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\*See Instructions On Reverse Side

# NEW MEXICO OIL CONSERVATION COMMISSION

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# WELL LOCATION AND ACERAGE DEDICATION PLAT

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# APPLICATION FOR APPROVAL OF OPERATIONS

(NTL-6)

# BRONCO OIL COMPANY LeCLAIR-WESTWOOD, INC., AGENT

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# FEDERAL #31-14

SE/4, SW/4, SECTION 31, T12N, R12E SAN MIGUEL COUNTY, NEW MEXICO

## I. General Statement of Environmental Impact

We propose to drill the subject well to a depth of  $3500'\pm$  to test the Pennsylvanian Formation. In this undertaking, it will be necessary to move in a rotary drilling rig to drill the well, and a completion unit, at a later date (assuming production is discovered) to complete this well. In the latter regard 4-1/2" or 5-1/2" O.D. casing will be utilized. As a final measure, it will be necessary to build production facilities.

Roads will be built only as necessary to assure access to temporary and permanent facilities. The map(s) attached show the location of these facilities and the required roads. In the case of all roads and excavations made for production facilities, all of these will be restored to their original condition, when no longer required.

In no case will the drainage pattern of the land be changed or divereted.

Likewise in no case, save and except leveling the drill site and tank battery site, will the topography or terrain be changed or altered in any way. No permanent facilities other than a tank battery are contemplated for construction.

#### II. Drilling Operations

#### A. Preliminary Environmental Review

Bronco Oil and Gas Company's letter, dated June 27, 1977, was sent to District Engineer in Durango, Colorado. To date no rebuttal or refusal has been received (copy of letter attached).

#### B. Application for Permit to Drill

- 1. See surveyors plat, attached.
- 2. See surveyors plat, attached.
- 3. Surface formation, San Andres limestone.
- 4. See rig inventory, attached.
- 5. 3500'
- 6. See geological prognosis, attached.
- 7. See geological prognosis, attached.
- 8. See form 9-331C, attached.
- 9. See form 9-331C, attached.
- 10. See rig diagram of blow out preventer equipment, attached. Daily check of blow out preventer equipment will be made and reports of same to USGS by drilling contractor.
- 11. a. See rig inventory and diagram for circulating system specifications.b. See geological prognosis, attached.
- 12. See geological prognosis, attached. Operator, however, reserves the right to drill stem test any and all hydrocarbon shows encountered.
- 13. No abnormal pressures or temperatures or unusual conditions expected. Hazards of a gaseous nature can be handled by the equipment spelled out in (10) above.

- 14.. This project can start approximately October 1, 1977 and should require approximately 40 days duration.
- 15. No additional comments.

As a general statement of policy, it is the intention of the operator and his representatives to utilize as little surface land as possible and to re-grade, restore and/or replace all damages or any land used that has served its purpose. In no way will water right-of-ways, or drainage areas be affected, and in no way will fresh water be disturbed or polluted.

<u>A-1</u> Existing Roads - Access to this well will be accomplished by proceeding 5 miles east of White Lakes, New Mexico on the county road that goes from White Lakes, to Leyba, New Mexico, thence 1/2 mile through the cattleguard to the location (see Figure 1, attached). The route is marked in red.

Existing roads are to be improved as required for the movement of our equipment. We will also maintain existing roads as required and as dictated by any deterioration we may cause. We will need to resurface by grading, only, the last 1/2 mile to our location.

A-2 Planned Access Roads - No new access roads are planned.

A-3 Location of Existing Wells - No wells exist in this area.

<u>A-4 Location of Tank Batteries, Production Facilities, and Production</u> <u>Gathering and Servicing Lines</u> - A. No production facilities exist in this area.

B. See figure 1 and plat for location of proposed tank battery if well is productive. See figure 2, attached, for layout and dimensions of tank battery. Materials are standard oil field (API and ASTM rated). Proper fencing with a turn-style gate will be installed to protect wildlife from entering production facilities or tank battery. Wire will be layed across pits to prevent any wildlife entry. No fill or load lines will extend beyond fences so that wildlife cannot tamper with same. Also, as an added protection, such lines will be equipped with snap on plugs, so they cannot be rubbed loose. Only native materials should be required for ground-bed preparation.

C. Any disturbed areas no longer needed will be returned to their original contours and reseeded.

A-5 Location and Type of Water Supply - Negotiations are currently being made to obtain drilling water.

<u>A-6 Source of Construction Materials</u> - It is not anticipated that materials will be required to build this location. Rather, only ground leveling and reserve pit digging are contemplated.

<u>A-7 Methods for Handling Waste Disposal</u> - Adequate steel pits will be used to handle the recycling of drilling mud. A reserve pit will be dug to handle mud that is no longer serviceable and also to handle cuttings, salts, and chemicals, etc. A pit will be dug and fenced to burn the garbage in. Human waste (sewage) will be handled by a portable privy.

Mud pits will be allowed to dry after drilling is completed and then adequately filled, tamped and leveled. All garbage and/or sewage pits will be filled as soon as the rig leaves the location. The location will be leveled and graded prior to moving in completion equipment and after completion equipment is removed.

Any fluid recovered during testing will be contained in temporary frac tanks. Any oil will eventually be sold. Water will be physically removed from the premises.

A-8 Ancillary Facilities - None anticipated at this time.

<u>A-9 Well Site Layout</u> - See plat of rig (Signal Oilfield Service, Inc., Rig #20) attached. No cuts or fills are anticipated. At this present time there appears to be no reason to contemplate lining earthen pits. <u>A-10 Plans for Restoration of the Surface</u> - The surface of land will be restored by stockpiling soil and then replacing the soil and reseeding, when drilling equipment has been removed.

No change in topography should occur as a result of this work. No rerouting of existing roads is expected.

It is anticipated that pits will be fenced prior to rig release and remain so until clean-up and restoration. In this regard, should any oil become evident on pits, same will be removed.

Any damage done to access roads will be repaired.

Final cleanup scheduling (other than above) will be dependent upon weather and moisture content of soil. In no case will such cleanup exceed six months.

<u>A-11 Other Information</u> - The topography of the subject area is basically flat and the soil is sandy. Vegetation is sparse and primarily weed-grasses with a few trees surrounding the perimeter of the location. No pronounced geological (surface or subsurface) features exist. No significant water exists in proximity to this location. No archeological, historical or cultural sites are in the area. As stated earlier, no cuts or fills are anticipated. Surface ownership is recorded at the San Miguel County Courthouse as belonging to the following:

> Mr. Ralph H. Gray P. O. Box 6769 Moore, Oklahoma 73160 405-794-6571

As per the letter attached, arrangements are being made to settle damages.

Mr. Gray is the owner of all surface land involved. The surface of the land is used sparingly (due to lack of vegetation) for cattle. No crops are raised and no cultivating in the very near future is anticipated. <u>A-12 Operator's Representitive</u> - For the purpose of this venture the designated Operator's representitive is as follows:

Bronco Oil & Gas Company LeClair-Westwood, Inc., Agent W. H. Leach, Jr., President 388 Denver Club Building Denver, Colorado 80202 303-825-4258

<u>A-13 Certification</u> - 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 the 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 <u>Bronco Oil and Gas Company</u> and its contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved.

P. # 19, 1977 Agent Name &

IV. Environmental Analysis Requirements

Previously requested.

V. Approval of Subsequent Operations

Not requested at this time.

#### VI. Agreement for Rehabilitation of Privately Owned Surface

See letter attached.

#### VII. Well Abandonment

Not required at this time.

### VIII. Water Well Conversion

Not applicable to this request.







JOT TO SCALE

1200 SECURITY LIFE BUILDING DENVER, COLORADO 80202



TELEPHONE 303 - 629-1050

# **RIG NO. 20**

1

DRILLING RIG SPECIFICATIONS AND EQUIPMENT

(See Reverse Side for Drawing of Rig Layout)

RIG	Ideco BIR-550 H-37 Back-In Rambler with 12V-71 Engine and 103' - 224,000# capacity mast
SUBSTRUCTURE	11' high - 224,000# capacity
ROTARY TABLE	17 1/2" Ideco
PUMP #1	Emsco DA-500 7 1/2" x 16" 500 h.p. powered by 1 16V-71 GMC Diesel Engine
PUMP #2	Gardner-Denver FXK 7 1/4" x 14" 255 h.p. powered by 2 - 671 GMC Diesel Engines
MUD PIT	l - 12' wide, 5' high, 50' long, 500 bbl. with Desilter and Shale Shaker
BLOWOUT PREVENTER	10" Double Gate Type E, Shaffer
LIGHT PLANT	l – 75 kw and l – 50 kw in light plant house
WATER TANK	400 bbls.
FUEL TANK	2,500 gal.
DRILL PIPE	4 1/2" XH - 7,000 ft.
DRILL COLLARS	20 - 6" x 30'

June 1976



1200 SECURITY LIFE BUILDING DENVER, COLORADO 80202



TELEPHONE 303 - 629-1050

103/4" Dailing ou pple 10° DOUBLE GATE SHAFFER Blowout PREVENTER 3"VALUE 3″ 2" Adjostable CHORE تي *لاركر* 70 NUD P.F 3 UNIVES To Dies  $\varnothing - \varnothing$ 3" NALAS D 2" Adjustable CHOKE

ERONCO OIL AND GAS COMPANY		<u>אָן ג'ך</u>	
SUITE 1704 EXECUTIVE TOWER INN 1465 CURTIS STREET DENVER, COLORADO BO202	11	in-Westwo	
Well Prognosis Bronco Oil & Gas #31-14 Federal	[	1 1	1
SE SW 31-T12N-P12E San Miguel Co., New Mexico	W.H.L.	uul.	
Elevation: 7065 ground estimated	(cc)	··· =	
Formation Tops	D.L.L.		
Spud in San Andres limestone Glorieta sand: 10' Yesa silt and sandy shale: 160' Abo red shale: 550'	K.R.G. (cc) J.C.G.		
Includes Sangre de Cristo fresh granite wash and arkosi oil & gas shows can be expected at any depth from top Pennsy	sand Ivanian	to	
TD. Pennsylvanian: 900' A gradational contact with Sangre de Cristo.	B.L.W.		
Gray shale increasing & red shale decreasing with depth sand and thin bedded limestone. Mid Pennsylvanian: 1700' Thicker limestones, may have arkosic sand stringers Lower Penn-Sandia: 2000' Elack shaled, sandstone Mississippian limestone: 2300' Pre-Cambrian: 2400'			
Surface Casing As directed by state Oil & Gas Commission			
Mud Program Fresh gel system of sufficient viscosity to maintain excelle quality from base of surface casing to total depth.	nt samp:	Le	
<u>Problem Zones</u> Loss of circulation may be encountered in the Pennsylvanian, on location. Anhydrite may be present in the Yeso, may clab			
Samples Catch samples as follows: Surface hole - each 30' Below surface casing to total depth - each 10' Wash samples thoroughly, mark legibly and hang in 10 sa in a dry place.	ck bund	les	
Mud Logging Gas detector on location and operating from 700' to total de	pth		
			•
		•	

# Electrical Logging

Induction Electrical

Compensated Neutron Formation Density with Gamma Pay caliper

<u>Testing</u> DST oil and gas shows as directed by the well site geologist.

# Well Site Geologist

or

Jerry Bailey, Denver 303-534-8066, office 303-697-8259, home Bob Doak, Santa Fe 505-982-8937

## Notification

Daily call with morning report to Bronco Oil & Gas Co., Casper 307-266-3366, office

Forest Twiford

# BRONCO OIL AND GAS COMPANY

SUITE 300 CENTURY BUILDING P.O. BOX 834 CASPER, WYOMING 82602

June 27, 1977

int Leclair-Westwood, Inc.

TELEPHONE 307/268-3366

U. S. G. S. 1809 Jarvis Bldg. Durango, Colorado 81301

Attn: Mr. Jerry W. Long District Engineer

Dear Sir:

Bronco Oil & Gas requests, in accordance with the NTL-6 Program, permission to stake a location in the below described area:

SESW Section 31 T12N R12E San Miguel County New Mexico Federal Lease - NM-22137

Thank you in advance for your attention to this request.

Yours very truly,

Dan Lewis Drilling Engineer

DL/ims



LeCLAIR - WESTWOOD, INC.

388 DENVER CLUB BUILDING DENVER, COLORADO 80202 (303) 825-4258

September 8, 1977

Mr. Ralph H. Gray P. O. Box 6769 Moore, Oklahoma 73160

> RE: Surface Damages for Location & Access Road into Location SE/4, SW/4, Section 9, T12N, R12E San Miguel County, New Mexico

Dear Mr. Gray:

As per our phone conversation on September 7, 1977, this letter concerns settlement of surface damages for drillsite location and road to be built on your land. We feel that \$200 would be sufficient to cover these damages. In addition, a temporary cattleguard will be installed where a barbed wire gate now exists. If the well is productive, then the road will be made permanent and a permanent cattleguard will be installed. Also, at this time we will discuss damage settlement for a tank battery site.

If you have any questions, please feel free to call me at 303-825-4258.

If we have not heard from you within 10 days, we will assume you are in complete agreement with these terms and we will draft a release for you to sign at which time you will receive a check for damages.

Yours very truly,

LeCLAIR-WESTWOOD, INC.

K. R. Gordon Production Engineer

KEG:blw

CC: Dan Lewis - Casper John Head - Denver

Oil Company

JOINT OIL & GAS VENTURES

LeClair-Westwood, Inc.

1 4 1977

September 12, 1977

LeClair-Westwood, Inc. 388 Denver Club Bldg. Denver, Colorado 80202

RE: Surface Damages, etc San Miguel County, New Maxico Prospect.

Gentlemen:

405-794-6571

p.o.box 6769

moore, okla. 73160

Attn: Mr. K. R. Gordon, Production Engineer

Your letter of Septimeber 3, 1977 regarding reference prospect has been received.

For the right of egress and engress, roads, surface damages, etc., I fe 1 like §300.00 will be more equitable. In addition to the dollar adjustment, I also want the following:

1) Use the existing gate to the west. Then laying out the road, use the shortest route possible to the drill-site.

2) Install a cattle guard wide enough across (at least 8' wide) and leave it there as a permanent installation.

3) If the well is not productive, do not plug. Just put a suitable cap over the top. I will use the hole for another watering place for cattle, by installing a windmill over the hole. I will also need your drilling log showing water depths.

4) If the well is dry, I will expect you be restore the surface to its original condition as soon as possible.

Actually, with all these requirements, I think it will cost you less money, for your explorations.

Hoping to hear favorably from you regarding my requirments, I remain

LEGIB

PHG/e

KEHABILITATION AGREEMENT

ocarich: <u>SE 4 SW 4</u> Sec. <u>31</u> ,	11 Name and No.: Federal #31-14 T. <u>12</u> N., R. <u>12E</u> W.
	<u> </u>
Bronco face owned by Mr. Ralph Gray	Oil Company intends to drill a well on sur-
agrees to complete the following a	. The lessee/operator rehabilitation work if the well is a producer
X/Yes // No Maintain road.	access road and provide adequate drainage to
	and reseed any area in excess of the pump and facilities.
ther requirements.	
Other requirements:	
The following work will be complet	ted when the well is abandoned:
// Yes kx/ No Site will topograph	l require reshaping to conform to existing
XXX Yes // No Pit will topograph	be fenced until dry, then filled to conform any.
	lsturbed area will be resceded. If yes, the generation of the seed mixture will be used:
· · · · · · · · · · · · · · · · · · ·	
	oad will be rehabilitated and reseeded using seed mixture as above.
<u>kx</u> k Yes <u>//</u> No Access ro	ad will remain for landowner's use.
ther requirements: <u>Permanent cat</u> now exists.	ttleguard will be installed where wire gate
andowner	Operator/Lessee
aue: Mr. Ralph H. Gray	Name:
ddress: P. O. Box 6769	Address:
ity: <u>Moore</u>	City:
tate: 0klahoma 73160 elephone: 4-5=794-6571	State: Telephone:
	A UAU PIIGIGU

This agreement covers rehabilitation requirements only and does not affect any, other agreements between the lessee/operator and surface owner.



# Museum of New Mexico

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September 13, 1977

K. R. Gordon Production Engineer LeClair-Westwood, Inc. 388 Denver Club Building Denver, Colorado 80202

Dear Mr. Gordon:

On September 12, 1977, an archeological clearance investigation was conducted for Le-Clair Westwood Inc. by the Contract Archeological Section of the Museum of New Mexico. The purpose of the survey was to investigate a proposed well location in the SE  $\frac{1}{4}$ , of the SW  $\frac{1}{4}$ , Section 31, Township 12 North, Range 12 West, San Miguel County, New Mexico for cultural resources.

Contract agreements for the survey were arranged by K. R. Gordon of Le-Clair Westwood and David H. Snow of the Museum of New Mexico. Allan MacGillivray III of the Museum of New Mexico performed the field work.

The well location surveyed is on land administered by the Bureau of Land Management. The legal description is SE  $\frac{1}{4}$ , of the SW  $\frac{1}{4}$ , Section 31, Township 12 North, Range 12 East, San Miguel County, New Mexico. UTM Zone 13: 435560 East, 3897100 North.

The clearance investigation consisted of 100% on foot coverage of the SE  $\frac{1}{4}$ , of the SW  $\frac{1}{4}$ , Section 31, Township 12 North, Range 12 East, San Miguel County, New Mexico.

Vegetation includes a sparse cover of piñon and juniper forest. Succulents include yucca and prickly pear cactus with some cholla. Other vegetation includes a good cover of grama grass with some bunch grass, western wheat grass and various mountain wild flowers.

an agency of the State of New Mexico • Box 2087 • Santa Fe, New Mexico 87503

K. R. Gordon September 13, 1977

Page 2

No cultural resources were located within the area surveyed and archeological clearance is recommended.

Sincerely,

Deviel H. Anow

David H. Snow Contract Archeology Section

DHS/btr

cc: U.S. Department of Interior Bureau of Land Management 3550 Pan American Freeway Albuquerque, New Mexico 87102

> USGS District Engineer Box 1809 Jarvis Building Durango, Colorado 81301 Attn: Jerry Lang



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