		N.M.U.U.D.	UUPI (
Form 9-331 C			SUBMIT IN T		Form approved. Budget Bureau No. 42-R1425.	
(May 1963)	UNIT	ED STATES	(Other instru reverse s	etions on ide)	30-015-23115	
	DEPARTMENT	OF THE INTER	NOR		5. LEASE DESIGNATION AND SERIAL NO.	
GEOLOGICAL SURVEY				NM 6852		
APPLICATION	I FOR PERMIT T	O DRILL, DEEPI	EN, OR PLUG	BACK	6. IF INDIAN, ALLOTTEE OR TRIBE NAME	
			PLUG BA	ск 🗌	7. UNIT AGREEMENT NAME	
b. TYPE OF WELL OIL WELL WI		JAN - 3 198	SCLE MULTH		8. FARM OR LEASE NAME	
WELL A. WELL OTHER JAN - 3 1980: ZONE 2. NAME OF OPERATOR					Federal "EH"	
Rhonda Opera		9. WELL NO.				
	in. Midlon	ARTESIA, OFFICI			3 10. FIELD AND POOL, OR WILDCAT	
4. LOCATION OF WELL (Re	eport location clearly and	in accordance with any S	tate requirements.*)		K Empire ABO	
At surface 330' FNL & 3	380' FWL				11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA	
At proposed prod. zone	e				NW/4 Section 12,	
330' FNL & 3 14. DISTANCE IN MILES A	380 [†] FWL	EST TOWN OR POST OFFIC	C*	D -	<u>T-18-S, R-27-E</u> 12. COUNTY OR PARISH 13. STATE	
	n and 8 miles E				Eddy N.M.	
15. DISTANCE FROM PROPO LOCATION TO NEAREST		0'FNL & $16. \text{ NG}$). OF ACRES IN LEASE		DF ACRES ASSIGNED HIS WELL	
PROPERTY OR LEASE L (Also to nearest drlg	. unit line, if any) 38	0'FWL	160		80	
18. DISTANCE FROM PROPO TO NEAREST WELL, DI OR APPLIED FOR, ON THI	RILLING, COMPLETED,	o well	OPOSED DEPTH	20. ROTA	RY OR CABLE TOOLS	
21. ELEVATIONS (Show whe		plugged	6250'	1	Rotary 22. APPROX. DATE WORK WILL START*	
		3620'			12/28/79	
23.	P	ROPOSED CASING ANI	CEMENTING PROGR	AM		
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH		QUANTITY OF CEMENT	
12-1/4"-11"	8-5/8''	22#	1600400	85	50 sacks	
7-7/8''	5-1/2"	17#	6250'	15	0 sacks	
Exhibit A B	LM Quad color	maps Nos. S	E23 & SE24			
	ortion of USGS	—				
Exhibit C E	ddy County, N	ew Mexico own	ership map		RECEIVED	
Exhibit D W	Exhibit D Well pad dimension and reserve pit diagrams					
Exhibit E E	Blow-out preven	nter diagram			DEC 1 1 1979	
	Mud Program					
Exhibit G Drilling Rig equipment description U.S. GEOLOGICAL SURVEY						
Exhibit H New Mexico Oil Conservation Commission Form CARTERA, NEW MEXICO						
					-	
IN ABOVE SPACE DESCRIBE	PROPOSED PROCHAM : If	proposal is to deepen or p	olug back, give data on p	present prod	uctive zone and proposed new productive	
zone. If proposal is to preventer program, if any	drill or Reepen directiona				d and true vertical depths. Give blowout	
24.		1				
SIGNED	X INKXUN/		Agent		DATE 12/10/79	
	ral or State office use)					
-			APPROVAL DATE	- 2 - >	20	
PERMIT NO			APPROVAL DATE			
APPROVED BY		TITLE			DATE	
CONDITIONS OF APPROV	AL. IF ANY :					

*See Instructions On Reverse Side

NEW LEXICO OIL CONSERVATION COMMISSION WELL LOCATION AND ACREAGE DEDICATION PLAT

All distances must be from the outer boundaries of the Section Well Nr Lease Letator RHONDA OIL COMPANY lederal Α Section Township Banae County nut Letter 18 South 27 East Eddy D 12 Actual Foctage Location of Well: West 330 North 390 feet from the teet from the line and :156 Cedicated Actemp Producing Formation Pool Ground Level Elev. 40 1-20 3607.2 ABO £ 12 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). JAN - 3 1980 3. If more than one lease of different ownership is dedicated to the well, have the interests of all owners been consola dated by communitization, unitization, force-pooling. etc? O. Ĉ. D. ARTESIA, OFFICE []]Yes X No If answer is "yes," type of consolidation If answer is "no," list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if necessary.). 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 interests, has been approved by the Commussion. CERTIFICATION 380the information concomplete to the H. Scott Davis - Agent Festion EXHIBIT H Rhonda Operating Company Com: unv Rhonda Operating Company December 10, 1979 "EA" Federal Lease, Well #3 330' FNL & 380' FWL Section 12, T-18-S,R-27-E Eddy County, New Mexico I hereby certify that the well location on this plat was plotted from field ny supervision, and that the same RECEIVED and correct to the best of my knowledge and belief DEC11 1979 HERSCHEL JONES Date Surveyed U.S. GEOLOGICAL SURVEY 3640 December 3, 1979 ARTESIA, NEW MEXICO Registered Frotessional Engineer and or Land Surveyor Certificate

Form C-102 Supersedes C-128 Effective 1-1-65



Your APPLICATION FOR PERMIT TO DRILL the above-described well to a depth of 6,250 feet to test the Abo formation is hereby approved subject to compliance with the OIL AND GAS OPERATING REGULATIONS (30 CFR 221) and the following conditions:

- 1. Drilling operations authorized are subject to compliance with the GENERAL REQUIREMENTS FOR OIL AND GAS OPERATIONS ON FEDERAL LEASES, dated July 1, 1978.
- 2. Prior to commencing construction of road, pad, or other associated developments, operator will provide the dirt contractor with a copy of the SURFACE USE PLAN and this approval including the GENERAL REQUIREMENTS.
- 3. Submit a Daily Report of Operations from spud date until the Well Completion Report (form 9-330) is filed. The progress report should be not less than 8" x 5" in size and each page should identify the well.
- 4. All permanent above-ground structures and equipment shall be painted in accordance with the attached Painting Requirements. The color used should simulate Sandstone Brown (Federal Standard No. 595A, color 20318 or 30318).
- 5. Cement behind the 8-5/8" casing must be circulated.
- Notify Survey in sufficient time to witness the cementing of the 8-5/8" and 5-1/2" casing.
- 7. Special stipulations: This location is approved at 380 FWL (BLM).



8. Please have anyone contacting the Survey in regard to this well to identify the well with all of the information required above for the well sign.

Sincerely yours,

BEORGE H. STEWART

George H. Stewart Acting District Engineer .

APPLICATION FOR DRILLING

Rhonda Operating Company "EA" Federal Well No. 3 330' FNL and 380' FWL Section 12, T-18-S, R-27-E Eddy County, New Mexico

In conjunction with Form 9-331C, Application for Permit to Drill subject well, Rhonda Operating Company submits the following ten items of pertinent information in accordance with USGS requirements:

- 1. The geologic surface formation is Permian.
- 2. The estimated tops of geologic markers are as follows:

Queen	1015'
San Andres	1954'
YESO	3518'
ABO	5210'

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

Water:	N.A.
Oil or gas:	YESO: approximately 3010'
	to 3550'
	ABO: approx. 4950' to 6250'

- 4. Proposed Casing Program: See Form 9-331C.
- 5. Pressure Control Equipment: See Form 9-331C and Exhibit E.
- 6. Mud Program: See Exhibit D
- 7. Auxiliary Equipment: See Exhibit H.
- 8. Testing, Logging and Coring Programs:

Drill stem tests (all DST's to be justified by a valid show of oil): ABO 5210'-6250' Logging: Logging unit from 5000' (basal ABO) to TD. Electric Log Program: Neutron Porosity Log Dual Induction Laterolog

- 9. No abnormal pressures or temperatures are anticipated.
- 10. Anticipated starting date: As soon as possible.

MULTI-POINT SURFACE USE AND OPERATIONS PLANE RECEIVED Rhonda Operating Company "EA" Federal Well No. 3 DEC 1 1 1979 330' FNL and 380' FWL Section 12, T-18-S, R-27-E U.S. GEOLOGICAL SURVEY

This plan is submitted with Form 9-331C, Application for PernARTESA NEW MEXICO covering the above described well. The purpose of this plan is to describe the location of the proposed well, the proposed construction activities and operations plan, the magnitude of necessary surface disturbance involved, and the procedures to be followed in rehabilitating the surface after completion of the operations, so that a complete appraisal can be made of the environmental effects associated with the operation.

- 1. EXISTING ROADS.
 - Exhibit A is composite BLM Quad-Color maps nos. SE-23 and Α. SE-24. Exhibit B is a portion of a USGS topographic map of the area on a scale of approximately 2.65 inches to the mile, showing the location of the proposed wellsite, and roads in the vicinity. The proposed location is situated approximately 8 miles Eastand 4 miles South of Artesia, New Mexico, via the access route shown in red.

DIRECTIONS:

- 1. Proceed North from Carlsbad on 6213 for + 20 miles.
- 2. Turn Left (Northwest) and continue for .4 miles.
- 3. Proceed West on meandering existing road 1.6 miles to location.
- 2. PLANNED ACCESS ROAD.
 - Well site is located on an existing road and no additional access will Α. be required.
- 3. LOCATION OF EXISTING WELLS.
 - Α. The well locations in the vicinity of the proposed well are shown in Exhibit C.
- LOCATION OF EXISTING AND/OR PROPOSED FACILITIES. 4.
 - There is no producing well on this lease at the present time. Α.
 - In the event that the well is productive, the necessary production в. facilities will be installed on the drilling pad.

"EA" Federal Well Page 2

5. LOCATION AND TYPE OF WATER SUPPLY.

- A. It is planned to drill the proposed well with a fresh water system. The water will be obtained from commercial sources and will be hauled to the location by truck over the existing and proposed roads shown in Exhibits A and B.
- 6. SOURCES OF CONSTRUCTION MATERIALS.
 - A. Any caliche required for construction of the drilling pad and the new access road will be obtained from an existing pit on federally owned surface shown of Exhibit B.
- 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. 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 USGS for appropriate approval.
 - D. Oil produced during operations will be stored in tanks until sold.
 - E. Current laws and regulations pertaining to the disposal of human waste will be complied with.
 - F. Trash, waste paper, garbage and junk will be buried in the reserve pit and covered with a minimum of 24 inches of dirt. All waste material will be contained to prevent scattering by the wind.
 - G. All trash and debris will be buried or removed from the wellsite within 30 days after finishing drilling and/or completion operations.

8. ANCILLARY FACILITIES.

A. None required.

9. WELL SITE LAYOUT.

- A. Exhibit D shows the dimensions of the well pad and reserve pits, and the location of major rig components.
- B. The ground surface at the drilling location is sloping down toward the North. No cutting will be required to level the pad area, which will be covered with at least six inches of compacted caliche.

10. PLANS FOR RESTORATION OF THE SURFACE.

- A. After finishing drilling and/or completion operations, all equipment and other material not needed for further operations will be removed. The location will be cleared of all trash and junk, to leave the wellsite in as aesthetically pleasing a condition as possible.
- B. Unguarded pits, if any, containing fluids will be fenced until they have been filled.
- C. If the proposed well is non-productive, all rehabilitation and/or vegetation requirements of the Bureau of Land Management and the United States Geological Survey will be complied with and will be accomplished as expeditiously as possible. All pits will be filled and leveled within 90 days after abandonment.

11. TOPOGRAPHY.

- A. The wellsite and access route are located in a hilly area.
- B. The top soil at the wellsite is rocky.
- C. The vegetation cover at the wellsite is moderately sparse, with prairie grasses, some yucca, and miscellaneous weeds.
- D. No wildlife was observed but it is likely that rabbits, lizards, insects, and rodents traverse the area.
- E. There are no ponds, lakes, streams, or rivers within several miles of the wellsite.
- F. The wellsite is located on federal surface.
- G. There is no evidence of any archaeological, historical, or cultural sites in the vicinity of the location.

"EA" Federal Well Page 4

12. OPERATOR'S REPRESENTATIVES.

A. The field representatives responsible for assuring compliance with the approved surface use plan are:

Scott Davis	Ralph H. Viney
Rhonda Operating Company	Rhonda Operating Company
511 North Main	511 North Main
Midland, Texas 79701	Midland, Texas 79701
Phone: (915) 682-5346 (office)	Phone: (915) 682-5346 (office)
(915) 697-3812 (home)	(915) 683-1003 (home)

13. CERTIFICATION.

I hereby certify that I, or persons under my direct supervision, have inspected the proposed drillsite and access route; that I am familiar with the conditions which presently exist; that the statements made in this 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 Rhonda Operating Company and its contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved.

RHONDA OPERATING COMPANY SUMMARY

Drilling, Drill Stem Tests, Casing and Cementing Program

- 1. Drill 12-1/4" hole to 1600'.
- 2. Cement 8-5/8", 24# J-55 casing with Class "C" HOWCO "Thickset", followed by HOWCO Lite containing Gilsonite and Flocele, and tail in with Class "C" containing 2% CaCl₂ and Flocele. Run combination Guide-Shoe with an insert float valve. Weld first two joints of casing. Use wooden plug to displace cement.
- 3. Release pressure immediately, nipple up and install BOP's. Test casing to 600 psi after 12 hours and drill out cement.
- 4. Drill 7-5/8" hole to TD.
- 5. Cement 5-1/2", 15.5 & 17 # J-55 casing with Class "C". Run guide shoe and insert float on bottom joint, and 6-10 centralizers. Weld first few joints of casing. Use one wooden plug to displace cement.
- 6. Release pressure immediately, nipple up and install BOP's. Test casing to 1500 psi for 30 minutes after WOC 18 hours and drill out cement after 24 hours.
- Drill 7-7/8" hole to TD at 6250'. A fresh water mud system will be used to 5000'. At that point the system will be mudded up to 9.5-10#/gal. to obtain good samples.

DST flow periods and shut-in time will be determined on location. A mud logging unit will be on location at 5000' to assist in evaluating samples and shows for exact drill stem test intervals. Run Formation Logs.

- Run 5-1/2", 17# casing and cement. Use guide shoe and float collar and 18-24 centralizers where necessary. Use top and bottom rubber plugs, displace cement with clean, fresh water treated with 2% KCl and non-emulsifying agent (2 gals. NE per 1000 gals. water).
- 9. Perforations, acid job, and additional stimulation to be determined after completion.

H. Scott Davis Drilling Superintendent Rhonda Operating Company



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 \mathcal{S}^{*} Mapped, edited, and published by the Geological Survey

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HIBIT D

Rhonda Operating Company "EA" Federal Lease, Well #3 330' FNL & 380' FWL Section 12, T-18-S, R-27-E Eddy County, New Mexico



RIG PAD LAY OUT

DERRICK RIGS / CACTUS DRILLING COMPANY

RIG 67

PITS:



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EXHIBIT E

Rhonda Operating Company "EA" Federal Lease, Well #3 330' FNL & 380' FWL Section 12, T-18-S, R-27-E Eddy County, New Mexico



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MESA MUD	CO.	POST OFFICE BO	X5525 / MID	Rhonda Operating Company "EA" Federal Lease, Well #3 330' FNL & 380' FWL Section 12, T-18-S, R-27-E Eddy County, New Mexico LAND. TEXAS 79701 / (915) 682-6872
Company	Ralph Vi	ney & Associa	tes	Date 11-19-79
Well name & number _	Federa	l Lease		Proposed Depth 8500
Location <u>Se</u>	ction 12	Iwn.18 Range	27County Eddy	State <u>New Mexico</u>
Casing: Su	rf. <u>85</u>	/8 at 2750	Inter	Prod. 5 ¹ / ₂ at 3500
Depth	ENDED MUD Weight LB/Gal	PROPERTIES Viscosity Sec.	Filtrate	TREATMENT
0-2750	8.4	34-38	N.C.	Spud mud. Fresh water gel flocculated with Lime for desired viscosity.
2750-5600	8.4	Min.	N.C.	Fresh water, lime for PH 10-10.5. Paper for seepage.
5600-6000	8.4	Min.	N.C.	Cut brine, mud weight 8.6- 9.0 ppg, add 3-5% KCL to system.
6000- Total De	8.6-9.0 pth	32-34	8-10cc	Mud up with Drispac - starch. Treat total hardness down to 5 EPM with Soda Ash. Filtrate 10cc or less with Drispac (½-1ppb) and starch (3ppb).

Estimated cost for mud materials: <u>\$12,000. to \$14,000 without severe hole problems</u>. Recommended Program based Upon

The above recommendations are statements of opinion only, and are made without any warranty of any kind as to performance and without assumption of any liability by Mesa Mud Company., or its agents.



POST OFFICE BOX 5525 / MIDLAND, TEXAS 79701 / (915) 682-6872

November 20, 1979

Mud Program

0 - 2750 (2000)

Spud Mud. Fresh Water Gel Flocculated with Lime for desired viscosity to prevent hole wash out of the surface. Possible seepage in Water Sands 90', 200', and 350'.

2750 - 5600'

Fresh Water. Paper for seepage, Lime for PH. 10-10.5. At 5600 start adding KCL to system for 3-5% content and continue to total depth. Also, add Brine to system to raise mud weight to 8.8 - 9.0 ppg.

6000 - Total Depth

Suggest Mud-Up with Drispac - Starch. Treat total hardness to 5epm with Soda Ash (1-2ppb). Filtrate locc or less with Drispac (1/2-1ppb) and Starch (3ppb). If viscosity becomes necessary, add Salt Water Gel 10-12ppb and Sea Mud 3-4ppb.



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November 20, 1979

Casing Program

I. 8 5/8 at 2750 Set in lower San Andres.

II. 8 5/8 at 2000' Set in upper San Andres.

Suggest set casing in lower San Andres due to the water injection wells in the area.

Estimated Tops

Tansil	90
Yates	200
7 Rivers	380
Queen	1020
San Andres	1887
ABO	6200
Wolfcamp	6697
Penn	7590
Canyon	80 80
Strawn	8650

RICHARDSON, TEXAS 75080 P. O. BOX 1239 (214) 234-0102 HOBBS, NEW MEXICO P. O. BOX 2068 (505) 393-2146

CACTUS DRILLING COMPANY

905 SOUTH CECIL HOBBS, NEW MEXICO 88240

EXHIBIT G

Rhonda Operating Company "EA" Federal Lease, Well #3 330' FNL & 380' FWL Section 12, T-18-S, R-27-E Eddy County, New Mexico

> -1. J

RIG NO. 67

CAPACITY - 3,000' to 6,500'

98' LEE C. MOORE

CAPACITY 400,000#

DRAWWORKS:

NATIONAL T-32 POWERED BY TWO 6-71 GM TWIN DIESELS INPUT HORSEPOWER - 454

DERRICK:

SUBSTRUCTURE:

KB 12.00'

91

MUD PUMP: IDECO MM550F W/FORGED STEEL FLUID END 7-1/4" X 15" RATED H.P. - 550 POWERED BY D-379 CATERPILLAR 502 HORSEPOWER

B.O.P.: 10" CAMERON SS SERIES 900 DOUBLE HYDRAULIC W/PAYNE CLOSING UNIT

- WATER STORAGE: 500 BARRELS
- TRAILER HOUSE: 15' MOBILE HOME
- DRILL PIPE: 3-1/2" IF GRADE E

DRILL COLLARS: 6-1/2" X 31'

24 HOUR RADIO COMMUNICATION