Approximate Date January 29, 2001	Flac No.	RILLING	ION PROGRAM					
Approximate	Rig No.	Key 2 i			Date: January 29, 2001			
Bottomhole Location. 387 FSL x 1031 FWL DBJECTIVE Primary: Grayburg / San Andres Secondary. METHOD OF DRILLING DEPTH OF DRILLING Set Through - 4400? Marker Rechaels 286 LOG PROGRAM Depth Interval Dep	API #:					•		
### PROVINCE Primary: Grayburg / San Andres Secondary: METHOD OF DRILLING DEPTH OF DRILLING Set Through - 4400 Marker Reduceds 265 3642 KB 11.9 Marker Reduceds 265 3692 3692 KB 11.9 Marker Reduceds 265 3692 3692 3692 3692 3692 Marker Reduceds 265 3692 3692 3692 3692 3692 3692 Marker Reduceds 3692	Lease:	North Hobbs G/SA Unit				Pool:	Hobbs; G/S	Α
DBJECTIVE Primary Grayburg / San Andres Secondary: TYPE OF TOOLS METHOD OF DRILLING Set Through - 4400' Depth Interval Dep	Location:							
METHOD OF DRILLING DEPTH OF DRILLING Rotary Set Through - 4400' Set Through - 4400' Depth Interval Depth Interval Depth Interval Redbeds				WL				***
Estimated Elev GL 3842 KB 11.9	OBJECTIVE:	Primary: Grayburg / San Andres	Secondary:					
Estimated Elev GL 3842 KB 11.9		METHOD OF DRILLING	APPROXIMATE DEPTHS OF GEOLOGICAL MARKER					
Remarks Set Through - 4400 Ruster 1500/1509 Ruster 1500/1509	TYPE OF TOOLS							11.9'
Reducted 265 Section Common Commo	Rotary			Marker				
REMARKS NOT MUID LOGGER SPECIAL TESTS TYPE SPECIAL TESTS #Probable completion interval DRILL CUTTING SAMPLES FROUENCY DEPTH NONE Remarks: Surveys required every 500' Muld Program Approx Interval Surface Fresh Water / Native Mud 8.6 - 9.5 32 - 36 No Control None None None REMARKS CASING PROGRAM: Casing String Surface 1500 8.625', 24 0#, J55, ST8C 12.25' See below Cut hole to fit pipe tally See below Cut hole to fit pipe tally See below 4400.0' See below 4400.0' Test See below 4400.0' Test See below Cut hole to fit pipe tally See below 4400.0' See below 4400.0' See below 4400.0' See below 55 15.58 J55, LT8C Collar - 10 centralizers See below 4400.0' See below 55 15.58 J55 LT8C Collar - 10 centralizers See below 55 15.58 J55 LT8C Collar - 10 centralizers See below 55 15.58 J55 LT8C Collar - 10 centralizers See below 55 15.58 J55 LT8C Collar - 10 centralizers See below 55 15.58 J55 LT8C Collar - 10 centralizers See below 55 15.58 J55 LT8C Collar - 10 centralizers See below 55 15.58 J55 LT8C Collar - 10 centralizers See below 55 15.58 J55 LT8C Collar - 10 centralizers See below 55 15.58 J55 LT8C Collar - 10 centralizers See below 55 15.58 J55 LT8C Collar - 10 centralizers See below 55 15.58 J55 LT8C Collar - 10 centralizers See below 55 15.58 J55 LT8C Collar - 10 centralizers See below 55 15.58 J55 LT8C Collar - 10 centralizers See below 55 15.58 J55 LT8C Collar - 10 centralizers See below 55 15.58 J55 LT8C Collar - 10 centralizers See below 56 15 J57 LT8C Collar - 10 centralizers See below 56 15 J57 LT8C Collar - 10 centralizers See below 57 15 J57 LT8C Collar - 10 centralizers See below 57 15 J57 LT8C Collar - 10 centralizers See below 57 15 J57 LT8C Collar - 10 centralizers See below 57 15 J57 LT8C Collar - 10 centralizer		_					1 1 1 1 1 1 1 1	100
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Remarks: Security of Journal & Strat. 24# J-55 ST&C casing with 10 centralizers. Cament with \$20 sx PBCZ (10.3 galaxy waters). Jack Strategy of the Journal & J-32 yield 14-8#/gall. Jack Strategy of the Journal & J-32 yield 14-8#/gall. Jack Strategy of the Journal & J-32 yield 14-8#/gall. Jack Strategy of the Journal & J-32 yield 14-8#/gall. Jack Strategy of the Journal & J-35 J-55 J-55 J-55 J-55 J-55 J-55 J-55		ment - Gride Shoe - 1 choe joint - E	inat Collar - 10 cent	ralizers			e i joja seliti sku	
Remarks: Compared to the R 501° 248 L-55 ST&G casing with 10 pentralizars. Camera with 500 sx PBCZ (10.3 galax waters) Compared to the R 501° 248 L-55 ST&G casing with 12 cantralizars to 2400° BV Tool safet \$500° and ESI Compared to the Remarks single with with 250 sx Premium Plus and second stage with 800° av Interfill "CT lead and 100 av. Centers Add Fisicale as necessary in both stages to improve circulation. GENERAL REMARKS: Surface Head Valves East & West Reviewed by Logging program developed by:		augur - Guide shoe - 1 shoe joint - Fl fuinment - Guide shoe - 1 shoe joint - Fl	oat Collar - TV Tool	- ECP - 12 centralize	rs.		With	ter ii.
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ABOS OF

OWNELL NY

WELL BORE SKETCH

WELL HEAD 6" X 900

Project #

X3-L00PQ

Well No.: Pool:

814

Hobbs; Grayburg - San Andres

Ground Level: 3642' RDB:

11.9'

GL + RDB:

3653.9

Objective: Grayburg; San - Andres

14" Conductor set at 40'

8 5/8" 24#, J-55, ST&C Casing SA 1500' with 10 centralizers

External Casing Packer at 1400'

Cement 8 5/8" surface casing with 500 sx PBCZ lead and 225

sx PBCZ tailend.

DV Tool set at 3500'

7.875" Hole

Marker Joint at 4000'

Cement first Stage with 250 sx **Premium Plus**

Cement 2nd stage with 800 sx Interfill "C" and 100 sx Premium Plus

TD 4400'

5.5" Float Collar @ 4357.20' One Shoe Joint 5.5" Guide Shoe @ 4400.00"

RECEIVED FEB 05'01

BOUNDLL, NA