6200, ISIP 4700, 5 min.
4500, 15 min. 4500. 2 hr. 4400.

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

SIGNED *Douglas W. Rice*

TITLE Assistant District Manager DATE 10-29-76

(This space for Federal or State office use)

APPROVED BY

TITLE

CONDITIONS OF APPROVAL, IF ANY:

ACCEPTED FOR RECORD

OCT 28 1976

U. S. GEOLOGICAL SURVEY
HOBBS, NEW MEXICO

*See Instructions on Reverse Side