·		•		
N.M. Oil	Cono Du			
1301 W	Cons. DIV-Dist. 2 Grand Avenue			
A mine - 1	· Grand Avenue			
Form 3160-3 (August 1999)	a, NM 88210		FORM APPROV OMB No. 1004-0	136
UNITED STATES	23,24, 00		Expires November 30	, 2000
DEPARTMENT OF THE I			5. Lease Serial No.	
BUREAU OF LAND MANA	(0	0000	<u>⊘</u> №–99011	
		2002 EIVED	6 If Indian, Allottee or Trib	e Name
1a Type of Work: X DRILL REENTE		ARTESIA		10
1b. Type of Well: 🔲 Oil Well 🖄 Gas Well 🗋 Other	Single Zone Multi	ple Zoneo	8. Lease Name and Well No. Chino 31 Feder	
2. Name of Operator	्व	.101	9. API Well No.	
	3032		30-035-2	20032
<sup>3a</sup> Address Taylor St Penthouse II	3b. Phone No. (include area code)		10. Field and Pool, or Exploratory	
Fort Worth, TX 76102	817-870-1483		Exploratory	
4 Location of Well (Report location clearly and in accordance with	any State requirements.*)		11. Sec., T., R., M., or Blk. an	d Survey or Area
Alsurface 780' FSL & 1691' FWL (Unit N	, SESW)			
At proposed prod. zone			Section 31-T24	
14 Distance in miles and direction from nearest town or post office* Approximately 34 miles northwest of	Dell City Texas		12. County or Parish Otero	13. State NM
15 Distance from proposed*	16. No. of Acres in lease	17 5000		
location to nearest property or lease line, ft.	1329.36'	17. Spacing	g Unit dedicated to this well	
			BIA Bond No. on file	
<ol> <li>Distance from proposed location* to nearest well, drilling, completed,</li> </ol>	19. Proposed Depth	20. BLM/E	SLA Bond No. on the	
applied for, on this lease, ft. N/A	7241'		0679796	
21. Elevations (Show whether DF, KDB, RT, GL, etc.)	22. Approximate date work will sta	יע <b>י</b>	23. Estimated duration	
4241' GR	ASAP after approva	1	20 days	
	24. Attachments			
The following, completed in accordance with the requirements of Onshe	ore Oil and Gas Order No.1, shall be at	tached to this	form:	
1. Well plat certified by a registered surveyor.	4. Bond to cover t	he operation	is unless covered by an existin	g bond on file (see
2. A Drilling Plan.	Item 20 above). 5. Operator certific			
3. A Surface Use Plan (if the location is on National Forest System SUPO shall be filed with the appropriate Forest Service Office).		specific info	ormation and/or plans as may	be required by the
25. Signature	Name (Printed/Typed)		Date !	
Mistin Ven	Rusty Klein		Au	g. 20, 2002
Agent for Threshold Development Com	pany			
Approved by (Signature)	Name (Printed/Typed) LICA ARM	i.B.	100%1 Date	W 21,2062
Title ASST FIED MGR	Office LCFO		·	
Application approval does not warrant or certify the the applicant holds operations thereon.	legal or equitable title to those rights in	the subject l	ease which would entitle the ap	plicant to conduct
Conditions of approval, if any, are attached.				
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make i States any false, fictitious or fraudulent statements or representations as	t a crime for any person knowingly ar to any matter within its jurisdiction.	nd willfully to	o make to any department or ag	sency of the United
*(Instructions on reverse)			<u></u>	

Cement to cover all oil, gas and water bearing zones.

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Bartella de BRA - tra CM DISTRICT I 1625 N. French Dr., Bobbs, NM 88240 DISTRICT II 811 South First, Artesia, NM 88210

State of New Mexico

Form C-102 Revised March 17, 1999

Energy, Minerals and Natural Resources Department

Submit to Appropriate District Office State Lease - 4 Copies Fee Lease - 3 Copies

DISTRICT III 1000 Rio Brazos Rd., Aztec, NM 87410 DISTRICT IV 2040 South Pacheco, Santa Fe, NM 87505

OIL CONSERVATION DIVISION 2040 South Pacheco Santa Fe, New Mexico 87505

□ AMENDED REPORT

#### WELL LOCATION AND ACREAGE DEDICATION PLAT API Number Pool Code Pool Name Wildcat **Property** Code **Property** Name Well Number CHINO 31 Federal 1 OGRID No. **Operator** Name Elevation 23032 THRESHOLD DEVELOPMENT COMPANY 4241 Surface Location UL or lot No. Section Township Lot ldn Feet from the Range North/South line Feet from the East/West line County 31 24 S N 18 E 780 1691' SOUTH WEST OTERO 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 Dedicated Acres Joint or Infill Consolidation Code Order No. 160 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 **OPERATOR CERTIFICATION** I hereby certify the the information contained herein is true and complete to the best of my knowledge and belief. NIS LOT 1 Signature Rusty Klein Printed Name Agent for Threshold Dev. Title August 20, 2002 Date SURVEYOR CERTIFICATION LOT 2 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 supervison and that the same is true and correct to the best of my belief. LAT-32"10'07.09"N LON-105'08'43.43"W MARCH 8, 2002 Date Surveyed LOT 3 Signature & Seal of A'Es Professional Surfeye 4243.8' 4220.7' 1691-7077 w No. 2365 4232.7 4245.4' 80 1 PAOFESSIONAL UNIT Certificate 7977 LOT 4 BASEN SURVEYS

MECENED

THRESHOLD DEVELOPMENT COMPANY Chino 31 Federal #1 780' FSL & 1691' FWL Section 31-T24S-R18E Otero County, New Mexico

1. The estimated tops of geological markers are as follows:

San Andres	Surface
Fusselman	4491'
Basement	5741'

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

Water: Nearest well reports fresh water at 268' to 278' Oil or Gas: All potential zones - Fusselman - 4491' (gas)

3. Pressure Control Equipment:

Shaffer 11" 3000 psi Type B with 2 3" openings below the rams, pipe rams and blind rams.

Shaffer 11" 3000 psi spherical annular preventor, choke manifold with 2 2" adjustable chokes plus 2" flow lines, float in drillpipe and TIW valve on floor

Auxiliary Equipment:

- A. Auxiliary Equipment: kelly cock, pit level indicators, flow sensor equipment and a sub with full opening valve to pit the drillpipe and collars will be available on the rig floor in the open position at all times for use when kelly is not in use.
- 4. Proposed Casing and Cementing Program:

A. Casing Program: (New or Used)

Hole Size	Casing Size	Wt./Ft.	Grade	Coupling	Interval
14-3/4"	11-3/4"	42#	H-40	ST&C	Surface - 600'
11"	8-5/8"*	32# & 24#	J-55	ST&C	Surface - 2000'
7-7/8"	5-1/2"	17# & 15.5#	∮ J <b>-</b> 55	LT&C	Surface - 7241'

\*Contingency only for loss circulation possibilities

B. Minimum Casing Design Factors: Collapse 4910 psi; Burst 5320 psi; Tensile Strength 55 THRESHOLD DEVELOPMENT COMPANY Chino 31 Federal #1 Page 2:

Proposed Casing and Cementing Program Continued:

C. Cementing Program:

Surface Casing: Lead with 65-35-6 Poz C with 1/4#/sack celloflake and 2% CaCl2. Tail with 250 sacks Class C with 2% CaCl2 and 1/4#/sack celloflake. Displaced with wooden plug and water.

Intermediate Casing: Lead with 65-35-6 Poz H with additives based on hole conditions. Tail with 250 sacks Class H with additives based on hole conditions. Fill to inside of surface casing.

Production Casing: Class "H", 10% salt and dispersants, fluid loss additives and retarders based on bottom hole temperature (16.0). Cement volume based on caliper + 25% excess. Cement top based on potential pay zones.

5. Mud Program and Auxiliary Equipment:

Interval	Туре	Weight	Viscosity	Fluid Loss
0-600'	Water	8.4	Water	No control
600-2000'	Fresh	9.0	35 sec/qt.	No control
2000-4000'	Fresh & Cut brine	9.5	45 sec/qt.	Less than 14 ml
4000-TD	Brine	9.9+	55 sec/qt.	Less than 10 ml

Sufficient mud material(s) to maintain mud properties, control lost circulation and contain a blow out will be available at the wellsite during drilling operations. Mud will be checked hourly by rig personnel.

6. Evaluation Program:

Samples: 1 dry cut, 1 wet cut every 30' to geologist's request; then every 10' to TD

Logging: FDC/CNL (Schlumberger platform express triple combo), Gamma Ray, Sonic long space full wave form induction log, PE, Dual Laterolog, SP if fresh mud

Coring: Side-wall core at direction of wellsite geologist

DST's: DST as needed to evaluate shows. RT after logging to evaluate reservoir.

7. Abnormal Conditions, Bottom Hole Pressure and Potential Hazards:

Anticipated BHP:

From 3250' to 5200', anticipated max BHP 1100 psig - 1750 psig From 5200' to 7241', anticipated max BHP 2080 psig - 2890 psig

Abnormal Pressures Anticipated: None

THRESHOLD DEVELOPMENT COMPANY Chino 31 Federal #1 Page 3:

7. Abnormal Conditions, Bottom Hole Pressure and Potential Hazards continued:

Lost Circulation Zones Anticipated: Possibly at 1850'

H2S Zones Anticipated: None

Maximum Bottom Hole Temperature: 175°F

8. Anticipated Starting Date:

Plans are to drill this well as soon as possible after receiving approval. It should take approximately 20 days to drill the well with completion taking another 30 days.

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MULTI-POINT SURFACE USE AND OPERATIONS PLAN Threshold Development Company Chino 31 Federal #1 780' FSL & 1691' FWL Section 31-T24S-R18E Otero County, New Mexico

▶ = **|** | |

This plan is submitted with Form 3160-3, Application for Permit to Drill, 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 the 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 effect associated with the operations.

1. EXISTING ROADS:

Exhibit A; is a portion of the BLM map showing the well and roads in the vicinity of the proposed location. The proposed wellsite is located approximately 34 miles northwest of Dell City, Texas. The access route to the location is indicated in red and green on Exhibit A2. (Blue on frequel)

### **DIRECTIONS:**

From the intersection of Highway 506 and County Road G-4, turn left (west) on G-4 and continue west on G-4 for approximately 6 miles. Turn left (south) onto a two track road that has been upgraded going south and southwest for approximately 1-1/2 mile to where it intersects with the main gravel road. Turn left (southwest) onto main gravelled road and continue on for approximately .3 of a mile. Proposed road to location will start here going easterly and northeasterly for approx. 2-1/2 miles to the southwest edge of the location.

- 2. PLANNED ACCESS ROAD:
  - A. The proposed new access will be approximately 2-1/2 miles in length from the point of origin to the southwest corner of the drilling pad. The road will lie in an easterly, northeasterly and southeasterly direction.
  - B. The new road will be 14 feet in width (driving surface) and will be adequately drained to control runoff and soil erosion.
  - C. Existing roads will be maintained in the same or better condition.
- 3. LOCATION OF EXISTING WELL:
  - A. There is no drilling activity within a one-mile radius of the wellsite.
- 4. LOCATION OF EXISTING AND/OR PROPOSED FACILITIES:
  - A. There are no production facilities on the wellsite at this time.
  - B. In the event that the well is productive, the necessary production facilities will be installed on the drilling pad. If the well is productive oil, a gas or diesel self contained until will be used to provide the necessary power. No power will be required if the well is productive of gas.

THRESHOLD DEVELOPMENT COMPANY Chino 31 Federal #1 Surface Use & Operations Plan 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 Exhibit Al & A2.
- 6. SOURCE OF CONSTRUCTION MATERIALS:

Dirt contractor will locate nearest pit and obtain any permits and materials needed for construction.

- 7. METHODS OF HANDLING WASTE DISPOSAL:
  - A. Drill cuttings will be disposed of in the reserve pit.
  - B. Drilling fluids will be allowed to evaporate in the reserve pit until the pits are dry.
  - C. Water produced during operations will be collected in tanks until hauled to an approved disposal system, or separate disposal application will be submitted.
  - 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. All trash, junk, and other waste materials will be contained in trash cages or bins to prevent scattering and will be removed and deposited in an approved sanitary land fill. Burial on site is not approved.
- 8. ANCILLARY FACILITIES: none
- 9. WELLSITE LAYOUT:
  - A. Exhibit C shows the relative location and dimensions of the well pad, the reserve pits, the location of the drilling equipment, rig orientation and access road approach.
  - B. The reserve pits will be plastic lined.
  - C. A 400' X 400' area has been staked and flagged.
- 10. PLANS FOR RESTORATION:
  - A. After finishing drilling and/or completion operations, all equipment and other materials not needed for further operations will be removed. The location will be cleaned 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 dried and been levelled.
  - 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 level after they have evaporated and dried.

THRESHOLD DEVELOPMENT COMPANY Chino 31 Federal #1 Surface Use & Operations Plan Page 3:

11. SURFACE OWNERSHIP: Federal surface - administered by the Bureau of Land Management

GRAZING LESSEE: Pete Lewis P. O. Box 368 Dell City, TX 79837

- 12. OTHER INFORMATION:
  - A. Topography: Refer to the existing archaeological report for a description of the topography, flora, fauna, soil characteristics, dwellings, historical and cultural sites.
  - B. The primary surface use is for grazing.
- 13. OPERATOR'S REPRESENTATIVE:
  - A. Through APD Approval: Rusty Klein, Consultant Koyote Konsulting Services Agent for Threshold Development Company P. O. Box 1491 Artesia, NM 88211-1491 O: 505-746-6565 Cellular: 505-365-4245
  - B. Through Drilling, Completions and Production: Gary Tidmore, Land Manager Threshold Development Company 777 Taylor Street - Penthouse II Fort Worth, TX 76102 0: 817-870-1483
- 14. 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 Threshold Development Company 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.

20,2003

Rusty Klein Consultant

Kusuy Klezn, Consultant Koyote Konsulting Services Agent for Threshold Development Company





THRESHOLD DEVELOPMENT COMPANY Chino 31 Federal #1 780' FSL & 1691' FWL of Section 31-T24S-R18E Otero Co., NM

Located at 780' FSL and 1691' Exhibit A2 Red - exist N.M.P.M., Otero County, New Mexico.

Exhibit A2 Red - existing road; Green upgrade; Orange - proposed road C.O.

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Surveys
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P.O. Box 1786	W.C. Number - 2549AA - KJG CD#5	тны
1120 N. West County Rd. Hobbs, New Mexico 88241	Survey Date: 06-06-2002	DEVEL
(505) 393-7316 - Office (505) 392-3074 - Fax	Scale: 1" = 2000'	
basinsurveys.com	Date 06+05+2002	CON

THRESHOLD EVELOPEMENT COMPANY



THRESHOLD DEVELOPMENT COMPANY Chino 31 Federal #1 780' FSL & 1691' FWL Section 31-T24S-R18E Otero County, New Mexico

Exhibit B

Chino 31 Federal #1 780' FSL & 1,691' FWL Sec 31 T24S R18E Otero County, New Mexico

**Drilling Rig Location Schematic** 



THRESHOLD DEVELOPMENT COMPANY Chino 31 Federal #1 780' FSL & 1691' FWL Section 31-T24S-R18E Otero County, New Mexico

Exhibit C

SECTION 31, TOWNSHIP 24 SOUTH, RANGE 18 EAST, N.M.P.M., OTERO COUNTY, NEW MEXICO.







not to scale

Exhibit F

## LIST OF ATTACHMENTS

# THRESHOLD DEVELOPMENT COMPANY Chino 31 Federal #1 780' FSL & 1691' FWL Section 31-T24S-R18E Otero County, New Mexico

Exhibit Al	BLM map showing area of location & roads
Exhibit A2	BLM map showing proposed road into location
Exhibit B	BOP Diagram
Exhibit C	Location Layout
Exhibit D	Survey Diagram
Exhibit E	Lease Map
Exhibit F	Diagram of proposed casing strings

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