

**N.M. OIL CONS. COMMISSION**  
**P.O. BOX 1980**  
**HOBBS, NEW MEXICO 88240**  
SUBMIT IN TRIPLICATE  
Instructions on  
reverse side)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
OMB NO. 1004-0136  
Expires February 28, 1995

**APPLICATION FOR PERMIT TO DRILL OR DEEPEN**

1a. TYPE OF WORK Drill <input checked="" type="checkbox"/> Deepen <input type="checkbox"/>		5. LEASE DESIGNATION AND SERIAL NO. NM 0315712	
b. TYPE OF WELL Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other <input type="checkbox"/> Single Zone <input checked="" type="checkbox"/> Multiple Zone <input type="checkbox"/>		6. IF INDIAN, ALLOTTEE OR TRIBE NAME	
2. NAME OF OPERATOR The Wiser Oil Company		7. UNIT AGREEMENT NAME Maljamar Grayburg Unit	
3. ADDRESS AND TELEPHONE NO. 207 West McKay Carlsbad, NM 88220 (505) 885-5433		8. FARM OR LEASE NAME, WELL NO. Well No. 101	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. *) At surface 231' FSL & 330' FWL, Unit M At proposed prod. zone		9. API WELL NO. 30-025-	
14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE * 1/2 mile west of Maljamar, New Mexico		10. FIELD AND POOL, OR WILDCAT Maljamar Grayburg San Andres	
15. DISTANCE FROM PROPOSED * LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any) 330'		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Sec. 4-T17S-R32E	
16. NO. OF ACRES IN LEASE 3280		12. COUNTY OR PARISH Lea	
17. NO. OF ACRES ASSIGNED TO THIS WELL 40		13. STATE	
18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT. 787'		14. COUNTY OR PARISH Lea	
19. PROPOSED DEPTH 4400'		15. STATE	
20. ROTARY OR CABLE TOOLS Rotary		16. STATE	
21. ELEVATIONS (Show whether DF, RT, GR, etc.) 4094' GR		17. STATE	
22. APPROXIMATE DATE WORK WILL START February 1, 1996			
23. PROPOSED CASING AND CEMENTING PROGRAM			
SIZE OF HOLE	GRADE SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH
12 1/4"	8 5/8" J-55	24#	1200' 500'
7 7/8"	5 1/2" J-55	17#	4400'
			QUANTITY OF CEMENT Circulate Sufficient to bring top of cement to base of 8 5/8" csg

Mud Program: 500'  
0 - 1200'  
1200 - TD  
500'

Drill with fresh water  
Drill with brine water

**BOP Program:**  
Will install on the 8 5/8" surface casing a 10" Series 900 Type "E" Shaffer Double Hydraulic BOP and will test before drilling in the Queen formation.

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24. SIGNED Melanie Parker TITLE Agent DATE 1/8/96

(This space for Federal or State office use)

PERMIT NO. \_\_\_\_\_ APPROVAL DATE \_\_\_\_\_  
APPROVAL SUBJECT TO  
GENERAL REQUIREMENTS AND  
SPECIAL STIPULATIONS  
ATTACHED

Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would enable the applicant to conduct operations thereon.

CONDITIONS OF APPROVAL, IF ANY:

APPROVED BY **(ORIG. SGD.) RICHARD L. MANU\*** AREA MANAGER  
\*See  
OPER. OGRID NO. 22922  
PROPERTY NO. 11844  
POOL CODE 43320  
EFF. DATE 4/4/96  
API NO. 30 025 33373  
agency of the United States

Title 18 U.S.C. Section 1001, makes it a crime for any person any false, fictitious or fraudulent statements or representation:

District I  
PO Box 1980, Hobbs, NM 88241-1980  
District II  
PO Drawer DD, Artesia, NM 88211-0719  
District III  
1000 Rio Brazos Rd., Aztec, NM 87410  
District IV  
PO Box 2088, Santa Fe, NM 87504-2088

State of New Mexico  
Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION  
PO Box 2088  
Santa Fe, NM 87504-2088

Form C-102  
Revised February 10, 1994  
Instructions on back  
Submit to Appropriate District Office  
State Lease - 4 Copies  
Fee Lease - 3 Copies

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-025-		Pool Code 43329	Pool Name Maljamar Grayburg San Andres
Property Code 011844	Property Name Maljamar Grayburg Unit		Well Number 101
OG2ID No. 022922	Operator Name The Wiser Oil Company		Elevation 4094

<sup>10</sup> Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
M	4	17 S	32 E		231	South	330	West	Lea

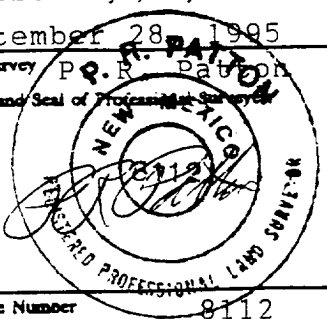
<sup>11</sup> Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County

<sup>12</sup> Dedicated Acres <sup>13</sup> Joint or Infill <sup>14</sup> Consolidation Code <sup>15</sup> Order No.

40  
55

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED  
OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

<div style="display: flex; flex-direction: column; align-items: center;"> <div>16</div> <div style="margin-top: 20px;"> <div style="display: flex; justify-content: space-between; width: 100%;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">4092.1</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">4096.9</div> </div> <div style="display: flex; align-items: center; margin-top: 10px;"> <div style="border: 1px solid black; padding: 2px;">330</div> <div style="margin: 0 5px;">↑</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">4090.3</div> </div> <div style="margin-top: 10px;">4094.9</div> </div> </div>	<p><sup>17</sup> OPERATOR CERTIFICATION</p> <p>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief</p> <div style="margin-top: 20px;"> <p>Signature <u>Melanie J. Parker</u></p> <p>Printed Name <u>Agent</u></p> <p>Title <u>12/7/95</u></p> <p>Date</p> </div>			
	<p><sup>18</sup> SURVEYOR CERTIFICATION</p> <p>I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.</p> <div style="margin-top: 20px;"> <p>Date of Survey <u>September 28, 1995</u></p> <p>Signature and Seal of Professional Surveyor <u>P. R. Patton</u></p> </div>			
	<div style="text-align: center;">  </div>			
	<p>Certificate Number <u>8112</u></p>			

## APPLICATION FOR DRILLING

THE WISER OIL COMPANY  
MALJAMAR GRAYBURG UNIT WELL NO. 101  
231' FSL & 330' FWL, UNIT M  
SECTION 4, TOWNSHIP 17 SOUTH, RANGE 32 EAST  
LEA COUNTY, NEW MEXICO  
LEASE NO. NM-0315712

In connection with Form 3160-3, Application for Permit to Drill subject well, The Wiser Oil Company submits the following items of pertinent information in accordance with BLM requirements:

1. The geological surface formation is recent Permian with quaternary alluvium and other surficial deposits.
2. The estimated tops of geological markers are as follows:

Rustler Anhydrite	1060'
Top of Salt	1290'
Base of Salt	2220'
Queen	3350'
Grayburg	3800'
San Andres	4100'
T.D.	4400'

3. The estimated depths at which water, oil or gas formations are anticipated to be encountered:

Water: There is little, if any, fresh water in this section.

Oil: Grayburg and San Andres below 3900'.

Gas: None anticipated.

4. Proposed Casing Program:

<u>Hole Size</u>	<u>Interval</u>	<u>Casing OD</u>	<u>Weight, Grade, Type</u>
18"	0-40'	14"	Conductor
12 1/4"	0' <del>40'</del> 40'-1200'	8 5/8"	24# 8RD J-55 ST&C New
7 7/8" →	0' 1200'-TD	5 1/2"	17# 8RD J-55 LT&C New

18" Conductor Casing: Cemented with ready-mix to surface.

8 5/8" Intermediate Casing: Cemented with 300 sx Class "C" cmt w/ 2% CaCl. Circulate

to surface.

5 1/2" Production Casing: Cemented with 700 sx Halliburton Lite w/ 1/4# Flocele, 325 sx Premium Plus w/ .5% Halad-9 & 325 sx Premium Plus w/ .5% Halad-344 w/ 3% KCl.

The above cement volumes could be revised pending the caliper measurement from the open hole log. The top of cement is designed to reach 100' above 8 5/8" casing shoe.

5. Proposed Control Equipment: The blowout preventor equipment (BOP) will consist of a (3M System) double ram type (3000 psi WP) preventor. Both units will be hydraulically operated and the ram type preventor will be equipped with blind rams. Both BOP's will be installed on the 8 5/8" surface casing and utilized completely until total depth is reached. Prior to drilling out the 8 5/8" casing shoe, the BOP's and Hydril will be function tested as per BLM Drilling Operations Order #2.
6. Mud Program: The well will be drilled to total depth using brine & fresh water. Depths of systems are as follows:

<u>Depth</u>	<u>Type</u>	<u>Weight (ppg)</u>	<u>Viscosity (1/sec)</u>	<u>Water Loss (cc/30 min)</u>
500'				
0-550'	Fresh Water	8.8	30	No Control
550-TD	Brine Water	9.5-10.5	28	No Control
500'				

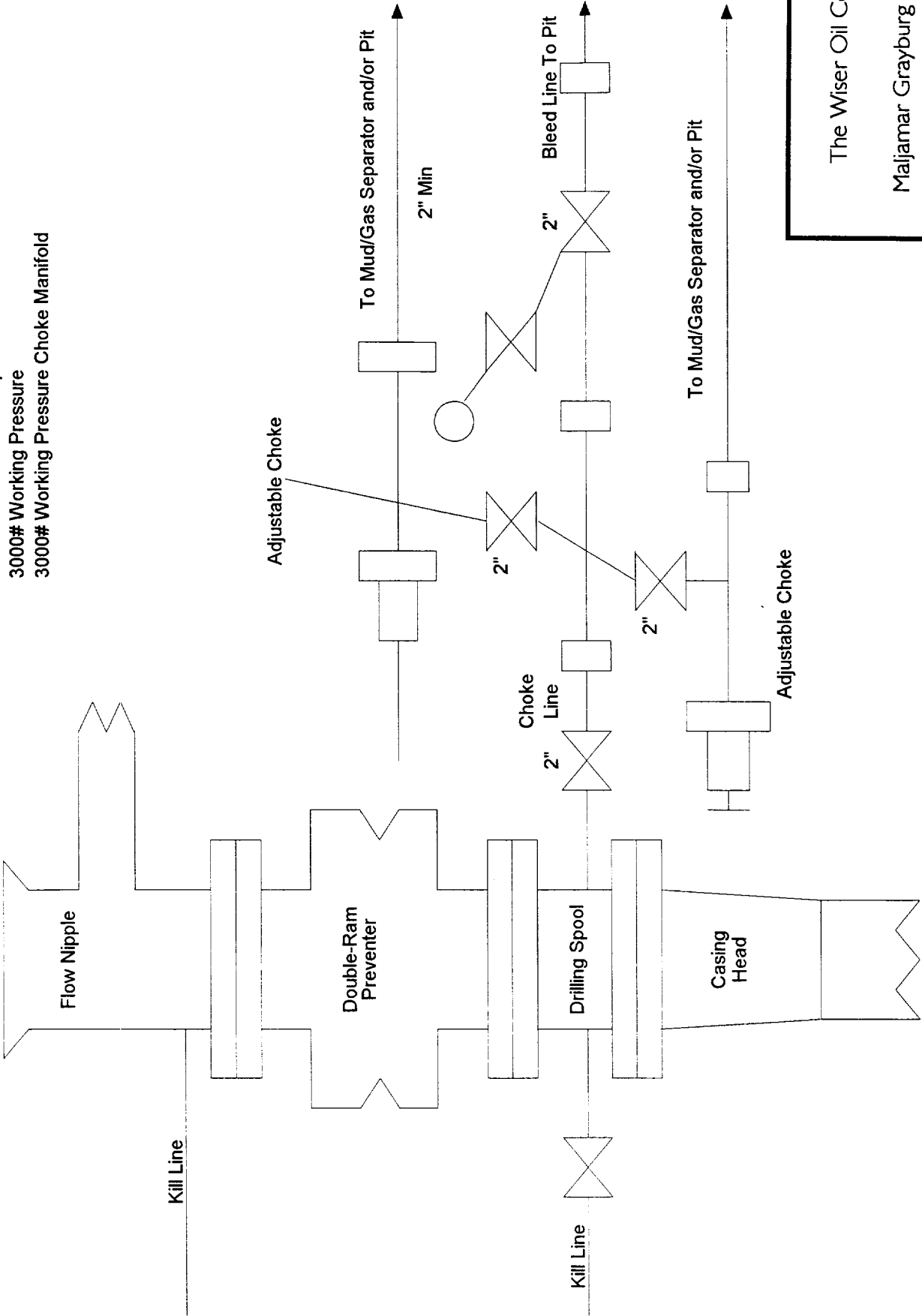
7. Auxiliary Equipment: Blowout preventer, gas detector, kelly cock, pit level monitor, flow sensors and stabbing valve.
8. Testing, Logging and Coring Programs:  
  
Drill Stem Tests: None planned.  
  
Logging: GR-DLL-MSFL-Cal T.D. - 2300'  
GR-CNL-CDL-Cal T.D. - Surface
9. No abnormal pressures or temperatures are anticipated. In the event abnormal pressures are encountered, the proposed mud program will be modified to increase the mud weight. The anticipated bottom hole pressure is 1980 psi.
10. Notice of Staking was sent to Carlsbad, New Mexico BLM office. A Cultural Resources Examination will be completed by Archaeological Survey Consultants and a copy forwarded to the Carlsbad, New Mexico BLM office.

Road and location preparation will not be undertaken until approval has been received from

the BLM. The anticipated spud date is approximately February 1, 1996. The drilling operation should require approximately 9 days. If the well is deemed productive, completion operations will require, at minimum, an additional 30 days of testing to ascertain whether permanent production facilities will be constructed.

**BOP & CHOKE MANIFOLD**

12"/900 Cameron SS Space Saver  
3000# Working Pressure  
3000# Working Pressure Choke Manifold



The Wiser Oil Company  
Maljamar Grayburg Unit #101  
231' FSL & 330' FWL, Unit M  
Section 4, T17S, R32E  
Lea County, New Mexico

9/11/11

