

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPPLICATE\*  
(Other instructions on re-  
verse side)

Form approved.  
Budget Bureau No. 1004-0135  
Expires August 31, 1985

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. <input checked="" type="checkbox"/> OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER		6. LEASE DESIGNATION AND SERIAL NO. NM 23233
2. NAME OF OPERATOR Mesa Operating Limited Partnership		7. UNIT AGREEMENT NAME
3. ADDRESS OF OPERATOR P.O. Box 2009, Amarillo, Tx 79189		8. FARM OR LEASE NAME SOUTH BLANCO FEDERAL 22
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface 660' FSL & 660' FEL		9. WELL NO. 2
14. PERMIT NO.		10. FIELD AND POOL, OR WILDCAT Lybrook Gallup
15. ELEVATIONS (Show whether DF, RT, GR, etc.)		11. SEC., T., R., M., OR B.L. AND SURVEY OR AREA Sec 22, T24N, R8W
		12. COUNTY OR PARISH San Juan
		13. STATE NM

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

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF	<input type="checkbox"/>	PULL OR ALTER CASING	<input type="checkbox"/>
FRACTURE TREAT	<input type="checkbox"/>	MULTIPLE COMPLETE	<input type="checkbox"/>
SHOOT OR ACIDIZE	<input type="checkbox"/>	ABANDON*	<input type="checkbox"/>
REPAIR WELL	<input checked="" type="checkbox"/>	CHANGE PLANE	<input type="checkbox"/>
(Other)	<input type="checkbox"/>		<input type="checkbox"/>

SUBSEQUENT REPORT OF:

WATER SHUT-OFF	<input type="checkbox"/>	REPAIRING WELL	<input type="checkbox"/>
FRACTURE TREATMENT	<input type="checkbox"/>	ALTERING CASING	<input type="checkbox"/>
SHOOTING OR ACIDIZING	<input type="checkbox"/>	ABANDONMENT*	<input type="checkbox"/>
(Other)	<input type="checkbox"/>		<input type="checkbox"/>

(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.)\*

Per verbal permission granted 9-7-89 (MR. STEVE MASON). Mesa proposes to repair a suspected casing leak as follows:

Straddle test casing by setting RBP at 5223' and packer at selected intervals. After identifying the leak, will set packer 250' above leak and test to 700 psi. Will then squeeze with 200 sx "B" cement. WOC at least 12 hours. Test squeeze with 1000 psi. TOOH with RBP and return well to production.

See attached plan for details and wellbore schematic.

RECEIVED  
SEP 20 1989  
OIL CON. DIV.  
DIST. 9

XC: BLM-F (O+5), Well File, Reg, Prod, Expl

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

SIGNED R. E. Mackie TITLE Regulatory Agent

(This space for Federal or State office use)

APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_  
CONDITIONS OF APPROVAL, IF ANY:

APPROVED
DATE 9-7-89
SEP 18 1989
Ken Townsend
FOR AREA MANAGER FARMINGTON RESOURCE AREA

\*See Instructions on Reverse Side  
NMOC/D

SQUEEZE PROCEDURE  
SOUTH BLANCO FEDERAL 22-2  
SECTION 22-T24N-R8W  
SAN JUAN COUNTY, NEW MEXICO

1. MI RU PU.
2. ND WH. NU BOP.
3. T00H w/tbg & retrieving tool. Strap tbg.
4. PU packer & TIH, SN & tbg.
5. Load and roll hole with 100 bbls 2% CaCl<sub>2</sub> or brine water.
6. Set packer @ 5200'. RBP set @ 5223'. Pressure test tbg & annulus to 1000 psi.
7. Release packer and spot 2 sx of sand on top of RBP.
8. T00H to 3000' or 98 jts. Set packer. (Squeezed csg leak on 9/88 from 3639'-3885'.)
9. Pressure up on backside & tbg to 700 psi. If leak is below packer, TIH to 4113'. If leak is above packer, T00H to 1500'. Continue moving up & down the hole halfway between the last 2 settings until leak is found to within 1 jt of the last 2 settings.
10. Set packer about 250' or 8 jts above leak.
11. Pressure annulus to 700 psi to test packer.
12. RU Western to squeeze leaks.
13. Establish an injection rate.
14. Do a hesitation squeeze w/200 sx of Class B cmt. Pressure up to 1000 psi. Note time taken to bleed off. Pressure up again. Note time taken to bleed off. Continue process for 60 minutes or until leak is sealed, whichever comes first. Maximum squeeze pressure - 1200 psi. If no pressure is observed, overdisplace cmt to bottom of leak with wtr & remix cmt.

Cement Design

200 sacks Class B cement	Thickening time	1.25 hrs
5% salt	Density	15.7#/gal
2% CaCl <sub>2</sub> on side	Yield	1.7 ft <sup>3</sup> /sk
	Water volume	5.1 gal/sk
	Total barrels of water	61 bbls

15. Release packer & reverse out excess cmt.
16. Pull up a minimum of 20 jts. Pressure wellbore to 500 psi. SDON.

17. Let cmt set minimum of 12 hrs.
18. POOH & LD packer.
19. PU 3-7/8" bit, 4½" csg scraper & 4 - 3½" DCs. TIH & drill out cmt & tag RBP.
20. Pressure test annulus to 1000 psi to test squeeze.
21. POOH w/tbg & LD DC, csg scraper & bit.
22. PU retrieving tool & TIH. Tag sand on top of RBP. Circulate sand off.
23. Circulate hole w/2% KCl & 1 gal clay stabilizer & 1 gal/1000 surfactant.  
100 bbl 2% KCl wtr  
4.2 gal clay stabilizer  
4.2 gal surfactant
24. Swab back 50 BLW.
25. Latch into RBP & release. TOOH & LD RBP & retrieving tool.
26. TIH w/SN & tbg. Tag PBTD @ 5625'. Land tbg @ 5570'.
27. ND BOP. NU WH.
28. TIH w/pump & rods.
29. RD. Release rig & any rental equipment & return well to production.

Prepared by Steve Lund

Date 9-5-89

Approved by J.D. Keisling

Date 9-6-89

Copies to Jim Keisling  
Steve Lund  
Rick Paris  
Jeff Daniel  
Exploration  
Well File  
Terry McPherson  
George Dixon  
Gayron Brown (FAX)

# MESA LIMITED PARTNERSHIP

ID. NO. 401643

SOUTH BLANCO FEDERAL 22-2

SEPTEMBER 1, 1989

22-T24N-R8W

## HISTORY

SAN JUAN, NM.

GROUND LEVEL 6816'

KB 13' ABOVE PERMANENT DATUM

PERF'D U. GALLUP 12-31-81

PERF'D MAYRE SD. 10-27-81

PERF'D L. GALLUP 10-24-81

8 5/8" K-55 24 #/ft. 286'  
SQUEEZE CSG. LEAK AT 3839' - 3885' 9/88

TOP OF CLIFF HOUSE 3395'

TOP OF MENEPEE 3459'

TOP OF POINT LOOKOUT 4261'

PBTD 5625'

BHT 142 DEG F

4 1/2" CASING K-55 10.5#/ft. STC

5664'

DV TOOL 3051'

BOTTOM OF 2nd STAGE 3108'

TOP OF CEMENT 4480'

2 3/8" J-55 4.7 #/ft.

BAKER RBP 5223'

UPPER GALLUP 5321' - 5327'

MAYRE SD. 5438' - 5449'

LOWER GALLUP 5486' - 5543'

