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b. TIPE OF WELL			611		LE []]	6. FARM OR LEASE NAME, WELL NU. GOB "33" Fed #1	
OGS Operating Co.	, Inc.					0. AN WELL NO.	
3. ADDRESS AND TELEPHONE NO.						30-025-3462	
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DISTRICT I P. O. Box 1980 Hobbs. NM 88241-1980

DISTRICT II P. O. Drower DD Artesia, NM 88211-0719

DISTRICT III 1000 Rio Brazos Rd. Aztec, NM 87410

DISTRICT IV P. O. Box 2088

State of New Mexico 1 Encisy, Minerals, and Natural Resources D rtment

OIL CONSERVATION DIVISION P. O. Box 2088

Santa Fe, New Mexico 87504-2088

Form C-102 Revised 02-10-94 Instructions on back

Submit to the Appropriate District Office State Lease - 4 copies Fee Lease - 3 copies

AMENDED REPORT

Sonto Fe, NM 87507-2088 WELL LOCATION AND ACREAGE DEDICATION PLAT

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30-1		-34627	4237	0			Lyn	ch Yates	/Se	ven Rivers		
* Property Co		³ Property Name G.D.B. "33" FEDERAL							⁶ Well Number 1			
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DRILLING PROGRAM

OGS OPERATING CO., INC. GOB "33" Fed No. 1

In conjunction with Form 3160-3, Application For Permit to Drill the subject well, OGS Operating, Co., Inc. submits the following ten items of pertinent information in accordance with Onshore Oil & Gas Order No. 1.

1. Geologic Name of Surface Formation: Alluvium

2. Estimated Tops of Significant Geologic Markers: Rustler Anhydrite 1,600' Top of Salt 1,750' Base of Salt 3,275' Yates 3,500' Total Depth 3,850'

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

Water	None expected in area
Oil	Yates/Seven Rivers 3500' - 3800'

- 4. Proposed Casing Program: See Form 3160-3 and Exhibit A.
- 5. Pressure Control Equipment: See Exhibit B.
- 6. Drilling Fluid Program: See Exhibit C.
- 7. Auxiliary Equipment: A mud logging unit will be utilized to monitor penetration rate and hydrocarbon shows while drilling 3200' 3800'.
- 8. Testing, Logging, and Coring Program:

Drill Stem Tests: (all DST's to be justified on the basis of a valid show of oil or gas):

Seven Rivers 3730'-TD (3800')

Logging: Dual Laterolog W/MSFL and Gamma Ray 1620'-T.D.(3850') Compensated Neutron/Litho-Density/Gamma Ray 1620'-T.D.(3850')

Coring: No conventional cores are planned.

9. Abnormal Conditions, Pressures, Temperatures, & Potential Hazards:

No abnormal pressures or temperatures are anticipated. The estimated bottom hole temperature is 105 degrees Fahrenheit and the estimated bottom hole pressure is 1550 psi. No Hydrogen Sulfide or other hazardous gases Drilling Program OGS Operating Co., Inc. GOB "33" Fed No. 1 Page 2

> or fluids have been encountered in offset wells, but it is reported to exist in the Yates formation, therefore we are submitting a Hydrogen Sulfide Drilling Operations Plan to cover the unlikely event. No major lost circulation zones have been reported in the offsetting wells.

10. Anticipated Starting Date and Duration of Operations:

Road and location work will not begin until approval has been received from the BLM. The anticipated spud date is May 17, 1999. Once spudded the drilling operation should be completed in approximately 10 days. If the well is productive, an additional 7 days will be required for completion and testing before permanent facilities are installed.

EXHIBIT A OPERATIONS PLAN

OGS Operating Co., Inc. GOB "33" FED. NO. 1 Section 33, T-20-S, R-34-E Lea County, New Mexico

- 1. Drill a 11" hole to approximately 1620'.
- 2. Run 8 5/8" 24.0 ppf J-55 ST&C casing. Cement with 300 sx Class "C" Lite + 2% CaCl₂ and tail-in with 200 sx Class "C" + 2% CaCl₂. Run 6 centralizers on every third joint starting with the shoe joint.
- 3. Wait on cement for twelve hours prior to cutting off.
- 4. Nipple up and install a 3000 psi double ram and annular BOP system with choke manifold. Test BOP system and casing to 1000 psi with rig pump. Wait on cement twenty-four hours prior to drilling out.
- 5. Drill 7-7/8" hole to 3850'. Run logs.
- 6. Run and cement 3850' of 5-1/2" 17.0 ppf J-55 LT&C casing. Cement with 400 sx 50/50 POZ "C" with 10% gel, 5 pps salt followed by 125 sx 50/50 POZ with 2% gel. If logs indicate the well to be non-productive, well will be plugged and abandon as per BLM requirements.



EXHIBIT C DRILLING FLUID PROGRAM OGS Operating Co., Inc. GOB "33" FED. NO. 1 Section 33, T-20-S, R-34-E Lea County, New Mexico

<u>0-1620'</u>

Spud mud consisting of fresh water gel flocculated with lime. Use ground paper for seepage control and to sweep the hole. MW-8.5 ppg, Vis-40.

<u>1620'-3850'</u>

Drill out with brine water circulating the inner portion of the reserve pit. Utilize ground paper mixed in prehydrated fresh gel to sweep the hole. MW-10.0 ppg, Vis-28.

EXHIBIT D

AUXILIARY EQUIPMENT

OGS Operating Co., Inc. GOB "33" FED. NO. 1 Section 33, T-20-S, R-34-E Lea County, New Mexico

DRAWWORKS BDW 650M 650 HP, with Parmac Hydromatic brake

- ENGINES Two Caterpillar D-353 diesels rated at 425 HP each
- ROTARY Ideco 23", 300 ton capacity
- MAST/SUB Ideal 132', 550,000 lb rated static hook load with 10 line; Wagner 15' high substructure

TRAVELLING Gardner-Denver, 300 ton, 5 sheave w/BJ 250 ton hook. **EQUIPMENT** Brewster Model 7 SX 300 ton swivel

- **PUMPS** Continental-EMSCO DC-700 and DB-550, 5 1/2" x 16" Duplex, Compound driven
- **PIT SYSTEM** 1-Shale Pit 6X7X35', 1-Setting Pit 6X7X38', 1-Suction Pit 6X7X34' w/5 mud agitators. Two centrifugal mud mixing pumps and a Double Screen Shale Shaker.
- LIGHT Two CAT 3306 diesel electric sets 180 KW prime power PLANT
- BOP11" 3000 psi WP double ram and 11" 3000 psi WP ShafferEQUIPAnnular Preventer. Choke manifold rated at 3000 psi. Valvcon 5-
station 80 gallon closing unit



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EXHIBIT F

EXISTING WELLS OGS Operating Co., Inc. GOB "33" FED. NO. 1 1650' FNL & 2080' FEL Section 33, T-20-S, R-34-E Lea County, New Mexico



MULTI-POINT SURFACE USE AND OPERATION. PLAN OGS Operating Co., Inc. GOB "33" FED. NO. 1 Section 33, T-20-S, R-34-E Lea 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 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.

A. Exhibit E is a 7.5 minute topographic map which shows the location of the proposed wellsite and roads in the vicinity. The proposed location is situated approximately 27 miles northwest of Eunice, New Mexico.

DIRECTIONS:

 From Eunice go westerly 23.5 miles on State Hwy 176, then northwesterly 2.0 miles on caliche lease road, then south 0.4 mile on lease road, continue south 0.2 mi on abandoned lease road to a point ± 1200' north of the proposed location.

2. PLANNED ACCESS ROAD.

A. Approximately 0.6 miles of existing road will be repaired and rebuilt as necessary and \pm 1200' of new road will be constructed for access to the proposed location.

3. LOCATION OF EXISTING WELLS.

A. The well locations in the vicinity of the proposed well are shown in Exhibits E & F. There are no producing wells in this section.

4. LOCATION OF EXISTING AND/OR PROPOSED FACILITIES.

A. In the event the well is productive, the necessary production equipment will be installed on the drilling pad.

5. LOCATION AND TYPE OF WATER SUPPLY

A. It is planned to drill the well with both fresh water and brine water systems. Both types of waters will be hauled to the location by truck over existing roads. Both types will be obtained from commercial sources.

OGS Operating Co., Inc. HYDROGEN SULFIDE DRILLING OPERATIONS PLAN

GOB "33" FED. NO. 1 Section 33, T-20-S, R-34-E Lea County, New Mexico

In drilling to the Yates/Seven Rivers formation there is very remote possibility that H_2S will be encountered in the Yates formation below the Salt Section. It is our understanding that hydrogen sulfide is expected by the BLM in one of the shallower formations, the Yates. Our drilling fluid hydrostatic head will prevent fluid entry due to the reservoir being overbalanced. The following is our plan for drilling to the Morrow formation.

1. Hydrogen Sulfide Training

All personnel, whether regularly assigned, contracted, or employed on an unscheduled basis, will receive training from a qualified instructor in the following areas prior to commencing drilling operations on the well:

- 1. The hazards and characteristics of hydrogen sulfide (E_2S) .
- 2. The proper use and maintenance of personal protective equipment and life support systems.
- 3. The proper use of H_2S detectors, alarms, warning systems, briefing areas, evacuations procedures, and prevailing winds.
- 4. The proper techniques for first aid and rescue procedures.

In addition, supervisory personnel will be trained in the following areas:

- 1. The effects of H_2S on metal components. If high tensile tubulars are to be used, personnel will be trained in their special maintenance requirements.
- Corrective action and shut-in procedures when drilling or reworking a well and blowout prevention and well control procedures.
- 3. The contents and requirements of the Hydrogen Sulfide Drilling Operations Plan.

There will be an initial training session prior to encountering the Yates (training will take place within 3 days or 500 feet) and we will have weekly H_2S and well control drills for all personnel in each crew. The initial training session shall include a review of the site specific Hydrogen Sulfide Drilling Operations Plan. This plan shall be available at the well site. All personnel will be required to carry documentation that they have received the proper training.

GOB "33" FED. NO. 1 H₂S Drilling Operations Plan Page 2

2. H₂S Safety Equipment and Systems

Note: All H_2S safety equipment and systems will be installed, tested, and operational when drilling reaches a depth of 500 feet above, or three days prior to drilling the Yates @ 3500'.

- 1. Well Control Equipment:
 - A. An annular preventer capable of accommodating all pipe sizes with properly sized closing unit.
- 2. Protective Equipment for Personnel:
 - A. Scott Air-Pack Units located on the rig floor and at briefing areas, as indicated on well site diagram.
- 3. H₂S Detection and Monitoring Equipment:
 - A. 2-portable H_2S monitors positioned on location fcr best coverage and response. These units have warning lights and audible sirens when H_2S levels of 200 ppm are reached.

4. Visual Warning Systems:

- A. Wind direction indicators as shown on well site diagram.
- B. Caution/Danger signs shall be posted on roads providing direct access to location. Signs will be painted high visibility yellow with black lettering of sufficient size to be readable at a reasonable distance from the immediate location. See Example Attached.

5. Mud Program:

A. The mud program is designed to minimize any H_2S circulated to the surface. Proper mud weight and safe drilling practices will be used to minimize hazards when penetrating H_2S bearing zones (San Andres).

6. Metallurgy:

A. All of the drill string, casing, tubing, wellhead, blowout preventers, drilling spool, kill lines, choke manifold and lines, and valves shall be suitable for H₂S service. GOB "33" FED. NO. 1 H_2S Drilling Operations Plan Page 3

- B. All elastomers used for packing and seals shall be $\mathrm{H_2S}$ trim.
- 7. Communication:
 - A. Cellular phone communications in company vehicles.
 - B. Radio communications on the drilling rig.
- 8. Well Testing:
 - A. No drill stem tests are planned.

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James P. (Phil) Stinson Agent for OGS Operating Co., Inc.



