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	TED STATES T OF THE INTERIOR	FORM APPROVED Budget Bureau No. 1004-0135 Expires: March 31, 1993			
	AND MANAGEMENT	5. Lease Designation and Serial No.			
		NM-27279			
SUNDRY NOTICES Do not use this form for proposals to dri Use "APPLICATION FOI	6. If Indian, Allottee or Tribe Name				
SUBMIT	IN TRIPLICATE	7. If Unit or CA, Agreement Designation			
1. Type of Well Oil Gas Well Other	•	8. Well Name and No. Santo Nino 29 Fed. #2			
2. Name of Operator Mewbourne 0il Co.	9. API Well No.				
3. Address and Telephone No.		10. Field and Pool, or Exploratory Area			
P.O. BOX 5270 - Hobbs, New Me 4. Location of Well (Footage, Sec., T., R., M., or Survey D	exico 88241	Santo Nino Bone Spring			
4. Location of Well (Footage, Sec., I., K., M., or Survey D 660' FNL & 510' FWL Unit		11. County or Parish, State			
Sec. 29-T18S-R30E		Eddy County, N. Mex.			
12. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPO	RT, OR OTHER DATA			
TYPE OF SUBMISSION	TYPE OF ACTION				
Notice of Intent	Abandonment	Change of Plans			
Subsequent Report	Plugging Back Casing Repair	New Construction Non-Routine Fracturing Water Shut-Off			
Final Abandonment Notice	Altering Casing Other Submit Casing Design	Conversion to Injection 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 a] Il pertinent details, and give pertinent dates, including estimated date of startin cal depths for all markers and zones pertinent to this work.)*	ng any proposed work. If well is directionally drilled,			
The attached documentation i mation to enable Mewbourne t Exhibit "A" shows a design f rating loss) casing and Exhi chown by the Exhibits our o	s provided to the Carlsbad BLM office to run 5 1/2" production casing as sho for new casing, Exhibit "B" a design bit "C" a design for yellow band (15 casing design far exceeds any paremet for the Exhibit "D" casing design.	for white band (12.5% % rating loss). As			
		When RECEIVED			
		FEB 1 7 1995			
\frown		C DIST. 6 N.M.			
14. I hereby certify that the foregoing is the ant-correct Signed	CL Tide Drilling Superintendent				
(This space for Federal or State office use) Approved by Stighted by Strannon J. Show Conditions of approval, if any:	Title PETROLEUM ENGINEER	Date2/17/95			
Title 18 U.S.C. Section 1001, makes it a crime for any perso or representations as to any matter within its jurisdiction.	n knowingly and willfully to make to any department or agency of the Unit	ed States any false, fictitious or fraudulent statemen			

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*See Instruction on Reverse Side

Operator: MEWBOURNE OIL COMPANY Well Name: Santo Nino 29 Fed. #2									
Pro	ject I	D: Bone	Spring (Dilwell	Loca	tion: 🕅	W4/NW4 29	- T18 S-)	R30E
Design Parameters:Design Factors:Mud Weight (9.63 ppg): 0.500 psi/ftCollapse : 1.125Shut in casing pressure : 2000 psiBurst : 1.00Internal gradient (burst): 0.262 psi/ft8 Round : 1.80 (J)Annular gradient (burst) : 0.499 psi/ftButtress : 1.60 (J)Tensile load is determined using buoyed weightOther : 1.50 (J)Service rating is "Sweet"Body Yield : 1.50 (B)									
	ength feet)	Size (in.)	Weight (1b/ft)		e Joi			rift in.)	Cost.
1 2	7,000 1,400	5.500 5.500	15.50 17.00	K-5 K-5	5 ST& 5 ST&		•	.825 .767	
	Load (psi)	Collapse Strgth (psi)	S.F.	Burst Load (psi)	Min Int Strgth (psi)		•	ension Strgth (kips)	
1 2	3500 4200	3941 4910	1.126 1.169	2000 342	4810 5320	2.41 15.54	112.83 20.30	222 252	1.97 J 12.42 J

Prepared by : , Roswell, New Mexico Date : 02-15-1995 Remarks :

New 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"

Ope	rator:	MEWBOUR	NE OIL C	OMPANY	Well	Name: S	Santo Nin	o 29 F	ed. まス
Pro	ject I	D: Bone	Spring C)ilwell	Locat	tion: A	14/NW4 29	-T18S- 3	R30E
Design Parameters:Design Factors:Mud Weight (9.63 ppg): 0.500 psi/ftCollapse : 1.266Shut in casing pressure : 2000 psiBurst : 1.13Internal gradient (burst): 0.262 psi/ft8 Round : 2.03 (J)Annular gradient (burst) : 0.499 psi/ftButtress : 1.60 (J)Tensile load is determined using buoyed weightOther : 1.50 (J)Service rating is "Sweet"Body Yield : 1.69 (B)									
	ength feet)	Size (in.)	Weight (1b/ft)	Grade	Joir)epth D feet) (rift in.)	Cost
1 2 3 4	400 5,700 1,500 800	5.500 5.500 5.500 5.500	15.50 15.50 17.00 17.00	K-55 K-55 K-55 N-80	ST&C	$\frac{\epsilon}{2}$	5,100 4 7,600 4	.825 .825 .767 .767	
	Load (psi)	Collapse Strgth (psi)	S.F.	Burst Load (psi)	Min Int Strgth (psi)	Yield S.F.	Load	ension Strgth (kips)	S.F.
1 2 3 4	200 3050 3800 4200	3200 3865 4852 6280	9.999 1.267 1.277 1.495	2000 1905 556 200	4810 4810 5320 7740	2.41 2.52 9.58 38.63	113.98108.6933.3511.60	239 222 252 348	2.10 J 2.04 J 7.56 J 30.01 J

, Roswell, New Mexico 02-15-1995 Prepared by : Date

Remarks White band 5.5 inch 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 guide-line, Lone Star Steel recommends using minimum design factors of 1.125 - Collapse (with evacuated casing), 1.0 - Burst, 1.8 - B 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"

Ope	erator:	MEWBOUR	NE OIL C	COMPANY	Well	Name: 1	Santo Nin	io 29 F	ed. #ス
Pro	oject I	D: Bone	Spring ()ilwell	Loca	tion: 🕷	W4/NW4 29	- T18 S-	R30E
Design Parameters:Design Factors:Mud Weight (9.63 ppg): 0.500 psi/ftCollapse : 1.294Shut in casing pressure : 2000 psiBurst : 1.15Internal gradient (burst): 0.262 psi/ft8 Round : 2.07 (J)Annular gradient (burst) : 0.499 psi/ftButtress : 1.60 (J)Tensile load is determined using buoyed weightOther : 1.50 (J)Service rating is "Sweet"Body Yield : 1.73 (B)									
L (ength feet)	Size (in.)	Weight (lb/ft)	Grad	e Joi			rift in.)	Cost
1 2 3 4	600 5,300 1,500 1,000	5.500 5.500 5.500 5.500	15.50 15.50 17.00 17.00	K-5 K-5 K-5 N-8	5 ST& 5 ST&		5,900 4 7,400 4	.825 .825 .767 .767	
	Load (psi)	Collapse Strgth (psi)	S.F.	Burst Load (psi)	Min Int Strgth (psi)	Yield S.F.	Load	ension Strgth (kips)	
1 2 3 4	300 2950 3700 4200	3227 3846 4836 6280	9.999 1.304 1.307 1.495	2000 1858 603 248	4810 4810 5320 7740	2.41 2.59 8.82 31.25	$ \begin{array}{r} 114.24\\ 106.31\\ 36.25\\ 14.50 \end{array} $	239 222 252 348	2.09 J 2.09 J 6.95 J 24.00 J

, Roswell, New Mexico 02-15-1995 Prepared by : Date

Remarks Yellow band 5.5 inch 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 guide-line, 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 "C"

Operator: MEWBOURNE OIL COMPANY Well Name: Santo Nino 29 Fed. #2									
Pro	oject I	D: Bone	Spring	Dilwell	Loca	tion: 🖡	W4/NW4 2	29-T18S-	R30E
Design Parameters:Design Factors:Mud Weight (9.63 ppg) : 0.500 psi/ftCollapse : 1.294Shut in casing pressure : 2000 psiBurst : 1.15Internal gradient (burst) : 0.262 psi/ft8 Round : 2.07 (J)Annular gradient (burst) : 0.499 psi/ftButtress : 9.90 (J)Tensile load is determined using buoyed weightOther : 1.50 (J)Service rating is "Sweet"Body Yield : 1.73 (B)									
	ength (feet)	Size (in.)	Weight (1b/ft)		e Joi		Depth feet)	Drift (in.)	Cost
1 2	7,400 1,000	5.500 5.500	17.00 17.00	K-5 N-8	5 LT& 0 LT&		7,400 8,400	4.767 4.767	
	Load (psi)	Collapse Strgth (psi)	S.F.	Load	Min Int Strgth (psi)		•	Tension Strgth (kips)	
1 2	3700 4200	4836 6280	1.307 1.495	2000 248	5320 7740	2.66 31.25	121.78 14.50	3 272 348	2.23 J 24.00 J

Prepared by : , Roswell, New Mexico Date : 02-15-1995

Remarks

Yellow band 5.5 inch csg.

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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 guide-line, 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)