NM OIL CONS COMMISSION
Drawer DD
Artesia, NM 88210

Form 3160-5
(June 1990)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

SUNDRY NOTICES AND REPORTS ON WELLS

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

SUBMIT IN TRIPLICATE

1. Type of Well: ■ Oil Well ☐ Gas Well ☐ Other
2. Name of Operator: Mewbourne Oil Company
3. Address and Telephone No.: P.O. Box 5270 Hobbs, New Mexico 88241 (505) 393-5905
4. Location of Well (Footage, Sec., T., R., M., or Survey Description): 1980' FNL & 510' FWL Sec. 29-T18S-R30E

5. Lease Designation and Serial No.: NM-27279
6. If Indian, Allottee or Tribe Name:
7. If Unit or CA, Agreement Designation:
8. Well Name and No.: Santo Nino "29" Fed. #1
9. API Well No.:
10. Field and Pool, or Exploratory Area: Santo Nino Bone Spring
11. County or Parish, State: Eddy County, N.M.

12. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION	
☐ Notice of Intent	☐ Abandonment	☐ Change of Plans
☐ Subsequent Report	☐ Recompletion	☐ New Construction
☐ Final Abandonment Notice	☐ Plugging Back	☐ Non-Routine Fracturing
	☐ Casing Repair	☐ Water Shut-Off
	☐ Altering Casing	☐ Conversion to Injection
	■ Other Submit Csg. Design	☐ Dispose Water

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

13. 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.)*

The attached documentation is to provide the Carlsbad BLM office with sufficient information to enable Mewbourne Oil Company to run the 5-1/2" casing design as shown in Exhibit "B". Exhibit "A" shows used casing for a 12.5% rating loss and Exhibit "B" shows used casing for a 15% rating loss. Exhibit "B" more than documents our decision to run a string that more than covers the 12.5% rating loss. Mewbourne Oil Company requests approval for the Exhibit "B" casing design.

14. I hereby certify that the foregoing is true and correct
Signed Bill Pierce Title Drilling Superintendent Date 11/21/94

(This space for Federal or State office use)
Approved by Orig. Signed by Adam Salameh Title Petroleum Engineer Date 12/14/94
Conditions of approval, if any:

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

*See Instruction on Reverse Side

HONDO OIL & GAS CO.

Operator: MEWBOURNE OIL COMPANY	Well Name: Santo Nino 29 Fed.1
Project ID: Bone Spring Oilwell	Location: SW4/NW4 Sec. 29-18-30

Design Parameters:

Mud Weight (9.63 ppg)	: 0.500	psi/ft
Shut in casing pressure	: 2000	psi
Internal gradient (burst)	: 0.262	psi/ft
Annular gradient (burst)	: 0.499	psi/ft

Tensile load is determined using buoyed weight
Service rating is "Sweet"

Design Factors:

Collapse	: 1.266	
Burst	: 1.13	
8 Round	: 2.03	(J)
Buttress	: 1.60	(J)
Other	: 1.50	(J)
Body Yield	: 1.69	(B)

	Length (feet)	Size (in.)	Weight (lb/ft)	Grade	Joint	Depth (feet)	Drift (in.)	Cost
1	7,600	5.500	17.00	K-55	LT&C	7,600	4.767	
2	800	5.500	17.00	L-80	LT&C	8,400	4.767	

	Collapse Load (psi)	Collapse Strgth (psi)	Collapse S.F.	Burst Load (psi)	Min Int Yield Strgth (psi)	Burst S.F.	Tension Load (kips)	Tension Strgth (kips)	Tension S.F.
1	3800	4852	1.277	2000	5320	2.66	121.78	272	2.23 J
2	4200	6280	1.495	200	7740	38.63	11.60	338	29.14 J

Prepared by : *Bill Pierce,*
Date : 11-21-1994
Remarks :
Used 5.5 inch Prod. Csg.
Minimum segment length for the 8,400 foot well is 100 feet.
An annular mud weight of 10.000 ppg was used for burst purposes. The differential mud gradient below any lost-circulation depth is -0.237 psi/ft and the bottom hole pressure load is 11 psi.

NOTE: The design factors used in this casing string design are as shown above. As a general guideline, Lone Star Steel recommends using minimum design factors of 1.125 - Collapse (with evacuated casing), 1.0 - Burst, 1.8 - 8 Round Tension, 1.6 - Buttress Tension, and 1.5 - Body Yield. Collapse strength under axial tension was calculated based on the Westcott, Dunlop and Kemler curve. Engineering responsibility for use of this design will be that of the purchaser. Costs for this design are based on a 1987 pricing model. (Version 1.06)

Exhibit "A"

HONDO OIL & GAS CO.

Operator: MEWBOURNE OIL COMPANY	**Well Name: Santo Nino 29 Fed. 1**
Project ID: Bone Spring Oilwell	**Location: SW4/NW4 Sec. 29-18-30**

Design Parameters:

Mud Weight (9.63 ppg)	: 0.500	psi/ft
Shut in casing pressure	: 2000	psi
Internal gradient (burst)	: 0.262	psi/ft
Annular gradient (burst)	: 0.499	psi/ft

Tensile load is determined using buoyed weight
Service rating is "Sweet"

Design Factors:

Collapse	**: 1.294**	
Burst	**: 1.15**	
8 Round	**: 2.07**	(J)
Buttress	: 1.60	(J)
Other	: 1.50	(J)
Body Yield	**: 1.73**	(B)

	Length (feet)	Size (in.)	Weight (lb/ft)	Grade	Joint	Depth (feet)	Drift (in.)	Cost
1	7,400	5.500	17.00	K-55	LT&C	7,400	4.767	
2	1,000	5.500	17.00	L-80	LT&C	8,400	4.767	

	Collapse Load (psi)	Collapse Strgth (psi)	Collapse S.F.	Burst Load (psi)	Min Int Yield Strgth (psi)	Burst S.F.	Tension Load (kips)	Tension Strgth (kips)	Tension S.F.
1	3700	4836	1.307	2000	5320	2.66	121.78	272	2.23 J
2	4200	6280	1.495	248	7740	31.25	14.50	338	23.31 J

Prepared by : *Bill Pierce,*
Date : 11-21-1994
Remarks :
Used 5.5 inch Prod. Csg.
Minimum segment length for the 8,400 foot well is 100 feet.
An annular mud weight of 10.000 ppg was used for burst purposes. The differential mud gradient below any lost-circulation depth is -0.237 psi/ft and the bottom hole pressure load is 11 psi.

NOTE: The design factors used in this casing string design are as shown above. As a general guideline, Lone Star Steel recommends using minimum design factors of 1.125 - Collapse (with evacuated casing), 1.0 - Burst, 1.8 - 8 Round Tension, 1.6 - Buttress Tension, and 1.5 - Body Yield. Collapse strength under axial tension was calculated based on the Westcott, Dunlop and Kemler curve. Engineering responsibility for use of this design will be that of the purchaser.
Costs for this design are based on a 1987 pricing model. (Version 1.06)

Exhibit "B"