

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENTSUBMIT IN TRIPLICATE\*  
(Other instructions on  
reverse side)FORM APPROVED  
OMB NO. 1004-0136  
Expires: February 28, 1995

## APPLICATION FOR PERMIT TO DRILL OR DEEPEN

1a. TYPE OF WORK <b>DRILL</b> <input checked="" type="checkbox"/> <b>DEEPEN</b> <input type="checkbox"/>		5. LEASE DESIGNATION AND SERIAL NO. <u>JM 94087</u>
b. TYPE OF WELL OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER <input type="checkbox"/> SINGLE ZONE <input type="checkbox"/> MULTIPLE ZONE <input type="checkbox"/>		6. IF INDIAN, ALLOTTEE OR TRIBE NAME
2. NAME OF OPERATOR <b>Nadel and Gussman Permian L.L.C.</b>		7. UNIT AGREEMENT NAME
3. ADDRESS AND TELEPHONE NO. <b>601 N. Marienfeld Suite 508, Midland, Texas 79701</b>		8. FARM OR LEASE NAME, WELL NO. <b>Oasis "15" Federal #1</b>
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.) At surface <b>1330' FSL, 1980' FWL, Unit Letter K</b> At proposed prod. zone <b>same</b>		9. API WELL NO. <b>30-005-21170</b>
14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE* <b>10 miles West of Caprock, NM &amp; 40 miles East of Roswell, NM</b>		10. FIELD AND POOL, OR WILDCAT <b>Wildcat Miss.</b>
15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drig. unit line, if any) <b>1330'</b>	16. NO. OF ACRES IN LEASE <b>640</b>	11. SEC., T., R., M., OR BLK AND SURVEY OR AREA <b>15 - T10S - R30E</b>
18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT. <b>na</b>	19. PROPOSED DEPTH <b>9,900</b>	12. COUNTY OR PARISH <b>Chaves</b>
21. ELEVATIONS (Show whether DF, RT, GR, etc.) <b>4104' GL</b>		13. STATE <b>New Mexico</b>
20. ROTARY OR CABLE TOOLS <b>rotary</b>		17. NO. OF ACRES ASSIGNED TO THIS WELL <b>320</b>
22. APPROX. DATE WORK WILL START* <b>02/15/01</b>		

23. PROPOSED CASING AND CEMENTING PROGRAM				
SIZE OF HOLE	GRADE, SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
17-1/2"	13-3/8", H-40	48#	500'	500 sx, circulated to surface
12-1/4"	9-5/8, J-55	40#	2500'	750 sx, circulated to surface
7-7/8"	5-1/2", N-80 *	17#, 20#	9,900'	1000 sx, TOC @ 5000' **

The operator proposes to drill to a depth sufficient to test the Atoka formation. If productive, 5-1/2" casing will be set at TD and cemented to approximately 5,000'. If non-commercial, the well will be plugged in accordance with federal regulations. A 5000# tree will be nipped up prior to perforating.

\* Secondary objectives are the Atoka and Abo formations.

\*\* May use more cement to cover uphole zones if prospective or set a DV tool above the Abo.

## Attachments:

Surface use and operating plans  
Statement Accepting Responsibility for Operations  
BOP and choke schematics  
lease, road, pipeline and topogr:  
H2S drilling operations plan  
wellsite and rig layouts  
certified location plats

APPROVAL SUBJECT TO  
GENERAL REQUIREMENTS AND  
SPECIAL STIPULATIONS

OPER. OGRID NO. 155615  
PROPERTY NO. 28316  
POOL CODE ✓  
EFF. DATE 7-10-01  
API NO. 30005-21170

IN ABOVE SPACE DESCRIBE PROGRAM  
deepen directionally, give pertinent data o

zone and proposed new productive zone. If proposal is to drill or  
this. Give blowout preventer program, if any.

24.

SIGNED

TITLE **R. McNaughton -Operations Engineer**

DATE

**1-10-01**

(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.  
CONDITIONS OF APPROVAL, IF ANY:

APPROVED BY

**/S/LARRY D. BRAY**

TITLE

**Assistant Field Manager,  
Lands And Minerals**

DATE

**JUL 09 2001****\*See Instructions On Reverse Side****APPROVED FOR 1 YEAR**

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 United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

RECEIVED  
Hobbs  
000

RECEIVED

JAN 11 '00

RLM  
ROSWELL, NM

DISTRICT I  
1625 N. French Dr., Hobbs, NM 88240

DISTRICT II  
811 South First, Artesia, NM 88210

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

DISTRICT IV  
2040 South Pacheco, Santa Fe, NM 87505

State of New Mexico  
Energy, Minerals and Natural Resources Department

Form C-102  
Revised March 17, 1999

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

OIL CONSERVATION DIVISION

2040 South Pacheco  
Santa Fe, New Mexico 87504-2088

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number <b>30-005-21170</b>	Pool Code <b>✓</b>	Pool Name <b>WILDCAT MISSISSIPPIAN</b>
Property Code <b>28316</b>	Property Name <b>OASIS "15" FEDERAL</b>	Well Number <b>1</b>
OGRID No. <b>155615</b>	Operator Name <b>NADEL AND GUSSMAN PERMIAN, L.L.C.</b>	Elevation <b>4104'</b>

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
<b>K</b>	<b>15</b>	<b>10 S</b>	<b>30 E</b>		<b>1330</b>	<b>SOUTH</b>	<b>1980</b>	<b>WEST</b>	<b>CHAVES</b>

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 <b>320</b>	Joint or Infill	Consolidation Code	Order No.						

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

	<b>OPERATOR CERTIFICATION</b>  I hereby certify the the information contained herein is true and complete to the best of my knowledge and belief.   Signature <b>Robert McNaughton</b> Printed Name <b>Operations Engineer</b> Title <b>1-10-01</b> Date
	<b>SURVEYOR CERTIFICATION</b>  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.  <b>November 14, 2000</b> Date Surveyed  Signature & Seal Professional Surveyor <b>W.O. No. 06229</b> Certificate <b>7977</b>

BASIN SURVEYS

NADEL AND GUSSMAN PERMIAN, L.L.C.  
601 N. Marienfeld, Suite 508  
Midland, TX 79701  
Office: (915) 682-4429  
Fax: (915) 682-4325

January 10, 2001

Bureau of Land Management  
Lands & Minerals  
2909 W. Second St.  
Roswell, New Mexico 88201

Ms. Linda Askwig,

Nadel and Gussman Permian, as operator, requests permission to drill the Oasis "15" Federal No. 1 well. The proposed location at is 1330' FSL, 1980' FWL, Unit Letter K, Sec 15, T-10-S, R-30-E in Chaves County, NM. The following items are attached:

1. 13 Point Surface Use and Operation Plan,
2. 13 Point Drilling Plan,
3. Lease Responsibility Statement,
4. BOP and Choke Diagrams,
5. Lease and Topographical Maps,
6. Archeological Survey and
7. Location Photographs.

**Please note that this application covers the drilling only and not the flowline. We are looking at several gas transmission and processing options but we have not chosen one yet.**

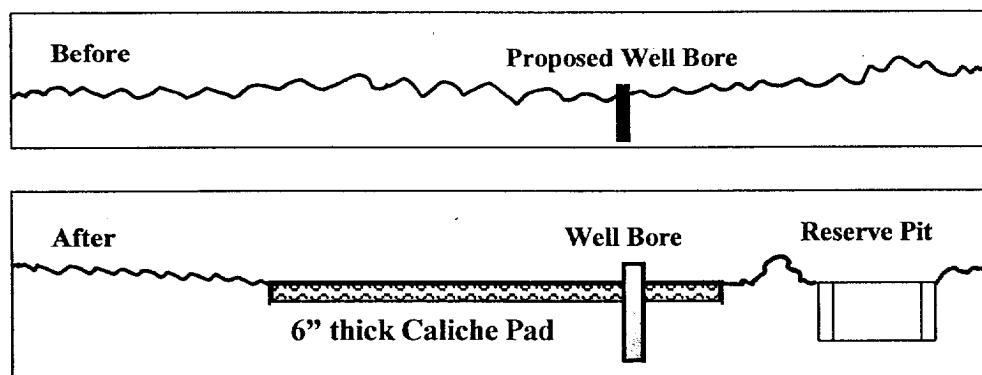
There are no archeological or environmental problems at this site. If you have any questions, contact Robert McNaughton at 915- 682- 4429.



### **13 Point Land Use Plan**

1. **Existing Roads** - A highway map (**Exhibit #1**) shows the location of this well in relation to US 380. The well site is approximately 40 miles east of Roswell and 10 miles west of Caprock. A larger topographical map is (**Exhibit #2**) shows the location of the well in relationship to the existing county road.
2. **Planned Access Roads** - We propose a 1200' caliche road which is shown on **Exhibits #3 & #4**. No cattle guards or gates will be needed since this is unfenced grazing land.
3. **Location of Existing Wells** - This is the first well on a new lease. The nearest offset producer is a shut in gas well approximately 2 miles to the north. There are no wells presently being drilled within a two-mile radius.
4. **Location of Tank Batteries, Production Facilities & Lines** -
  - Battery - we anticipate gas production from the Atoka and Abo, with minimal produced oil or water. We will build a battery with two 210 Bbl steel tanks, one for oil and one for water. We will also have a Stack-Pack separator on location.
  - Water Disposal - all produced fluids will be hauled off lease by road. There are no plans for oil pipelines, LACT units or SWD lines.
  - Gas Pipeline - this application covers the drilling location only, not the gas pipeline. We are evaluating a number of transmission options but have not chosen one yet.
  - Electrical - we do not anticipate a need for electrical service on the lease at this time.
5. **Location & Type- of Water Supply** - Fresh and salt water will be trucked in from Roswell or Tatum by a third-party contractor.
6. **Source of Construction Material** - Primary source of caliche will be the reserve pit area of the new drilling location. There are several alternate caliche pits in the area. Pits will be designated after consulting with the BLM specialists and paying the proper mineral royalties.
6. **Methods of Handling Waste Disposal** - Enclosed drill site plat (**Exhibit #5**) indicates location of drilling pits, reserve pit & trash trailer. After sufficient time has elapsed to allow drilling fluids to dry, all pits will be closed and leveled. All trash and debris will be removed from the location.
7. **Ancillary Facilities** - There are no camps or airstrips planned.
8. **Well Site Layout** - The well site (see NMOCD C-102 Form) has been staked and is also indicated on the enclosed maps (**Exhibits #2, #3 & #4**). The drilling site is a sand dunes area, covered by sparse native vegetation (see color photos). The drilling pad will be covered with 6" caliche with measurements as per attached drawing.

Cross section – Before and After is shown below:



9. Plans for Restoration of Surface – Commercial Well:

- Reshaped Topography – Rubbish will be hauled off upon completion of drilling operations. All future rubbish will be removed by the subcontractor generating same.
- Caliche Pad – Caliche drilling pad will remain intact until well is abandoned.
- Road – The road will remain intact as long as there is production on the lease.
- Timetable – This well is expected to produce for several years
- Plans for Restoration of Surface – Plugged and Abandoned Well:  
Surface will be restored in accordance with all regulations in effect at the time of abandonment.

10. Other Information –

- Topography – generally rough sand dunes with some grass and dispersed bushes.
- Soil Characteristics – unconsolidated sand.
- Flora – sparse grass and weeds
- Fauna – rabbits, mice, rats, birds and snakes. This are is subject to stipulations for prairie chickens and endangered sand lizards.
- Other Surface Use Activities – leased grazing land.
- Surface Ownership – US Government
- Water Wells – none known within a 1 mile radius of the location
- Lakes, Streams, Ponds – None known within two miles of the location. Preferential surface drainage is to the southwest. In the event of a spill, it is unlikely that any produced fluid will reach any navigable waters of the US. However, a firewall will be built around the battery and, if necessary, a separate SPCC plan will be prepared under Federal guidelines: 40 CFR Sections 109, 110, 113 and 114 and Section 311 of the Clean Water Act.
- Dwellings – None in the immediate area.

- Archaeological Sites – none based on the survey run by Southern New Mexico Archeological Services, Inc. over the proposed location and proposed road.. Cultural Resource Use Permit Holder suggests clearance for this drilling operation.
- Historical Sites – none
- Cultural Sites - none

11. Operator's Representative -


Gordon Barker - -----Mobile Phone - (915) 277-0294  
Drilling Engineer      Pager      (915) 498-1210

Robert McNaughton ---Office Phone      (915) 682-4429  
Production Engineer      Mobile Phone - (915) 277-0363  
                                         Home Phone      (915) 694-2553

Ernie Little -----Mobil Phone      (505) 390-9472  
Foreman      Home Phone      (505) 392-4907

12. Other facets: none

13. Certification - I hereby certify that I, or persons under my direct supervision, have inspected the proposed drilling site and access route; that I am familiar with the condition which presently exists; 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 Curt's Construction Company or their contractors and sub-contractors in conformity with this plan

  
-----  
Robert McNaughton  
Operations Engineer

### **13 Point Drilling Plan:**

1. Location: 1330' FSL & 1980' FWL Sec. 15, T10S, R30E, Chaves County, New Mexico (Form C-102)
2. Elevation: 4104' GL, 4122' KB
3. Geological Name of Surface Formation: Halocene aeolian sands
4. Type of Drilling Tools to be utilized: Rotary Tools
5. Proposed Drilling Depth: 9,900'

6. Tops of Important Geological Markers:

Rustler Anhy	1,000'	San Andres	3,000'	Atoka	9,300'
Yates	1,600'	Abo	6,550'	Miss.	9,600'
TD	9,900'				

7. Estimated Depth of Anticipated Water, Oil or Gas:

Oil and Water	- Delaware	1,000'
Gas	- Abo	6,550'
Gas	- Atoka	9,300'

8. Casing Program:

- 13 <sup>5</sup>/<sub>8</sub>" 48# H-40 @ 500' 500 sx, circulated to surface
- 9 <sup>5</sup>/<sub>8</sub>" 40# K-55 or J 55 @ 2500' 750 sx, circulated to surface
- 5 <sup>1</sup>/<sub>2</sub>" 17#, 20# N 80 @ 9,900' 1000 sx, TOC @ ~5000' \*\*

The surface and intermediate casing strings will be cemented to the surface. \*\*The TOC behind the production casing will be determined after running open hole logs.

9. Specifications for Pressure Control Equipment: (see attached diagrams No. 6, No. 7)

This rig will have a series 900 BOP with 5 <sup>1</sup>/<sub>2</sub>" pipe rams and blind rams, kill line, choke manifold, Koomey hydraulic controls, and accumulator with remote controls. When nipping up, will test BOP and choke to 1000 psi, will operate BOP once a day or as directed by the company representative.

10. Mud Program:

Spud and drill with fresh water to a depth of approx. 500'. Drill out from under surface casing with 10# brine water mud to the intermediate casing at 2500'. Drill out cement and drill to 6,500' with fresh water while maintaining a Ph of 10. Drill from 6,500' to TD with cut brine at 9.4 to 9.8 PPG. Use starch for filtrate control and mix pre-hydrated freshwater gel slurry to clean and condition hole prior to running electric logs.

11. Testing, Logging & Coring Program:

- a. Testing: We expect to run DSTs in the Atoka and Abo.
- b. Coring: no coring is planned.
- c. Logging: open hole logs will be run prior to running production casing. The standard suite will be a Dual Lateral/ ML and GR/Density/Neutron combination.
- d. Depending on the sand quality, a FMI and/or formation tester may be run.
- e. Logs will not be run through the intermediate hole section.

12. Potential Hazards:

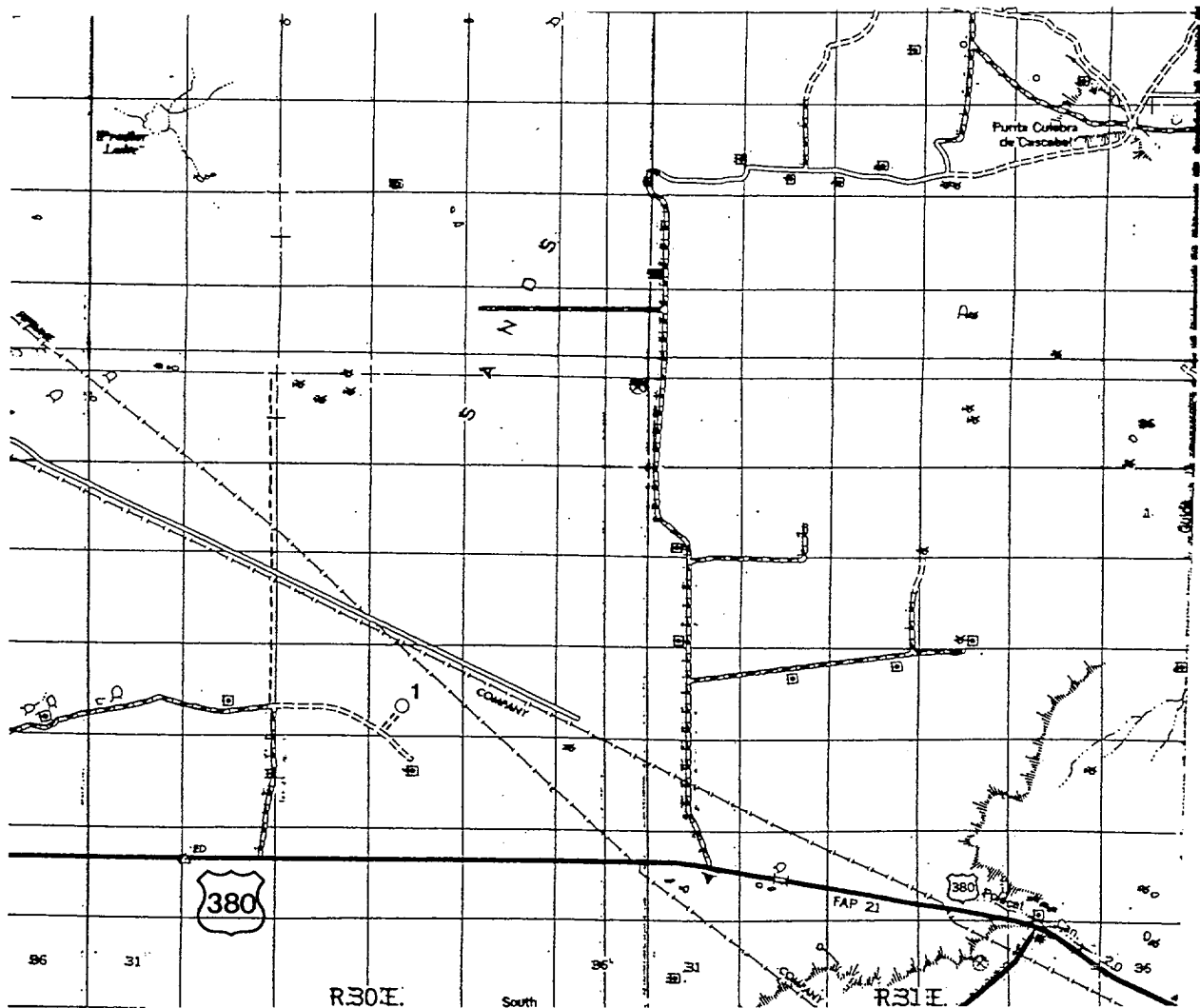
None.

13. Anticipated starting date & duration:

Plans are to begin drilling operations about February 15, 2001; approximately 34 days will be required to drill the well and 8 days will be needed for the completion.



# Oasis 15 Federal #1: Figure # 1



OASIS "15" FEDERAL #1  
 Located at 1330' FSL and 1980' FWL  
 Section 15, Township 10 South, Range 30 East,  
 N.M.P.M., Chaves County, New Mexico.

**basin**  
**surveys**  
 focused on excellence

P.O. Box 1786  
 1120 N. West County Rd.  
 Hobbs, New Mexico 88241  
 (505) 393-7316 - Office  
 (505) 392-3074 - Fax  
 basin-surveys.com

W.O. Number: 0622AA - KJG CD#3

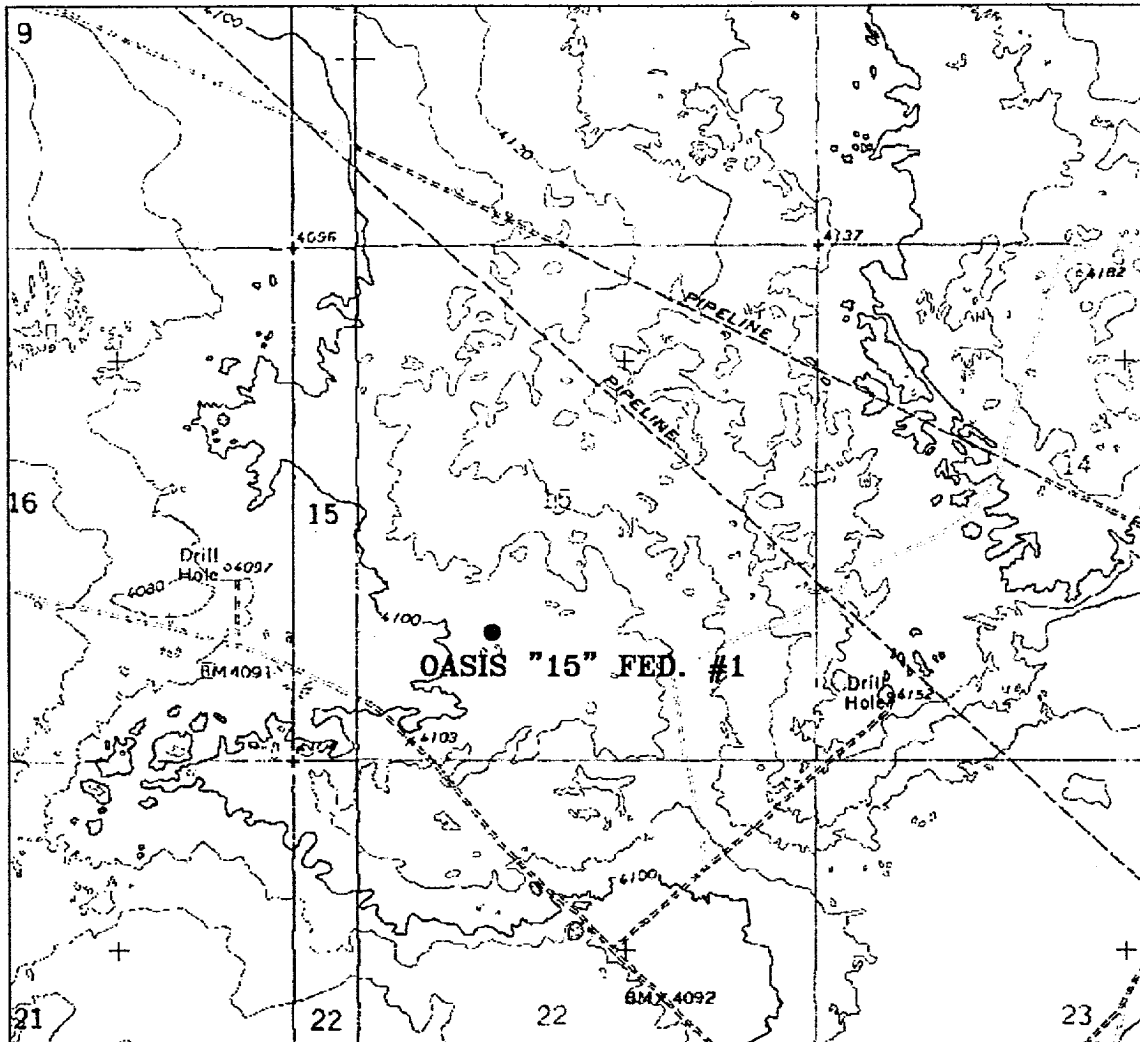
Survey Date: 11-14-2000

Scale: 1" = 2 MILES

Date: 11-16-2000

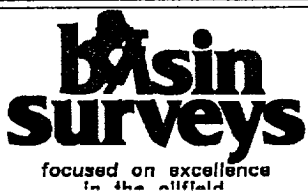
NADEL AND GUSSMAN  
 PERMIAN, L.L.C.

## Oasis 15 Federal #1: Figure # 2



### OASIS "15" FEDERAL #1

Located at 1330' FSL and 1980' FWL  
 Section 15, Township 10 South, Range 30 East,  
 N.M.P.M., Chaves County, New Mexico.



P.O. Box 1786  
 1120 N. West County Rd.  
 Hobbs, New Mexico 88241  
 (505) 393-7316 - Office  
 (505) 392-3074 - Fax  
[basinsurveys.com](http://basinsurveys.com)

W.O. Number: 0622AA - KJG CD#3

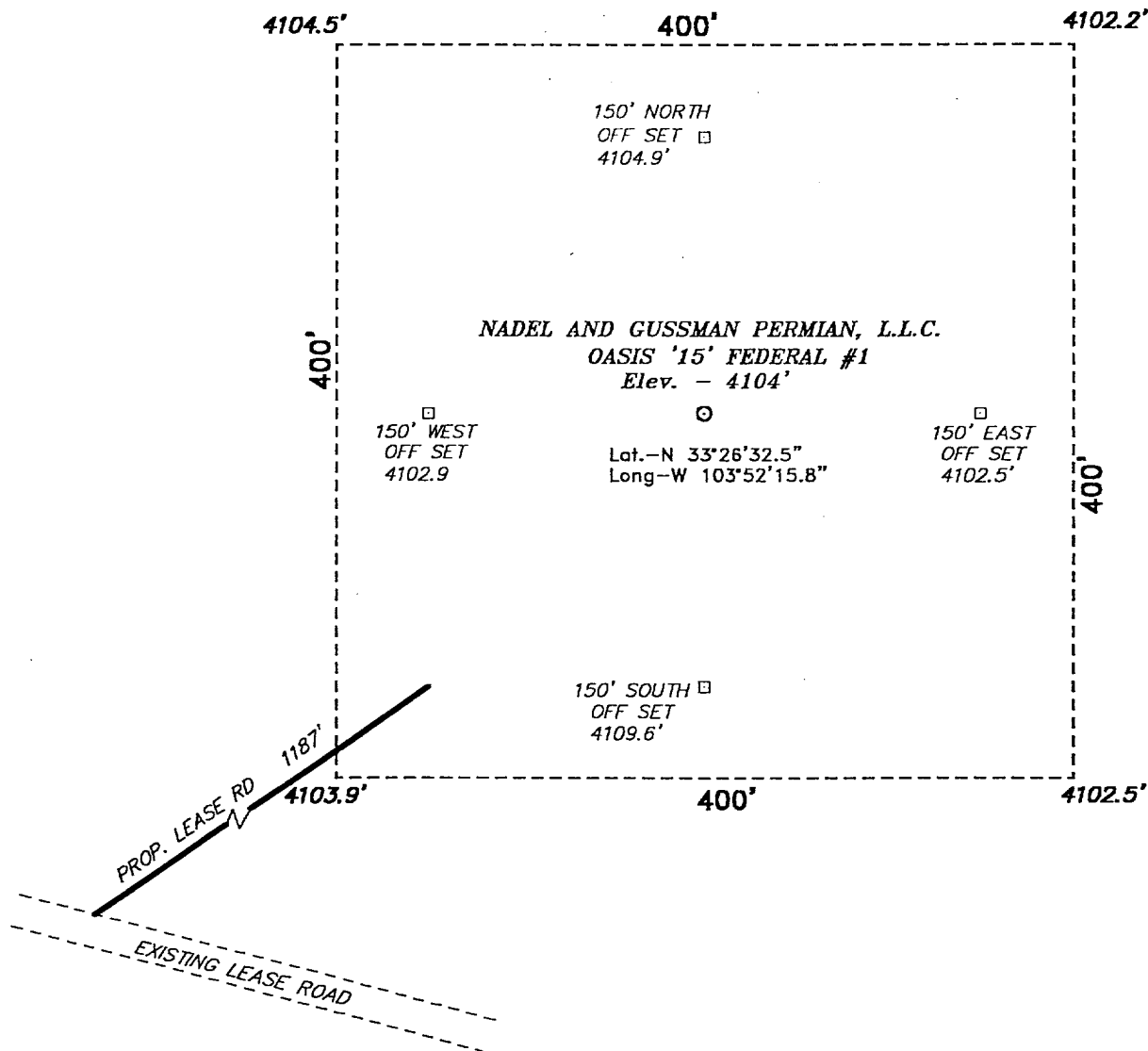
Survey Date: 11-14-2000

Scale: 1" = 2000'

Date: 11-16-2000

NADEL AND GUSSMAN  
 PERMIAN, L.L.C.

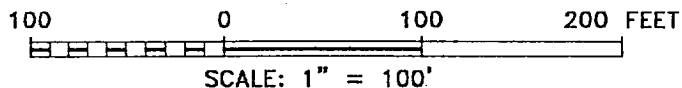
**SECTION 15, TOWNSHIP 10 SOUTH, RANGE 30 EAST, N.M.P.M.,  
CHAVES COUNTY, NEW MEXICO.**



**Oasis 15 Federal #1: Figure # 3**

**DIRECTIONS TO LOCATION:**

GO WEST FROM TATUM, NM. ON HWY 380 TO MILE  
MARKER 91, THEN NORTH ON CATO RD. TT-345  
(CANDRUS RANCH SIGN) 1.6 MILES TO CATTLE GUARD  
THEN EAST 1.2 MILES TO PROPOSED ROAD.



**BASIN SURVEYS** P.O. BOX 1786--HOBBS, NEW MEXICO

W.O. Number: 0622 Drawn By: **C. JONES**

Date: 11-16-2000 Disk: C:\1 #2 - 0622A.DWG

**NADEL AND GUSSMAN PERMIAN, L.L.C.**

REF: OASIS '15' Federal #1 / Well Pad Topo

THE OASIS "15" FEDERAL No. 1 LOCATED 1330' FROM  
THE SOUTH LINE AND 1980' FROM THE WEST LINE OF  
SECTION 15, TOWNSHIP 10 SOUTH, RANGE 30 EAST,  
N.M.P.M., CHAVES COUNTY, NEW MEXICO.

Survey Date: 11-14-2000 Sheet 1 of 1 Sheets



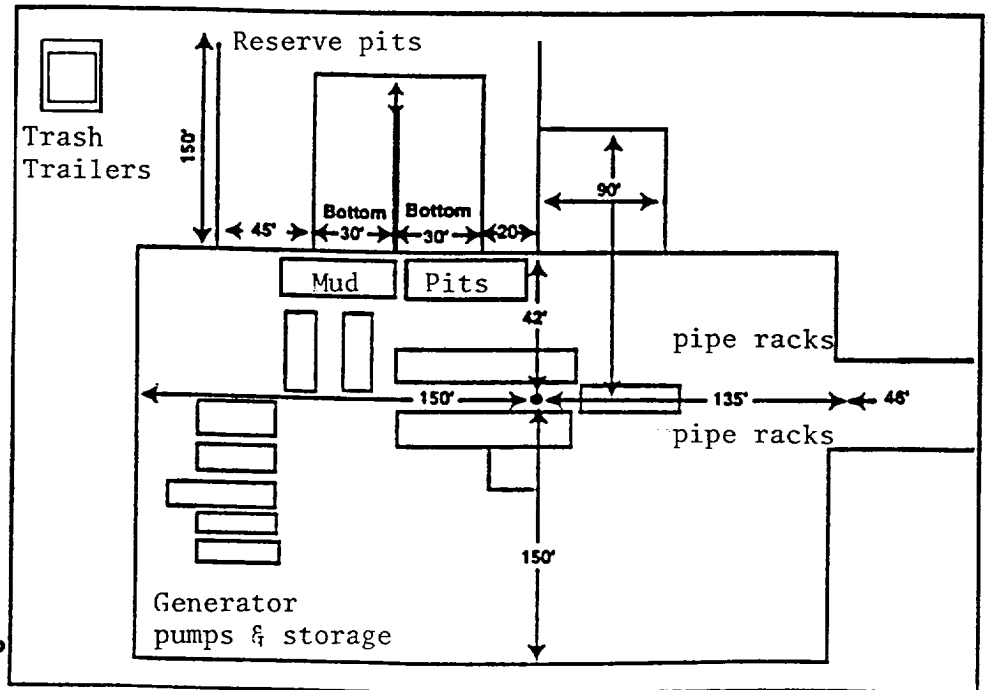


NADEL AND GUSSMAN PERMIAN, L.L.C.

## OASIS "15" Federal No. 1

1330' FSL, 1980' FWL, Sec 15, T-10-S, R-30-E

Chaves County, NM



Patterson Rig Layout

New Lease Road

NADEL AND GUSSMAN PERMIAN, L.L.C.

## OASIS "15" Federal No. 1

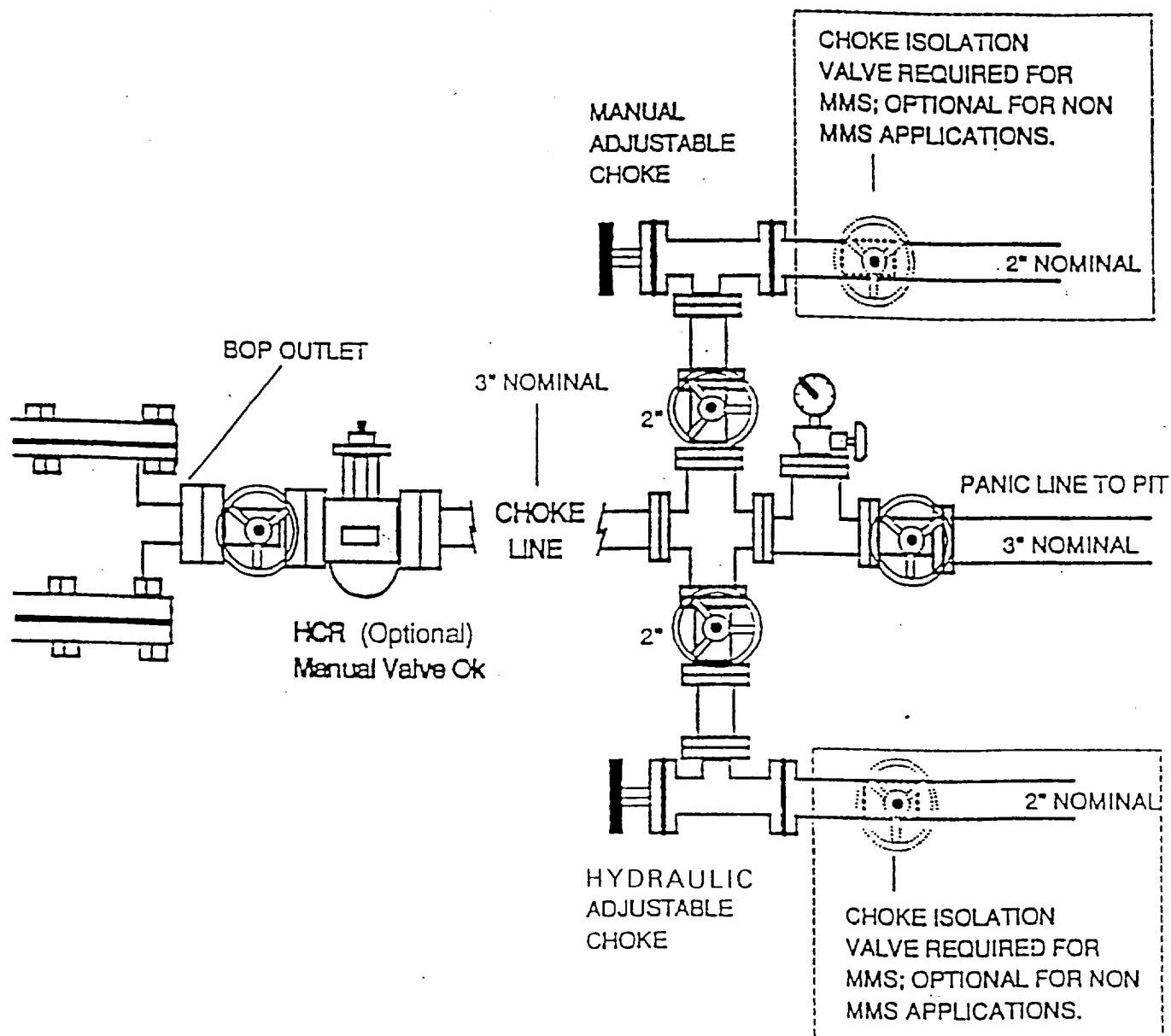
1330' FSL, 1980' FWL, Sec 15, T-10-S, R-30-E

Chaves County, NM

### DRILLING OPERATIONS

### CHOKE MANIFOLD

### 2M AND 3M SERVICE



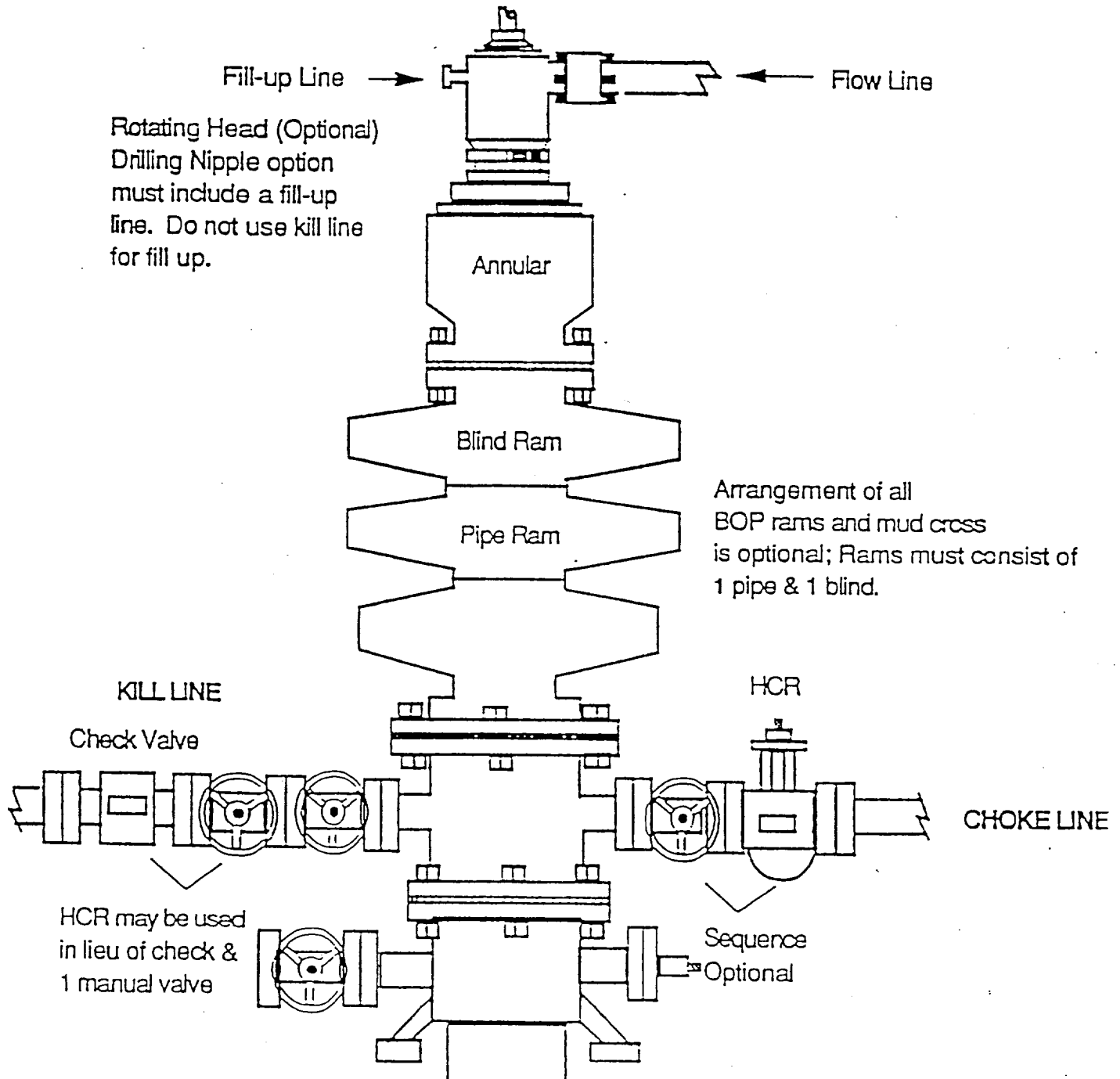
Oasis 15 Federal #1: Figure # 6

NADEL AND GUSSMAN . ERMIAN, L.L.C.

## OASIS "15" Federal No. 1

1330' FSL, 1980' FWL, Sec 15, T-10-S, R-30-E

Chaves County, NM



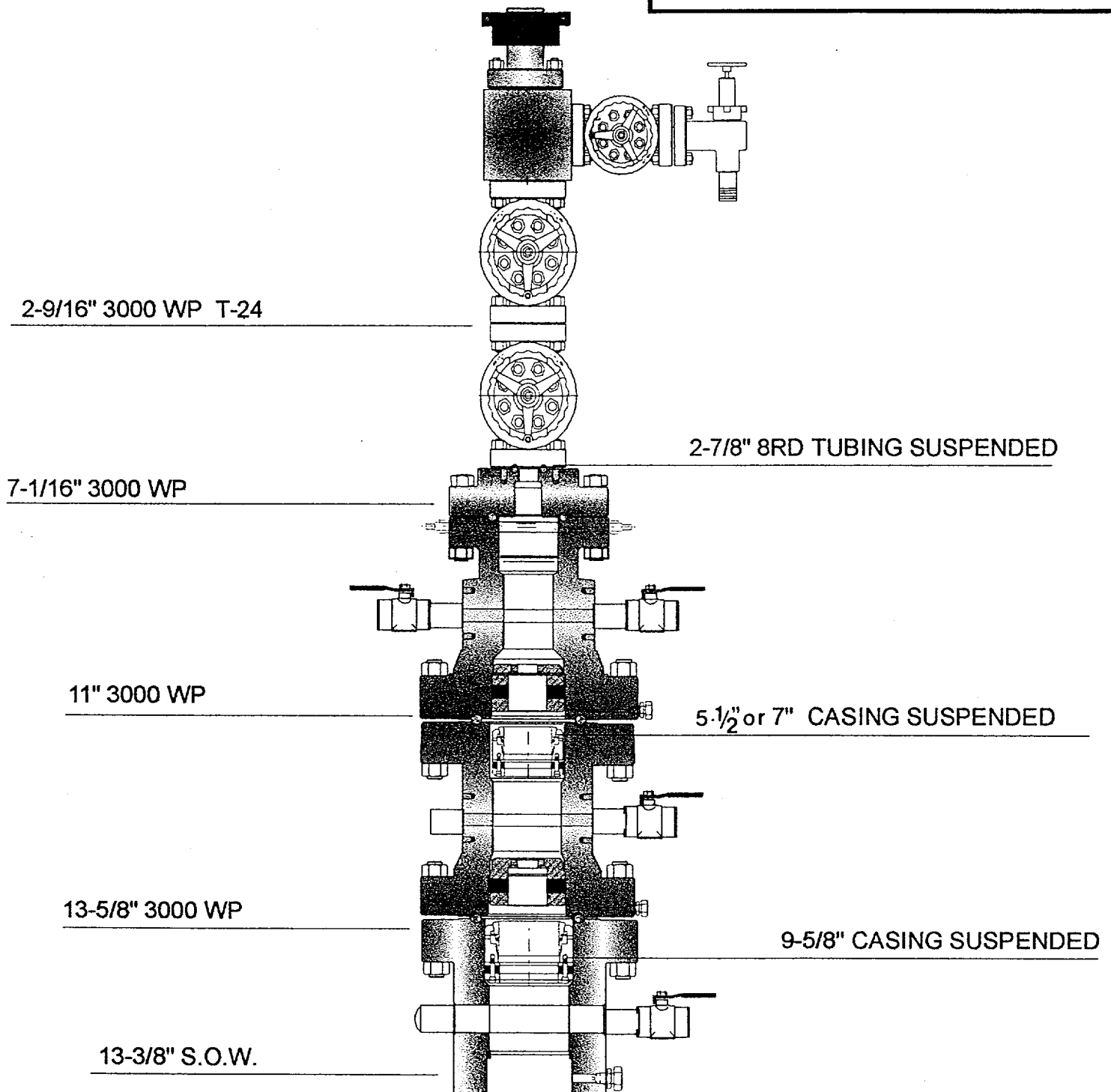
Oasis 15 Federal #1: Figure # 7

NADEL / J GUSSMAN PERMIAN, L.L.C.

OASIS "15" Federal No. 1

1330' FSL, 1980' FWL, Sec 15, T-10-S, R-30-E

Chaves County, NM



Oasis 15 Federal #1: Figure # 8



**UNITED STATES DEPARTMENT OF THE INTERIOR**

**Bureau of Land Management  
Roswell Field Office  
2909 West Second Street  
Roswell, New Mexico 88201-1287**

**Statement Accepting Responsibility for Operations**

Operator Name: Nadel and Gussman Permian L.L.C.  
Address: 601 N. Marienfeld Suite 508  
City, State: Midland, Texas  
Zip Code: 79707

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

Lease Name: **Oasis "15" Federal**

Lease Number: **NM- NM 94087**

Legal Description of Land: **All of Section 15, T-10-S, R-30-E, NMPM, Chaves County, New Mexico.**

Formations: **All depths, all formations**

Bond Coverage: **Statewide**

BLM Bond File Number: **NM2427**

Authorized Signature: 

Name: Robert McNaughton

Title: Operations Engineer

Date: January 10, 2001

**Oasis 15 Federal #1 - Chaves Co. NM**



**Location Photos: Above - well stake and surrounding topography. Below - looking north from existing lease road showing typical geography and vegetation.**



# SNMAS

SOUTHERN NEW MEXICO ARCHAEOLOGICAL SERVICES, INC.  
Post Office Box 1 Bent, New Mexico 88314  
Office (505) 671-4797 Fax (505) 671-4760

December 21, 2000

Nadel and Gussman Permian, L.L.C.  
Mr. Gordon Barker  
601 N. Marienfeld, Suite 508  
Midland, Texas 79701

Dear Mr. Barker;

Enclosed is our cultural resource report for the following Nadel and Gussman Permian L.L.C. proposed project:

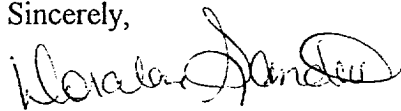
A Class III Cultural Resources Inventory  
The Oasis "15" Federal Number 1 Proposed Well Location and Access Road  
Section 15, T.10S., R.30E  
Chaves County, New Mexico

A records check was completed at the Bureau of Land Management, Roswell District, Carlsbad Resources Area Office, and the State of New Mexico Archaeological Records Management Section. The record check of T. 10S., R.30E., Section 15 and within one mile revealed no previously recorded sites. During the current inventory one isolated occurrence was encountered in the project area, recorded and its research potential exhausted in the field.

Archaeological **clearance is recommended** for the proposed Oasis "15" Federal Number 1 well location and access road, **with no stipulations**

If you have any questions regarding the report, please do not hesitate to contact me.  
Thank you.

Sincerely,



Doralene Sanders  
Office Manager

TITLE PAGE/ABSTRACT  
NEGATIVE SITE REPORT  
ROSWELL DISTRICT

BLM/ RDO 1/95

Page 1

1. BLM Report No.

2. (Accepted)  
(Rejected)

3. NMCRIS No. 72865

4. Title of Report ( Project Title ):

**A Cultural Resource Inventory  
Of the Proposed Oasis "15" Federal Number 1  
Well Location and Access Road**  
Section 15, T.10S., R.30E  
Chaves County, New Mexico

5. Project Date(s)

December 15, 2000

6. Report Date

December 19, 2000,

7. Consultant Name & Address:

Direct Charge: Joe Ben Sanders

Name: Southern New Mexico Archaeological Services, Inc.

Address: PO Box 1 Bent, New Mexico 88314

Author's Name: Doralene Sanders

Field Personnel Names: Joe Ben Sanders

Phone No. (505) 671-4797

8. Permit No.

145-2920-00-G

Consultant Report #

SNMAS-00NM- 457

10. SPONSOR NAME AND ADDRESS:

Individual Responsible: Gordon Barker

Name: Nadel and Gussman Permian, L.L.C.

Address: 601 Marienfeld, Suite 508

Midland, Texas 79701

Phone: (915) 682-4429

11. FOR BLM USE

12. ACREAGE:

Total No. of acres

Surveyed 6.42

Per Surface

Ownership:

Federal 6.42

State

Private

13. Location and Area: (Maps Attached if negative survey)

a. State: New Mexico                      b. County: Chaves

c. BLM District: Roswell              Field Office: Roswell

d. Nearest City or Town: Caprock, New Mexico

e. Location: T.10S., R.30E Sec. 15, Well Pad footages: 1330 ft FSL and 1980 ft FWL

Well Pad 1'4s: SESWNESW, SWSNESW, NENWSESW, NWNESESW

Access Road 1'4s: NWSESW, SENESWSW, SESWSW

f. 7.5' Map Name(s) and Code Number(s): USGS Mescalero Point NE (1973) 32103-D7

**g. Area: Block:**

Impact: 200' X 200 ft

Surveyed: 400 ft X 400 ft

Impact 50 ft X 1187 ft

Surveyed: 100 ft X 1187 ft

**14. a. Records Search:**

Location: ARMS HPD.

Date: December 13, 2000

BLM Carlsbad

Date: December 15, 2000

**List by LA # All sites within .25 miles of the project:** None

**b. Description of Undertaking:**

The Oasis "15" Federal No. 1 well location is staked in Section 15, T.10S., R.30E at 1330 ft FSL and 1980 ft FWL. The impact area for the proposed well location is an area of 200 ft by 200 ft. The proposed access road is 1187 ft long with an impact area of 50 ft by 1187 ft. The proposed access road begins at an existing lease road and trends 1187 ft northeast entering the proposed well location approximately 50 ft north of the southwest corner.

**c. Environmental Setting** NRCS soil designation: vegetative community: etc.:

The area is of prominent dunes 1-2 m tall, deep deflation basins with unconsolidated, aeolian (Holocene Period) sands. The area is covered in yucca, sand sage and various grasses. Elevation is approximately 4103 ft. The location lies about 8 miles west of the Caprock Llano Estacado in an undulating erosional plain with coppice dunes 1 to 4 m high.

**d. Field Methods:**

**Transect Intervals:** 8 zigzag transects across staked well pad at 15 m (50 ft) intervals

**Crew Size:** one

**Time in Field:** 2 hours

**Collections:** NONE

**15. Cultural Resource Findings:** Identification and description: (Location shown on project map)

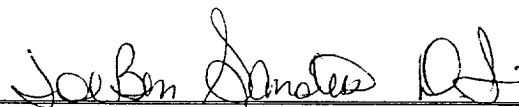
Isolate one consists of a complete tertiary core reduction flake of beige chert exhibiting a single facet platform, no use-wear, and no cortex. The artifact measures 3 X 2 X 0.6 cm in size. Located in an area of one to two meter tall dunes, in a deflation basin measuring approximately 6 X 9 m. The immediate area is vegetated with grasses and yucca. Slope is 2 degrees. Found in the NW1/4NW1/4NE1/4SE1/4SW1/4, in Section 15, T.10S., R.30E.

**16. Management Summary (Recommendations):**

During the cultural resource inventory, one isolated occurrence was located and documented, and its research potential was exhausted in the field. **Therefore, archaeological clearance is recommended for the Nadel and Gussman Permian L.L.C. proposed Oasis "15" Federal Number 1 well location and access road, with no stipulations**

I certify the information provided above is correct and accurate and meets all appreciable BLM standards.

Responsible Archaeologist: Signature



Joe Ben Sanders

Principal Investigator

Date: December 19, 2000

The above completes a negative report. If eligible of potentially eligible properties are involved, then the above will be the title page and abstract for a complete report

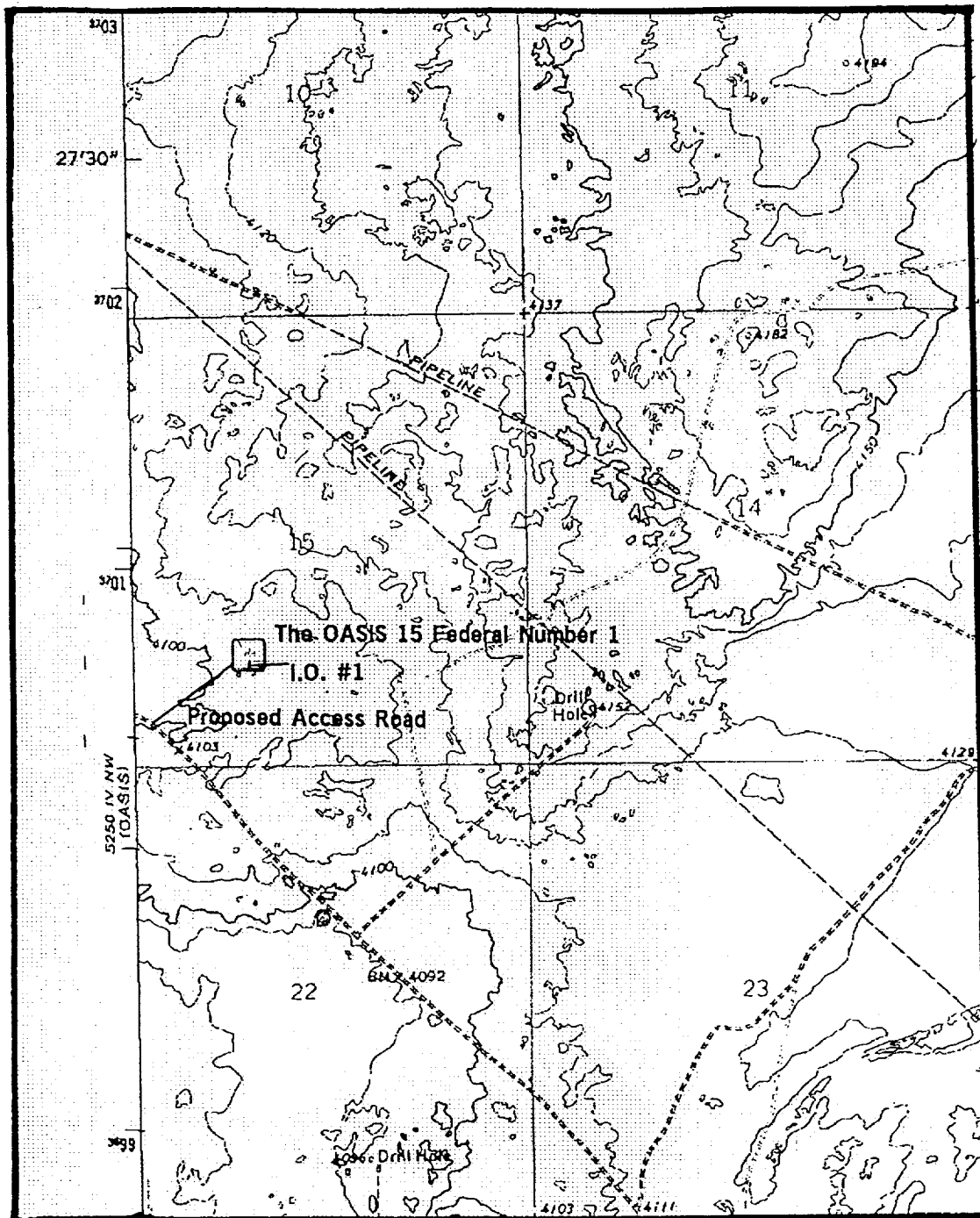


Figure 1. Survey Area Nadel and Gussman Permian L.L.C.  
 The Proposed Oasis "15" Federal Number 1  
 Well Location and Access Road  
 Section 15, T.10S., R.30E  
 USGS Mescalero Point NE 1973 7.5' topo map  
 Chaves County, New Mexico  
 Scale 1:24,000



CONFIDENTIAL LOGS  
INDICATE WHEN  
WILL BE RELEASED

10/21/01

