345678970 130	1 W. I	ons. Div-E Grend Ave , NPC 1983	- Alter			CISF
Form 3160-3 (August 1999) C OCD - ARTESIA C DEPARTMENT OF THE IN C DEPARTMENT OF THE IN C DEPARTMENT OF LAND MANAG APPLICATION FOR PERMIT TO DR	EMENT	EENTER		OMB No. Expires Nove 5. Lease Serial No. 6. If Indian, Allottee		
1a. Type of Work: 🖄 DRILL	2			7. If Unit or CA Agre	ement, Name a	pd No.
<u>SEDIAL MAR. P.J. Teld, Ste. 105</u> TX 77201 4. Location of Well (Report location clearly and in accordance with a	3b. Phone N	ingle Zone $\Box$ Multi o. (include area code) (	iple Zone	8 Lease Name and W -9. API Well No. -9. API We	12 100	y or Area
At surface 1980 1-54 \$ 660 FED At proposed prod. zone 1980 1-54 States	/ <b>I</b>	J.I.		in 12 7-20	10-Po	loc
14. Distance in miles and direction from nearest town or post office*	<u> </u>			12. County or Parish	13.	State
15. Distance from proposed*	16 No of	Acres in lease	17 Spacin	I C CICI y 1g Unit dedicated to this v	/ (	<u>.p.  </u>
IS. Distance from proposed location to nearest property or lease line, ft. (Also to nearest drig, unit line, if any)	16. 160		- 32			
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft.	19. Propos	ed Depth	20. BLM/	BIA Bond No. on file $ \int \frac{\partial U}{\partial t} = 2 \cdot \frac{1}{2} $	,	
21. Elevations (Show whether DF, KDB, RT, GL, etc.)	22. Approx	imate date work will st	art*	23. Estimated duration	<del></del>	
33/0 'ER	12/0	1 SCG2		30 days	<u> </u>	
		chments				
The following, completed in accordance with the requirements of Onshore	: Oil and Gas	Order No.1, shall be at	ttached to thi	s form:		
1. Well plat certified by a registered surveyor.				ns unless covered by an	existing bond	on file (see
<ol> <li>A Drilling Plan.</li> <li>A Surface Use Plan (if the location is on National Forest System I SUPO shall be filed with the appropriate Forest Service Office).</li> </ol>	Lands, the	Item 20 above). 5. Operator certifie 6. Such other site authorized offic	cation. specific inf	formation and/or plans a	s may be requ	ired by the
25. Signature	Name	(Printed/Typed)	h://	· · · · · · · · · · · · · · · · · · ·	Date 10/D/C	 ./
Tide the start						
Approved by (Signature) /S/ JOE G. LARA	Name	e (Printed/Typed)	/S/ J(	DE G. LARA	Date NOV 0	4 2002
FIELD MANAGER	Offic	CARLOD				o conduct
Application approval does not warrant or certify the the applicant holds leg operations thereon. Conditions of approval, if any, are attached.	gal or equitat					
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a States any false, fictitious or fraudulent statements or representations as to	a crime for a any matter v	ny person knowingly an vithin its jurisdiction.	nd willfully	to make to any department	nt or agency of	the United
*(Instructions on reverse)			0000		***	
Carlsbad Controlled Water Basin		G	ENER	<b>AL SUBJECT</b> NL REQUIREM L STIPULATIO IED	ENTS A	ND

-

DISTRICT I P.O. Box 1980, Hodds, NM 88241-1980

DISTRICT II P.O. Drawer DD, Artesis, NM 88211-0719

DISTRICT IV

DISTRICT III 1000 Rio Brazos Rd., Aztec, NM 87410

# WELL LOCATION AND ACREAGE DEDICATION PLAT

P.O. BOX 2088, SANTA FE, N.M. 87504-208	WELL LOCATION AND	ACREAGE DEDICATION	PLAI	□ AMENDED REPORT		
API Number	Pool Code		Pool Name			
Property Code	Proj	perty Name		Well Number		
	TROPICANA	12 FED COM		1		
OGRID No.	-	Operator Name DISCOVERY OPERATING, INC				

#### Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
l	12	20-S	26-E		1980	SOUTH	660	EAST	EDDY

#### 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 320	Joint o	r Infill C	onsolidation (	Code Ord	der No.	<u></u>	I	L	L

#### 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.
	 		Signature Signature Stacre Campbell Printed Name Charles in fissister 7 Title J
 , ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	SURVEYOR CERTIFICATION
		3310.2'3310.0'	I hereby certify that the well location shown on this plat was plotted from field nates of actual surveys made by me or under my supervison, and that the same is true and correct to the best of my belief.
		3307.7' 3308.2'	JUNE 10, 2002 Date Surveyred Willing AWB Signature & Seaf of Professional Surveyor
		1980	Ametel 6100 6/14/02 Loz. 17.0425
			Centificate No. RONALD FEIDSON 3239 GARY EDSON 12641

State of New Mexico Energy, Minerals and Natural Resources Department

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

OIL CONSERVATION DIVISION P.O. Box 2088

Santa Fe, New Mexico 87504-2088

#### United States Department of the Interior

#### BUREAU OF LAND MANAGEMENT Roswell Resource Area 2909 W. 2<sup>nd</sup> St. Roswell, New Mexico 88201

#### Statement Accepting Responsibility for Operations

Operator name:	Discovery Operating, Inc.
Street or Box :	800 N. Marienfeld, Suite 100
City, State :	Midland, Texas
Zip code, :	<b>7970</b> 1

The undersigned accepts all applicable terms, conditions, stipulations, and restrictions concerning operations conducted on the leased land or portion thereof, as described below:

Lease No. : NM 05110-A

1980' FSL & 660' FEL
Sec. 12, T-20-S, R-26-E
Eddy County, NM

Formation (s) (if applicable): Wildcat McMillian Morrow

Bond Coverage: (State if individually bonded or another's bond) Statewide

BLM Bond File No.: 3104 (943c-3st)

Authorized Signature :

2. Jeffer Sparks

Title :

Vice President

Date : 10/2/02.

# SUPPLEMENTAL DRILLING DATA

Discovery Operating, Inc. Tropicana 12 Fed Com

#### 1. Surface Formation: Quaternary

 2.
 Estimated Tops of Geological Markers:

 Queen (620')
 Penn Shale (8150')

 Grayburg (900')
 Strawn (9060')

 San Andres (1570')
 Atoka (9615')

 Bone Spring (2530')
 Morrow (9850')

 Wolfcamp (7815')
 Mississippian (10,370')

#### 3. Anticipated Possible Water and Hydrocarbon Bearing Zones:

Fresh Water – above 300'Atoka – HydrocarbonWolfcamp – HydrocarbonMorrow – HydrocarbonStrawn - HydrocarbonMorrow – Hydrocarbon

#### 4. Proposed Casing and Cementing:

<b>Casing Size</b>	From	To	<u>Wt</u>	Grade	<u>e Joint</u>
133/8"	0	500	<b>48</b> #	H-40	ST&C
9 <sup>5</sup> /8"	0	2,900	40#	J-55	ST&C
51/2"	0	10,500	17#	N-80	LT&C

13<sup>3</sup>/<sub>8</sub>" casing will be cemented with sufficient cement to circulate. 9<sup>5</sup>/<sub>8</sub>" casing will be cemented with sufficient cement to circulate. 5<sup>1</sup>/<sub>2</sub>" casing will be cemented with sufficient cement to bring the top to 6,500'.

#### 5. Pressure Control Equipment:

Blowout preventer equipment will consist of a Shaffer LWS hydraulic double 11" x 5000 psi. A Shaffer 11" x 5000 psi Choke manifold 4" x 5000 psi flanged connections. Koomey 8-station accumulator closing unit with remote control.

A sketch of the BOP stack is attached.

#### 6. Circulating Medium:

Surface to 500': Fresh water mud (8.9 – 9.2) 500' to 2,900': Salt water mud (10.0) 2,900' to 7,500': Fresh water mud (8.7 – 8.9) 7,500' to 10,500': Salt water mud (10.2+)

# 7. Auxiliary Equipment:

Drill string safety valves will be maintained on the rig floor in the open position while drilling operations are in progress.

# 8. Testing, Coring and Logging Programs:

Drill Stem tests will be made if sample data and drilling rate are sufficient to indicate a test is warranted.

It is planned that electric logs will include a sonic, neutron, density and resistivity.

No coring is planned.

### 9. Abnormal Pressures, Temperatures, or Hydrogen Sulfide Gas: No abnormal pressures, temperatures or H<sub>2</sub> S is expected.

**10.** Anticipated Starting Date: 12/01/2002

# · · · · ·

# **BLOWOUT PREVENTERS**

One Shaffer LWS hydraulic double 11" x 5,000 p.s.i. One Shaffer 11" x 5,000 p.s.i. Choke manifold 4" x 5,000 p.s.i. flanged connections. Koomey 8-station accumulator closing unit with remote control.



#### SURFACE USE AND OPERATIONS PLAN

Discovery Operating, Inc. Tropicana 12 Fed Com 1980' FSL & 660' FEL Sec. 12, T-20-S, R-26-E Eddy County, New Mexico

Located: 11 miles NW of Carlsbad, NM

Federal Lease Number: NM 05110-A

Lease Issued: 11/01/1951

<b>Record Lessee:</b>	Sharbro Oil Ltd. Co.	16.6667%
	Yates Drilling Co.	66.6667%
	Lillie M. Yates Estate	16.6666%

Acres in Lease: 160.00

Surface Ownership: Bureau of Land Management

Grazing Permitee: None

**Pool:** McMillian Morrow

Pool Rules: Statewide rules

Attachments:	А. В.	General Road Map Plat Showing Existing Wells and Roads
	C. D.	Drilling Rig Layout Topo Plat

#### 1. Existing Roads:

a. Attachment A is a portion of a road map showing the location of the proposed well as it is staked. Travel north out of Carlsbad on Canal Road (1208) which then turns into Illinois Camp Road (C-206). Turn left at Lake Road (C-34) and go northwesterly approximately 7.8 miles where the Tropicana 12 Fed Com #1 lies approximately 390 feet north from Lake Road.

b. Attachment B is a plat showing existing roads in the vicinity of the well site.

c. We will be converting portions of un-maintained ranch road to caliche road as detailed below.

#### 2. Planned Access Road:

a. <u>Length and Width</u>: Access road will require 131 feet of new caliche road that extends from the southern boundary of the pad south131 feet to paved County Road 34 (Lake Road). This road will be 12 feet wide. The road has been staked.

b. <u>Surfacing Material</u>: Will be material found in place. If that material is found to be inadequate, then six inches of caliche, watered, compacted and graded will be used.

- c. <u>Maximum Grade</u>: None.
- d. Turnouts: None.
- e. <u>Drainage Design</u>: The new road will be crowned with drainage to both sides.
- f. <u>Culverts</u>: None required.
- g. Cuts and Fills: Does not apply
- h. <u>Gates and Cattle Guards</u>: No new cattle guards will be required.

#### 3. Location of Existing Wells:

a. Existing wells in the immediate area are shown on Attachment B.

#### 4. Location of Existing and/or Proposed Facilities:

a. Necessary production facilities for this well will be located on the well pad.

#### 5. Location and Type of Water Supply:

a. Water will be trucked.

#### 6. Source of Construction Materials:

a. It is planned to use material found in place for construction. If this material is inadequate, then caliche will be used.

#### 7. Methods of Handling Waste Disposal:

- a. Drill cuttings will be disposed of in the drilling pits.
- b. Drilling fluids will be allowed to evaporate in the drilling pits until the pits are dry.
- c. Water produced during tests will be disposed of in the drilling pits. Oil produced during tests will be stored in tanks until sold.
- d. Current laws and regulations pertaining to the disposal of human waste will be complied with.
- e. Trash, waste paper, garbage and junk will be collected in trash trailers and disposed of offsite. - IN AN APPROVED SANITARY LANDFILL (I) NO! (52)
- f. 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.

### 9. Well Site Layout:

- a. Attachment C shows the relative location and dimensions of the well pad, mud pits, reserve pits, trash pit and the location of the major rig components.
- b. Necessary cut and fill will be very minor. Clearing and leveling of the well will be required.
- c. The pad and pit area have been staked and flagged.

### 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 will be cleaned of all trash and junk to leave the well site in an as aesthetically pleasing condition as possible.
- b. Any unguarded pits containing fluids will be fenced until they are filled.
- c. After abandonment, all equipment, trash and junk will be removed and the well site cleaned. Any special rehabilitation and or special re-vegetation requirements of the surface management agency will be complied with and accomplished as expeditiously as possible.

#### 11. Other Information:

- a. <u>Topography</u>: The land surface at the well site is native grass with a regional slope being to the west.
- b. Soil: Top soil at the well site is flat silty loam with limestone rocks.
- c. <u>Flora and Fauna</u>: The vegetative cover is consistent with the Chihuahuan Desert Scrub, including creosote, mesquite, yucca, desert sumac, Christmas cholla, and various grasses. Average visibility was 65 percent due to the vegetative cover.
- d. <u>Ponds and Streams</u>: Brentley Lake is northwest of location.
- e. <u>Residences and other Structures</u>: There are no occupied dwellings or windmills within 2 miles of the drill site.
- f. Archaeological, Historical and Cultural Sites: None observed in the area.
- g. Land Use: Grazing.
- h. Surface Ownership: Federal

#### 12. Operators Representative:

The representative responsible for assuring compliance with the approved Surface Use Operations Plan is:

Kevin D. Sparks Discovery Operating, Inc. 800 N. Marienfeld, Suite 100 Midland, TX 79701 Office Phone: (915) 683-5203 Home Phone: (915) 699-6948

### 13. Certification:

I hereby certify that I, or persons under my direct supervision have inspected the proposed drill site and access route; that I am familiar with the conditions that 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 Discovery Operating, Inc. and its contractors and sub-contractors in conformity with this plan and the terms and conditions under which it is approved.

Date

Kevin D. Sparks Discovery Operating, Inc.

VICINITY MAP



SCALE: 1" = 2 MILES

JOHN WEST SURVEYING HOBBS, NEW MEXICO ATTACHMENT A Discovery Operating, Inc. Tropicana 12 Fed Com 1980' FSL & 660' FEL Sec. 12, T-20-S, R-26-E Eddy County, New Mexico





ATTACHMENT C Discovery Operating, Inc. Tropicana 12 Fed Com 1980' FSL & 660' FEL Sec. 12, T-20-S, R-26-E Eddy County, New Mexico

# LOCATION VERIFICATION MAP



Tropicana 12 Fed Com 1980' FSL & 660' FEL Sec. 12, T-20-S, R-26-E Eddy County, New Mexico