N. M. OIL CONS. COMMISSION
P. O. BOX 1980
HOBBS, NEW MEXICO 88240

Form 9-331
Dec. 1973

Form Approved.
Budget Bureau No. 42-R1424

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use Form 9-331-C for such proposals.)

1. oil well ☒ gas well ☐ other

2. NAME OF OPERATOR
CONOCO INC.

3. ADDRESS OF OPERATOR
P. O. Box 460, Hobbs, N.M. 88240

4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)
AT SURFACE: 660' FNL & 660' FEL
AT TOP PROD. INTERVAL: —
AT TOTAL DEPTH: —

5. LEASE
LC-029509 B

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME
Baish B

9. WELL NO.
4

10. FIELD OR WILDCAT NAME
Maljamar (G/SA)

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
Section 22, T-17S, R-32E

12. COUNTY OR PARISH
Lea

13. STATE
NM

14. API NO.

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

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

REQUEST FOR APPROVAL TO:		SUBSEQUENT REPORT OF:
TEST WATER SHUT-OFF	☐	☐
FRACTURE TREAT	☒	☐
SHOOT OR ACIDIZE	☒	☐
REPAIR WELL	☐	☐
PULL OR ALTER CASING	☐	☐
MULTIPLE COMPLETE	☐	☐
CHANGE ZONES	☐	☐
ABANDON*	☐	☐
(other)		

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

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

See attached procedure.

RECEIVED
DEC 5 10 20 AM '83
BUR. OF LAND MGMT
ROSWELL DISTRICT

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

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

SIGNED David A. Smyle for TITLE Administrative Supervisor DATE Dec. 1, 1983

APPROVED
(This space for Federal or State office use)

APPROVED BY (Orig. Sgd.) PETER W. CHESTER TITLE _____ DATE _____
CONDITIONS OF APPROVAL, IF ANY:

DEC 9 1983

*See Instructions on Reverse Side

BAISH B NO. 4
RECOMPLETE AND STIMULATE

WELL DATA:

LOCATION: 660' FNL & 660' FEL, Section 22, T-17-S, R-32-E, Lea County, NM

TD: 4109' ELEVATION; 4016' ZERO: 11' AGL

T.O.C.: 1200' By Temperature Survey

CASING: Surface - 242' - 8-5/8", 28# H-40, 24# J-55, 32# J-55, 36# J-55 w/135 sxs
Production - 4108' - 4-1/2" 11.6# J-55 csg w/1200 sxs.

Production - burst	5350 psi	collapse 4960 psi
@ 80%	4280 psi	collapse 3968 psi

RECOMMENDED PROCEDURE:

1. Rig up and if necessary, kill well w/2% KCL TFW w/1 gal Adomall per 1000 gals.

2. POOH w/rods and pump.
   A. Install BOP.
   B. Tag for fill.
   C. POOH w/production tbg. Strap tbg out.

3. Clean out to T.D. of 4109'.
   A. GIH w/3-3/4" bit, 4-1/2" scraper, D.C.'s and 2-7/8" workstring.
   B. C.O. to T.D. of 4109'.

4. Spot 29 gallons 15% NE-FE-HCl from 3894' - 3850'. POOH w/workstring, D.C.'s, csg scraper and 3-3/4" bit.

5. Rig up service company perforating unit. Tag bottom and correlate using previous PGAC Depth Control Log.

6. Selectively perforate the following intervals with 2 JSPF (see perforating detail below) as follows:

Depth	FT.	# Shots
3852'	1	2
3861'	1	2
3866'	1	2
3868'	1	2
3872'	1	2
3878'	1	2
3882'	1	2
3887'	1	2
	8	16

   A. POOH and rig down perforating unit.

NOTE: Shot depths have been corrected to Depth Control Log.

PERFORATING DETAIL

Minimum Acceptable Valves
3" Hollow Steel Carrier Gun
EHD 0.38"
Total Target
Penetration 10"
Phasing 180° or 120°

7. Prepare wellbore for stimulation.
   A. GIH w/4-1/2" 11.6# RBP, 4-1/2" 11.6# treating packer and workstring. Test tbg to 6000 psi above slips.
   B. Set RBP @ 3950'/ Get off of RBP set treating packer and test RBP through tbg to 2000 psi.
   C. Release treating packer and set treating packer @ 3835'.

   NOTE: You cannot pressure up on backside due to perforations up hole. Use a treating packer that will hold 4000 psi pressure differential.

8. Treat the perforations from 3857' - 3887' w/1344 gallons of 15% NE-FE-HCl inhibited for 24 hrs @ 90°F and 32 ball sealers at 4 BPM, see Chart No. 1 for maximum surface treating pressure as follows:
   A. Pump 500 gals acid down tbg.
   B. Pump 844 gals acid releasing 2 ball sealers every 53 gallons and attempt to ball out.
   C. Flush with 23 bbls TFW w/2% KCL acid 1:1000 Adomall. S.I. for 60 minutes.
   D. Unseat packer, run through perfs to 3895' to knock off ball sealers and reset the packer @ 3835'.

9. Sand frac the 6th Sands (3850 - 3894) through 2-7/8" frac string as follows:

   Required Rate: 16 BPM
   Maximum Surface Treating Pressure: Sec. Presure/Rate Chart II
   Estimated Surface Treating Pressure: 3448 psi

   A. Frac down 2-7/8" tbg @ 16 BPM as follows: See Pad Fluid Detail Below.

	Total Fluid Gallons
1. Pump 840 gals (20 bbls) 40# gelled fluid pad.	0-840
2. Pump 300 gals (7 bbls) 40# gelled fluid w/1 lb/gal 20-40 sand.	840-1140
3. Pump 700 gals (17 bbls) 40# gelled fluid w/2 lb/gal 20-40 sand.	1140-1840
4. Pump 5000 gals (110 bbls) 40# gelled fluid w/3 lb/gal 20-40 sand.	1840-6840

PAD FLUID DETAIL

40# Gelled Fluid
552 Gallons Fresh Water
92 lbs Potassium Chloride
22 lbs Hydroxypropyl Guar
22 lbs Adomite Aqua 40 lbs/1000 Gallons
0.06 gals BE-3 or Equivalent
5.5 Gallons CW-1 or Equivalent
0.552 gallons Halliburton Lo-Surf 259 or Equivalent
0.1656 lbs GBW-3 or Equivalent

FRAC FLUID DETAIL

4820 Gallons Fresh Water
803 lbs Potassium Chloride
193 lbs Hydroxypropyl Guar
120.5 lbs Adomite Aqua (25 lbs/1000 gallons)
.4820 Gallons BE-3 or Equivalent
4.820 Gallons CW-1 or Equivalent
40.820 Gallons Halliburton Lo-Surf or Equivalent
1.466 lbs GBW-3 or Equivalent

FLUSH FLUID DETAIL

40# Gelled Fluid
552 Gallons Fresh Water
92 lbs Potassium Chloride
22 lbs Hydroxypropyl Guar
0.06 Gallons BE-3 or Equivalent
5.5 Gallons CW-1 or Equivalent
0.552 Gals Halliburton Lo-Surf 259
0.1656 lbs GBW-3 or Equivalent

B. Flush tbg with gelled fluid to end of packer approximately 23 bbls.
C. Record ISIP and 15 min. pressure.
D. SION.

10. Swab back load fluid and sand approximately 170 bbls. Report results to Carey Darr, Hobbs office.
    A. Release treating packer and tag for fill after swabbing back load fluid. POOH.
    B. GIH w/hydrostatic bailer and workstring. C.O. remaining sand with hydrostatic bailer. POOH.

11. Test pump Baish A No. 4 for 2 week.
    A. GIH w/SOPMA, SN and 2-3/8" production tbg. Land SN @ 3880'.
    B. Hang well on and test it every day for one week. Report results to Carey Darr, Hobbs office.

12. Prepare to perforate and acidize the Grayburg 3rd Sands and acidize the Grayburg 4th and 5th Sands.
    A. Rig up and kill the well if necessary with 2% KCL and 1 gal Adomall/1000 gals water.
    B. POOH w/rods, pump and tbg.

13. Perforate the Grayburg 3rd Sands as follows:

A. Rig up service company perforating unit.
B. GIH w/3" decentralized select-fire perforating gun. Tag RBP @ 3950 and correlate with PGAC Depth Control Log. Perforate the following intervals w/1 JSPF 0° phasing.

Depth	FT.	# Shots
3618'	1	1
3621'	1	1
3627'	1	1
3629'	1	1
3631'	1	1
	5	5

NOTE: Shot depths have been corrected to Depths Control Log.

NOTE: Minimum charge EHD 0.38
Penetration 10"

C. POOH.

14. Acidize the Grayburg 5th and 4th Sands.
A. GIH w/RBP retrieving head, 4-1/2" 11.6 lb treating packer and 2-3/8" tbg. Test tbg above slips to 6000 psi.
B. Latch onto RBP release it and reset RBP @ 3940'.
NOTE: Perforations exist @ 3852' strap tbg in the hole.
C. Get off of RBP set treating packer and test RBP to 2000 psi surface pressure.
D. Release treating packer and reset treating packer @ 3650'.
NOTE: Perforations exist above the packer.
E. Acidize the Grayburg 4th and 5th Sands @ 3-4 BPM w/2100 gallons 15% NE-FE-HCl inhibited for 24 hrs @ 90°F and 42 1.1 S.G. ball sealers as follows: (see pressure vs. rate chart 3).
1. Pump 500 gals 15% NE-FE-HCL inhibited for 24 hrs.
2. Pump 600 gals 15% NE-FE-HCl inhibited for 24 hrs releasing 2 ball sealers everu hundred gallons.
3. Pump 1000 gals 15% NE-FE-HCl releasing 3 ball sealers every 100 gals and attempt to ball out.
F. Flush w/15 bbls TFW w/1 gal Adomall per 1000 gals water.

15. Acidize the Grayburg 3rd Sands @ 3-4 BPM w/800 gals 15% NE-FE-HCl inhibited for 24 hrs @ 90°F and 10 1.1 S.G. ball sealers as follows: (see pressure vs. rate chart 3).
A. Release treating packer and latch onto RBP. Release RBP and set RBP @ 3150. Get off of RBP set treating packer and test RBP through rubing to 2000 psi surface pressure.
B. Set treating packer @ 3550. Pressure up backside to 200 psi surface pressure.
NOTE: On all acid jobs, monitor backside pressures.
C. Acidize the Grayburg 3rd Sands @ 3-5 BPM w/800 gals 15% NE-FE-HCl inhibited for 24 hrs @ 90°F releasing 10 1.1 S.G. ball sealers as follows:

1. Pump 300 gals 15% HCl-NE-FE inhibited for 24 hrs.
2. Pump 500 gals 15% HCl-NE-FE inhibited for 24 hrs and try to ball out.

D. Flush w/14 bbls TFW w/1 gal Adomall per 1000 gallons water.
E. SI for 60 minutes.
F. Swab back load fluid approximately 35 bbls.
G. Swab back 100 bbls fluid and report the results to Carey Darr, Hobbs office.

16. Return Baish B No. 4 to production.
A. Release treating packer and latch onto RBP @ 3650'.
B. POOH w/2-3/8" workstring, treating packer and RBP.
C. GIH w/SOPMA, SN and 2-7/8" production string.
D. Hang well on and test the well once a week for a month. Report results to Carey Darr, Hobbs office.

17. Thank you.

Carey D Darr — ASSOCIATE ENGINEER — 11/23/83 — DATE

M R Parker — SUPERVISING PRODUCTION ENGINEER — 11-30-83 — DATE

DIVISION ENGINEER — DATE

PRODUCTION SUPERINTENDENT — DATE

CDKD:mjs
cc: CDKD, SRC, DLW, HDM, PRD, Original to Well File