

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEYSUBMIT IN DUPLICATE TO
NM OIL CONS. COMMISSION
(See other in-
structions on
reverse side)
Artesia, NM 88210Form approved.
Budget Bureau No. 42-R355.5.C/SF
WELL COMPLETION OR RECOMPLETION REPORT AND LOG *1a. TYPE OF WELL: OIL WELL ☐ GAS WELL ☒ DRY ☐ Other _____

b. TYPE OF COMPLETION:

NEW WELL ☒ WORK OVER ☐ DEEP-EN ☐ PLUG BACK ☐ DIFF. RESVR. ☐ Other _____

2. NAME OF OPERATOR

Estoril Producing Corporation /

3. ADDRESS OF OPERATOR

11th Floor, Vaughn Bldg., Midland, TX 79701

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

At surface Sec. 33, T5S, R24E, 1980' FNL & 660' FWL

At top prod. interval reported below 3679'

At total depth 4374'

14. PERMIT NO.

DATE ISSUED

10-28-81

15. DATE SPUDDED

16. DATE T.D. REACHED

17. DATE COMPL. (Ready to prod.)

18. ELEVATIONS (DF, RKB, RT, GR, ETC.)*

19. ELEV. CASINGHEAD

11-6-81

11-17-81

3-22-82

4102' GL

4102'

20. TOTAL DEPTH, MD & TVD

4374'

21. PLUG, BACK T.D., MD & TVD

3996'

22. IF MULTIPLE COMPL.,
HOW MANY*23. INTERVALS
DRILLED BY

ROTARY TOOLS

CABLE TOOLS

X

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)*

3679-3948' Abo

25. WAS DIRECTIONAL
SURVEY MADE

Yes

26. TYPE ELECTRIC AND OTHER LOGS RUN

GR-FDC-CDNL, DL

27. WAS WELL CORED

No

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

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	COUNT PULLED
10 3/4"	32.75#	874'	14 3/4"	730 SX	0
4 1/2"	10.5#	4038'	7 7/8"	1005 SX	0
4 1/2"	10.5#	3998'	7 7/8"	900 SX	0

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
No liner.						None	3660'

31. PERFORATION RECORD (Interval, size and number)

3923' to 3948', .50 hole, 8 shots:
3923', 25', 27', 29', 31', 33', 46', 48'.
3679' to 3759', .50 hole, 6 shots:
3679', 81', 83', 85', 3758', 59'.

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

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
3759' to 3679'	1500 g. 7 1/2% HCL
3948' to 3923'	7000 g. gel, 30% CO ₂ pad, 20/40 sand, 5000 g. 30% CO ₂ , 20/40 sd., 6000 g. 30% CO ₂ , 4# 20/40 sd, 5000 g. 30% CO ₂ .

33.* PRODUCTION 3# 10/20 sd, 4000 g 30% CO₂, 4# 10/20 sand.

DATE FIRST PRODUCTION 3-13-82 PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump) Flowing WELL STATUS (Producing or shut-in) Shut-in

DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO
3-30-82	4 hrs.	4375	→	0	3202	0	---
FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-API (CORR.)	
529	555	→	0	3202	0	---	

34. DISPOSITION OF WELL (Set, abandoned, etc.)

Vented during test. To be sold to Transwestern Pipeline Co.

TEST WITNESSED BY

Fred Taylor

35. LIST OF ATTACHMENTS

Multipoint and One Point Back Pressure Test for Gas Well, Gas Analysis, Chronological Pressure Data, BHP Records, Inclination Survey, Daily Reports, DN-GR, DL Logs.

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records

SIGNED

U.S. GEOLOGICAL SURVEY
ROSWELL, NEW MEX.

TITLE

Production Clerk

DATE

4-13-82

*(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 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 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.

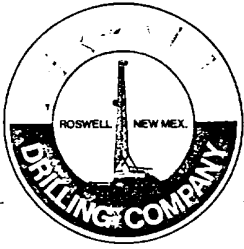
Items 22 and 24: If this well is completed for separate production from more than one interval zone (multiple completion), so state in item 22, and in item 24 show the producing interval, or intervals, top(s), bottom(s) and name(s) (if any) for only the interval reported in item 33. Submit a separate 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 POROSITY ZONES: SHOW ALL IMPORTANT ZONES OF POROSITY AND CONTENTS THEREOF; CORED INTERVALS; AND ALL DRILL-STEM TESTS, INCLUDING DEPTH INTERVAL TESTED, CUSHION USED, TIME TOOL OPEN, FLOWING AND SHUT-IN PRESSURES, AND RECOVERIES			38. GEOLOGIC MARKERS			
FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.	NAME	MEAS. DEPTH	TRUE VERT. DEPTH
San Andres	980	1122	Not tested. Avg. poros. 10%.	San Andres	560	
Glorieta	1450	1482	Not tested. Avg. poros. 15%.	Glorieta	1446	
Glorieta	1520	1754	Not tested. Avg. poros. 12%.	Abo	3628	
Glorieta	2560	2814	Not tested. Avg. poros. 12%.	Base Abo	4368	
Glorieta	3200	3264	Not tested. Avg. poros. 10%.			
Abo	3676	3690	Not tested. Flowing gas, avg. poros. 8%.			
Abo	3750	3765	Not tested. Flowing gas, avg. poros. 10%.			
Abo	3918	3936	Not tested. Flowing gas, avg. poros. 12%.			
Abo	4030	4048	Not tested. Avg. poros. 11%.			

TEX -MEX DRILLING COMPANY



P.O. BOX 3759
ABILENE, TEXAS 79604
PHONE 915/677-9121
Myrle Greathouse

BOX 1300
CLOVIS STAR ROUTE
ROSWELL, N. MEX. 88201
PHONE 505-622-0022
Monte Cowser

RECEIVED

APR 21 1982

April 14, 1982

O. C. D.
ARTESIA, OFFICE

Esteroil Production Company
1120 Vaughn Bld.
Midland, Texas 79701

RE: Sheehan #3
Chaves County, New Mexico

<u>Deviation</u>	<u>Test</u>
510	1
890	1
1480	1 1/4
2000	1
2570	1
3183	1
3610	3/4
4046	3/4
4375	1

TEX-MEX DRILLING COMPANY

by Monte Cowser
Monte Cowser, Vice President

Subscribed and sworn to before me this 14 day of April 19 82

James Young Chaves, New Mexico.
Notary Public County

My Commission Expires 2/22, 19 86.

RECEIVED

APR 17 1982

**O.C.D.
HOBBS OFFICE**

SHEEHAN FEDERAL #3

11-2-81 Road & location complete w/ Allstate Const. CO., will MI Mex-Tex drlg. rig last of week.

11-3-81 WO rig.

11-6-81 MI. rotary rig.

11-7-81 154', redbed, drlg. w/wtr., spud 14-1/4" hole, 11 p.m., 11-6-81., RPM 60, pp 500#, SPM 59, All WOB, Bit #1, Security S-88, 3-15's, in @ 40', 8 hrs. on bit, 8 hrs. drl.

11-8-81 830', (676), sm & sh, MW 9.1, vis 31, RPM 80, pp 700#, SPM 58, WOB 35m#, 22 hrs. drlg. 1 hr. rotary rep., 1/2 hr. rep. pmp., 1/2 hr. SR, Bit #1, 588'/14 3/4 hr., 790'/30hr.

11-9-81 890', (60), lm & sd, MW 9.9, vis 30, WL no control, pH 7, all WOB, 1° @ 890', 3 1/4 hr. drlg., 3 hrs. trip., 4 1/4 hr. RU csg., 1 1/2 hr. cmt., 10 hrs. WOC, 2 hrs. drlg. cmt, ran 23 jts. 878', 10-3/4", 32.75#, ST&C csg., set @ 874', cmtd. w/ 430 sx "C", 4% gel + 1/4# Celloseal per sx, followed by 300 sx "C" + 1% CaCl, full circ thru out job circ., 75 sx cmt to surf., plug on btm. 5:50 p.m., 11-8-81.

11-10-81 1480', (590), drlg. lm., MW 9.5, pH 7, 1 1/4° @ 1389', RPM 60-70, pp 1000#, SPM 45, all WOB, Bit #2, 9-7/8" S-86-F, in @ 890', 590'/21 hrs., 21 hrs. drlg., 1/2 hr. SR, 2 hrs. drlg. cmt., 1/2 hr. svy.

11-11-81 Drlg. @ 2089', (609), lm & sh, MW 9.5, vis 29, pH 7, RPM 55, pp 1000#, SPM 54, WOB 35M 1° @ 2071', 17 3/4 hr. drlg., 4 hrs. trip, 1 hr. circ., 1/2 hr. serv rig, 3/4 hr. rig, rep., Bit #2 in @ 890', out @ 1616', 716'/24 hrs., Bit #3, 7-7/8" J33 w/3-12's, in @ 1606'.

11-12-81 3183', lm & sh, (894), dlr., MW 10.1, vis 36, 18 WL, pH 9.5, 1° @ 2684', Bit #3, Hughes Tool, 7-7/8", J-33, 2-12's & 1-13, in @ 160 1577'/38 hrs., Pmp #1, 1000# pp, 48 SPM, 23 1/4 hr. drlg., 1/4 hr. RS, 1/2 hr. svy.

11-13-81 3430', lm & sh, (247), drlg., MW 9.8, vis 2 WL no control, 8 pH, 1° @ 3247', Bit #3, Hughes Tool, 7-7/8", J33, w/2-12's & 1-11, 1824'/47 hrs., 35m# WOB, 55 RPM, 9 hrs. drl 6 hrs. trip, 9 hrs. WO flange & NU.

11-14-81 3791', (361), 17 1/2 hr. drlg., 10 MW, vis 40, WL 10, 8.5 pH, 3% oil, 3/4° @ 3616', Bit #3 Hughes tool, 7-7/8" J-33, w/2-12's & 1-13, 2185'/64 1/2 hr., 17 1/2 hr drlg., 2 hrs, attempt to unplug bit, 4 1/2 hr. tri

11-15-81 Drlg. @ 4046', Sd & sh, (255), MW 9.8, vis WL 10, pH 8, 3% oil, Bit #3, 2440'/85 1/2 hr., 21 hrs. drlg., 2 3/4 hr. trip., 1/4 hr SR.

11-16-81 Dlr. @ 4347', sd & sh, (301), 17 1/4 hr., MW 10.3, vis 39, WL 15, pH 8.5, 2 1/2% oil, 3-1/4° @ 4246', Bit #3, 2741'/102 3/4 hr., 17 1/4 hr. drlg., 6 1/2 hr. trip for crack in collar, 1/4 hr. SR.

SHEEHAN FEDERAL #3

11-17-81

Dlrg. @ 4374', (37), RD Dresser Atlas, MW
10.3, vis 40, WL 10, pH 8.5, 3% oil, 1°@
4374', Bit #3 in @ 1606' out @ 4374', 2768'
104 3/4 hr., 35m# WOB, 55 RPM, 2 hrs. dlrg.
9 hrs. trip, 3 hrs. circ., 10 hrs. log, GR-
FDC-CD/L fr. 4379-1600', ran GR & DL fr.
4379'-1600', GR bk to SURFACE.

11-18-81

4374' TD, PBTD 3995', P.O. RD, 2 hrs. TIH
w/bit, 4 hrs. WOO, 5 1/2 hr. TOH, LD DP &
DC, 3 1/2 hr. run 103 jts. 4-1/2", 10.50#
K-55 csg. w/collar & float shoe=4038', set
@ 4038', 1 hr. circ. for cmt., 1 1/2 hr.
cmt. w/805sx Lite, 10# salt, 1/4# Celloseal
200sx 50/50 POZ, 2% gel, 6# salt, 5 1/2 h:
set slips & ND & cut csg., 1 hr. RD, rel.
rig 6 a.m., 11-18-81 N.M. time.

Status of Well: WOCU.

11-20-81

Tried to run GR & CL, hit cmt. @ 3900',
have to be drld. out, unit will be there
after Thanksgiving.

11-21-81 thru 11-23-81

WOCU. Will probably be after Thanksgiving
before comp. unit is MI.

11-26-81 thru 11-30-81

WOCU.

12-1-81

WOCU.

12-2-81

WOCU.

12-3-81

WOCU.

12-4-81

WOCU.

STATUS OF WELL: WOCU.



ESTORIL PRODUCING CORPORATION

PRODUCERS OF OIL & GAS

ELEVENTH FLOOR, VAUGHN BUILDING MIDLAND, TEXAS 79701 (A. C. 915) 683-6101

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COMPLETION:

CHAVES ABO PROSPECT
CHAVES CO., NM

SHEEHAN FED #3 ---

3-10-82

RU to drl out.

3-11-82

RU, PU bit & tbg., tag cmt. @ 3924',
drl. cmt. to 3975', TOH w/bit.

3-12-82

RU Geo Van, ran GR-CLL fr. 3969-2450',
perf. 8 shots w/steel strip gun w/.50 hole
size, perf. 3923, 25, 27, 29, 31, 33,
46, 48, RD Geo Van, PU Bkr model R, TIH
@ 3946', displace hole w/2 $\frac{3}{4}$ KCL, & spot
2 bbls. acid over perfs., pull 25 stands
& set Pkr @ 3824', broke formation @
2400#, acidize w/ 1500 g. 7 $\frac{1}{2}$ HCL,
20 ball sealers, 6 BPM rate @ 2550#,
ISDP 800#, 5" 500#, 10" 400#, RU to
swab, FL @ surf., made 7 runs, FL 3600',
26 BW.

3-13-82

Well opened on $\frac{3}{4}$ " ch., 0#, 6' flare,
FL 2300' FS, md 3 runs, tbg. dry, $\frac{1}{2}$ hr.
shut well in, 0-160#, still increasing,
open 15" on $\frac{1}{8}$ " ch., 170#, 60 MCF,
30" on $\frac{1}{4}$ " Ch., 30#, 60 MCF, sw tbg.
dry, shut well in.

3-14-82

TP 900#, CP 0#, FL 3700', ran sw every hr.
for 4 hrs., put on $\frac{3}{4}$ " ch., 1st hr. 180#,
2nd hr. 210#, 3 rd hr. 230#, 80 MCFPD.

3-15-82

This AM TP 950#, Set 35" on $\frac{1}{2}$ " ch.,
bled dn ot 175#, flwg. @ 175# on an
 $\frac{8}{64}$ " ch., will start perfs. tomorrow.

3-16-82

Flowed on $\frac{8}{64}$ " choke, 175#. Opened.
 $\frac{1}{4}$ swab runs. Swbd. back acid.

3-17-82

SIP 900# on lower perfs., loaded hole
w/brine, rel. Pkr. & TOH, ran jet csg.,
perf. guns, perf. fr. 3679, 81, 83, 85,
3758, 59, Ran RBP & Pkr. IH, set RBP @
3760', set Pkr. @ 3660', ran sw IH, swbd
LW, show of gas 4th run, sw dry on 5th
run, wait 1 hr., swbd, no fluid, well
showing good show of gas, SI.

3-18-82

12 hrs. SIP on perf. fr. 3679-59' 875#,
acidize fr. 3659-79' w/1500 g. 7 $\frac{1}{2}$ HCL,
rate - 5 BPM @ 2000#, ISDP 700#,
5" 450#, 10" 250#, 15" 150#, stabilized,
connected swab, 3rd trip show of gas,
5th trip flwg 20 MCF, swbd hole dry,
1 hr. between runs, swab bk small amt.
of acid, flwg. 40 MCF, shut well in.

3-19-82

16 hr. SIP 1000# on upper perfs.,
loaded tbg. & back side w/brine, rel.
Pkr., retrieve RBP, TOH, trip tbg. IH
& set SN @ 3760', NU well head, swab
LW off well, SI., prep. to frac @ 8 AM
N.M. Time.



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ELEVENTH FLOOR, VAUGHN BUILDING MIDLAND, TEXAS 79701 (A. C. 915) 683-6101

COMPLETION:

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SHEEHAN FED #3

3-20-82

Frac'd - TP Min. 4200#, Max. 3300#, Avg. 3100#, Inj. rate 3 BPM, Flush rate 30 BPM AIR 28 BPM, ISDP 1100#, FSIP 825# in 15", flwd bk 2 hrs. after SI.

Frac Job:

4000 g. gel, 30 % CO₂ was pad. 20/40 Sd.
3000 g. gel, 30% CO₂.
33,000 g. 30% CO₂, 20/40 Sd.
5000 g. 30% CO₂, 20/40 Sd.
6000 g. 30% CO₂, 4# 20/40 Sd.
5000 g. 30% CO₂, 3# 10/20 Sd.
4000 g. 30% CO₂, 4# 10/20 Sd.
Flwd. w/2% KCL wtr. & CO₂, SI 2 hrs. to recover time on 1/2" ch.

3-21-82

Cleaned up til 9 PM Sat. night, avg. gas 400 MCF, 150# on 22/64" ch.

3-22-82

Shut well in for press. build-up.

3-23-82

SITP 975#, open on 32/64" ch., flwd all day, small amt. of LW, FTP 175# on 32/64" ch., still cleaning up LW.

3-24-82

SITP 975#, flwd. bk to pit, 160# on 32/64" ch.

3-25-82

TP 900#, CP 825#, FTP 170#, 1/2" ch., 459 cu. ft. gas.

3-26-82

SITP 1000#, testing Tuesday.

3-27-82

SI till test Tuesday.

3-30-82

SI. til test.

3-31-82

SI. WO test.

4-1-82

Swbd. 1 BF/hr. No gas.

4-7-82

SD. WO test.

4 Point Test:

SITP 935#, BHP 1039#.

<u># of Flow</u>	<u>Ch.</u>	<u>TP</u>	<u>BHP</u>	<u>RATE</u>	<u>TIME</u>
1st Flow	1/8"	912#	1023#	315.21	1 hr.
2nd Flow	1/4"	819#	931#	1154.07	1 hr.
3rd Flow	5/16"	721#	855#	1555.85	1 hr.
4th Flow	7/16"	529#	658#	2366.63	1 hr.

CAOF 3.202 MCF.

*FINAL REPORT.