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b. TYPE OF WOL	DRILL	DEEPEN	PLUG B		7. UNIT AGREEMENT NAME
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8. ADDRESS OF OF			bit A Y	1991	2
		Midland,	TX 79702		10. FIELD AND POOL, OR WILDCAT
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	Same	W			Sec. 14-T19S-R31E
	es SE of Loco				12. COUNTY OR PARISH 18. STATE Eddy New Mexi
LOCATION TO PROPERTY OR (Also to Dear	M PAOPORED NEAREST LEASE LINE, PT. rest drig. unit line, if any) M PROPOSED LOCATION®	330'	NO. OF ACRES IN LEASE	тотн	ACRES ABSIONED
TO NEAREST V	WELL, DRILLING, COMPLETE , on this lease, FT.	P. N/A	PROPOSED DEPTH 4000	20. ROTAR	rotary
	how whether DF, RT, GR, o	3553'GL			22. APPROX. DATE WORK WILL START* June 25, 1991
23.		PROPOSED CASING AN	D CEMENTING PROGE	AM	
NIZE OF HOL			SETTING DEPTH		QUANTITY OF CEMENT
$\frac{12 \ 1/4}{7 \ 7/8}$		<u> </u>	4000'	<u>400 s</u>	
					550 SX HL + 150 SX
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*See Instructions On Reverse Side

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 basis of the basis

Submit to the Appropriate Form C--102 District Office State of New Mexico State Lease - 4 copies Fee Lease - 3 copies Revised 1-1-89 E1 gy, Minerals, and Natural Resources partment DISTRICT I P. O. Box 1980 **OIL CONSERVATION DIVISION** Hobbs, NM 88240 P. O. Box 2088 DISTRICT II Santa Fe, New Mexico 87504-2088 P. O. Drawer DD Artesio, NM 88210 DISTRICT III 1000 Rio Brazos Rd WELL LOCATION AND ACREAGE DEDICATION PLAT Aztec, NM 87410 All distances must be from the outer boudaries of the section Operator Lease Well No. DAVID H. ARRINGTON OIL & GAS, INC. ARRINGTON FEDERAL 2 Unit Letter Section Township Range D 19-SOUTH 14 31-EAST NMPM EDDY COUNTY Actual Pootage Location of Well 330 NORTH 990 WEST feet from the line and feet from the line Producing Formation Ground Level Elev. Pool 3553' Seven Rivers 40 Shugart Y, SR, Q, G Acres 1. Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below. 2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty). 3. If more than one lease of different ownership is dedicated to the well, have the interest of all the owners the reverse side of this form if neccessary.) No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, forced-pooling, or otherwise) or until a non-standard unit, eliminating such interest, has been approved by the division. OPERATOR CERTIFICATION 330' 990'-I hereby certify that the information herein is true and complete to the best of my knowledge and belief. Signature • • • Printed Name George R. Smith NM-86554 Position David H. Arrington Oil & Gas, Inc. Agent for: Company David H. Arrington O & G Inc May 2, 1991 SURVEYOR CERTIFICATION 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 knowledge and belief. Date Surveyed APRIL 23, 1991 Signature and Seal of Professional Surveyor Certificate No V. LYNN BEZNER, R.L.S. #7920 ۵ 330 660 990 1320 1650 1980 2310 2640 2000 1500 1000 500 ٥

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PLAT SHOWING PROPOSE WELL LOCATION and LEAJE ROAD in SECTION 14, T-19-S, R-31-E, EDDY COUNTY, NEW MEXICO



APPLICATION FOR DRILLING

DAVID H. ARRINGTON OIL & GAS, INC. Arrington Federal, Well No. 2 330' FNL & 990' FWL, sec. 14-T19S-R31E Eddy County, New Mexico Lease No.: NM-86554 (Developemnt Well)

In conjunction with Form 3160-3, Application for Permit to Drill subject well, Manzano Oil Corporation submits the following items of pertinent information in accordance with BLM requirements:

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

Rustler	700'	Queen	3300'
Top/Salt	800'	T.D.	4000'
Tansill	2200'		
Yates	2400'		
Seven Rivers	2600'		

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

Water: Surface water between 100' - 350'. Rustler 700' - 800'.

Gas: Possible in the Yates, Seven Rivers or the Queen.

Oil: Possible in the Yates, Seven Rivers or the Queen.

- 4. Proposed Casing Program: See Form 3160-3.
- 5. Proposed Control Equipment: See Form 3160-3 and Exhibit "E".
- 6. Mud Program: See Form 3160-3.
- 7. Auxiliary Equipment: Blowout Preventer, gas detector, Kelly cock, pit level monitor, flow sensors and stabbing valve.
- 8. Testing, Logging, and Coring Program:

Drill Stem Tests: One planned in Seven Rivers and one in the Queen.

Logging:	Gamma Ray/Cal.:	Surf. Csg. to T.D.
	DLL-MSFL, CNL-LDT	Below 8 5/8" to T.D.

Coring: None planned.

- 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.
- Anticipated starting date: June 25, 1991.
 Anticipated completion of drilling operations: Approximately 3 weeks.

MULTI POINT SURFACE USE AND OPERATIONS PLAN

DAVID H. ARRINGTON OIL & GAS, INC. Arrington Federal, Well No. 2 330' FNL & 990' FWL, Sec. 14-T19S-R31E Eddy County, New Mexico NM-86554 (Development Well)

This plan is submitted with the Application for Permit to Drill the above described well. The purpose of the plan is to describe the location of the proposed well, the proposed construction activities and operations plan, to be followed in rehabilitating the surface environmental effects associated with the operations.

- 1. EXISTING ROADS:
 - A. Exhibit "A" is a portion of a BLM Topo map showing the location of the proposed well as staked. The well site location is approximately 43 road miles east of Artesia, New Mexico or 18 miles southeast of Loco Hills, NM. Traveling east of Loco Hills there will be approximately 16 miles of paved Federal & county highway and 1.6 miles of gravel county and oilfield roads.
 - B. Directions: Travel east from Loco Hills, NM on U.S. Highway 82 for approximately 5.2 miles, then turn south onto paved County Rd. 222. Continue south for 10.4 miles. Turn southeast onto the gravel County Rd. #248 for approximately 1.1 mile, then turn left (northeast & north) on a caliche oilfield road for .5 miles to the start of the access road on the left. The location is staked approximately 1000 feet west of the existing access road.
- 2. PLANNED ACCESS ROAD:
 - A. Length and Width: The proposed access road will be constructed to a width of 12 feet (24' Max.) and approximately 918 feet long from the existing access road on the east to the southeast corner of the proposed location. See Exhibit "B".
 - B. Construction: The proposed access road will be constructed by grading and topping with compacted caliche and will be properly drained.
 - C. Turnouts: None will be required.
 - D. Culverts: None.
 - E. Cuts and Fills: None.
 - F. Gates, Cattleguards: None required.
 - G. Off Lease R/W: None required.

3. LOCATION OF EXISTING WELLS:

A. Existing wells within a two mile radius are shown on Exhibit "C".

David H. Arrington Oil & Gas, Inc. Arrington Federal, Well No. 2 Page 2

- 4. LOCATION OF EXISTING AND/OR PROPOSED FACILITIES;
 - A. There are no production facilities on the lease at this time.
 - B. If the well proves to be commercial, the necessary production facilities, gas separation-process equipment and tank battery will be installed on the drilling pad or a flow line will be run adjacent to the proposed access road back to the Arrington Fed., well No. 1 tank battery. See Exhibit "C".
- 5. LOCATION AND TYPE OF WATER SUPPLY:
 - A. It is planned to drill the proposed well with fresh water that will be obtained from private or commercial sources and will be transported over the existing and proposed access roads.
- 6. SOURCE OF CONSTRUCTION MATERIALS:
 - A. Caliche for surfacing the proposed access road and well site pad will be obtained on site within the approved 400' X 400' or from an approved Federal pit in the SE%SE% of Section 14-T19S-R31E. The topsoil from the location will be stockpiled near the location for future rehabilitation use. No surface materials will be disturbed except those necessary for actual grading and leveling of the drill site and access road.
- 7. METHODS OF HANDLING WASTE DISPOSAL:
 - A. Drill cuttings will be disposed of in the reserve pits.
 - B. Drilling fluids will be allowed to evaporate in the reserve pits until the pits are dry.
 - C. All pits will be fenced with normal fencing materials to prevent livestock from entering the area.
 - D. Water produced during operations will be collected in tanks until hauled to an approved disposal system, or a separate disposal application will be submitted to the BLM for approval.
 - E. Oil produced during operations will be stored in tanks until sold.
 - F. Current laws and regulations pertaining to the disposal of human waste will be complied with.
 - G. Trash, waste paper, garbage and junk will be buried in a separate trash pit and covered with a minimum of 24 inches of dirt. All waste material will be contained to prevent scattering by the wind.
 - H. All trash and debris will be buried or removed from the well site within 30 days after finishing drilling and/or completion operations.
- 8. ANCILLARY FACILITIES:
 - A. None required.

David H. Arrington Oil & Gas, Inc. Arrington Federal, Well No. 2 Page 3

- 9. WELL SITE LAYOUT:
 - A. Exhibit "D" shows the relative location and dimensions of the well pad, reserve pits, and major rig components. The pad and pit area has been staked and flagged, 400' X 400'.
 - B. Mat Size: 230' X 150', plus 95' X 83' reserve pits.
 - C. Cut & Fill: Cut 1 foot on the northeast and fill to the southwest.
 - D. The surface will be topped with compacted caliche and the reserve pits will be plastic lined.
- 10. PLANS FOR RESTORATION OF THE SURFACE:
 - A. After completion of drilling and/or completion operations, all equipment and other material not needed for operations will be removed. Pits will be filled and the location cleaned of all trash and junk to leave the well site in an aesthetically pleasing a condition as possible.
 - B. Any unguarded pits containing fluids will be fenced until they are filled.
 - C. If the proposed well is non-productive, all rehabilitation and/or vegetation requirements of the Bureau of Land Management will be complied with and will be accomplished as expeditiously as possible. All pits will be filled and leveled within 90 days after abandonment or as soon as the pits are dry enough to work.

11. OTHER INFORMATION:

- A. Topography: The well site and access road are located approximately three miles west/southwest of the Querecho Plains with the proposed site on very level location with a 1.0% slope to the southwest from an elevation of 3553'.
- B. Soil: The topsoil at the well site is a fine sandy loam of the Simona-Wink Series, which probably over lays a caliche bed at a depth of 2 - 3 feet. There is some caliche scatter on the surface.
- C. Flora and Fauna: The vegetation cover is a fair to good grass cover of three-awn, dropseed, blue and black grama, and other misc. native grasses along with plants of mesquite, Mormon-tea, yucca, cacti and miscellaneous weeds and wildflowers. The wildlife consists of rabbits, coyotes, rattlesnakes, lizards, dove, quail and other wildlife typical of the semi-arid desert land.
- D. Ponds and Streams: None in area.
- E. Residences and Other Structures: None except oil production equipment.
- F. Land Use: Cattle grazing.
- G. Surface Ownership: The proposed well site and access road is on Federal surface and minerals.

David H. Arrington Oil & Gas, Inc. Arrington Federal, Well No. 2 Page 4

- 11. OTHER INFORMATION: cont.....
 - H. There is no evidence of any archaeological, historical or cultural sites in the area. An archaeological survey will be conducted by Archaeological Survey Consultants, P. O. Box D, Roswell, NM 88202, and their report will be submitted to the appropriate government agencies.

12. OPERATOR'S REPRESENTATIVE:

A. The field representative responsible for assuring compliance with the approved surface use and operations plan is as follows:

Steve Scott	Keith Logan	
310 W. Texas	David H. Arrington Oil & Gas, Inc.	
Midland, TX 79701	P. O. Box 2071	
Office Phone: (915) 682-9553	Midland, TX 79702	
	Office Phone: (915) 682-6685	

13. CERTIFICATION:

I hereby certify that I have inspected the proposed drill site and access route; that I am familiar with the conditions which presently exist; that the statements made in the plan are, to the best of my knowledge, true and correct; and, that the work associated with the operations proposed herein will be performed by David H. Arrington Oil & Gas, Inc. and its contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved. This statement is subject to the provisions of 18 U.S.C. 1001 for the filing of a false statement.

May 2, 1991

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George R. Smith Agent for: David H. Arrington Oil & Gas, Inc.









EXHIBIT "D" DAVID H. ARRINGTON OIL & GAS, INC. Arrington Federal, Well No. 2 Pad & Pit Layout

Peterson Drilling Company Rig 2 location plat

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EXHIBIT "E" DAVID H. ARRINGTON OIL & GAS, INC. Arrington Federal, Well No. 2 BOP Specifications