

P. O. Box 11005

STEVENS & TULL, INC.

MIDLAND, TEXAS 79702

915/699-1410

May 3, 1995

Noranda Exploration, Inc. P. O. Box 15638 Denver, Colorado 80215

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RE: Federal 9 #7 Well 2310' FSL & 990' FEL, Sec. 9, T-20-S, R-33-E, N.M.P.M. Lea County, New Mexico Indian Hill Prospect

Gentlemen:

Please be advised that Stevens & Tull, Inc. proposes to drill the captioned well without a Potash string. As required under Order No. R-lll-P, we are hereby furnishing you with a copy of our APD and plat for said well.

Please return the attached waiver to the Oil Conservation Division at 2040 South Pacheco, Santa Fe, New Mexico 87505 at your earliest convenience. Should you have any questions, please contact our office.

Yours very truly,

STEVENS & TULL, INC. Lan 11 Al

	<ul> <li>SENDER:</li> <li>Complete items 1 and/or 2 for additional services.</li> <li>Complete items 3, and 4a &amp; b.</li> <li>Print your name and address on the reverse of this form so return this card to you.</li> <li>Attach this form to the front of the mailpiece, or on the ba does not permit.</li> <li>Write "Return Receipt Requested" on the mailpiece below the</li> <li>The Return Receipt will show to whom the article was delivered delivered.</li> </ul>	ck if space 1. Addressee's Address ,		
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	5. Signature (Addressee) 6. Signature (Agent) PS Form <b>3811</b> , December 1991 #U.S. GPO: 1993-	8. Address e's Address Coly if requested and tee is gaid) 352-714 DOMESTIC RETURN RECEIPT		

(Inc)

STEVENS & TULL, INC. MIDLAND, TEXAS 79702

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P. O. Box 11005

915/699-1410

May 3, 1995

Mississippi Potash Inc. P. O. Box 1914 Yazoo, Mississippi 39194

> RE: Federal 9 #7 Well 2310' FSL & 990' FEL, Sec. 9, T-20-S, R-33-E, N.M.P.M. Lea County, New Mexico Indian Hill Prospect

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STEVENS	&	TULL,	I	NÇ.	٨
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STEVENS & TULL, INC. MIDLAND, TEXAS 79702

P. O. Box 11005

915/699-1410

May 3, 1995

New Mexico Potash Corporation P. O. Box 610 Hobbs, New Mexico 88240

> RE: Federal 9 #7 Well 2310' FSL & 990' FEL, Sec. 9, T-20-S, R-33-E, N.M.P.M. Lea County, New Mexico Indian Hill Prospect

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STEVENS & TULL, LNC. 1/1

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May 5, 1995

Mr. Jerry Weant Stevens & Tull, Inc. PO Box 11005 Midland, Texas 79702

RE: Federal 9 #7 Well 2310' FSL and 990'FEL, SEC 9, T-20-S, R-33-E, N.M.P.M. Lea County, New Mexico Indian Hill Prospect

Dear Mr. Weant:

We have received the referenced application, dated May 3, 1995. At this time, Mississippi Potash, Inc. does not offer objections to the location stated above.

However, this location resides within the Secretary's Potash Area, as defined in the 1986 Secretary's Order, and we feel all wells should comply with the requirement of a "salt protection string" of casing.

We do object to this well being drilled without the "salt protection string".

Sincerely,

MISSISSIPPI POTASH, INC.

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Randy Foote General Manager

cc: Oil Conservation Division Allen Bridgeforth



June 7, 1995

IMC Global Operations Inc. 1364 Potash Mines Rd. Carlsbad, New Mexico 88224 0074 505.887.2874 505.887.0589 Fax

Mr. Jerry A. Weant Stevens & Tull, Inc. P.O. Box 11005 Midland, TX 79702

RE: Federal 9 #7 Well 2310'FSL, 990'FEL, Section 9, T20S-R33E Lea County, New Mexico Indian Hill Prospect

Dear Mr. Weant:

IMC Global, Inc. has received your notification that Stevens & Tull, Inc. intends to drill the above referenced well without a salt protection string. IMC objects to this well being drilled without the salt string because it lies within the Potash Area as defined by Order No. R-111-P. R-111-P requires a salt protection string for wells located within the potash area, however, IMC would not object to the well should it be drilled with the potash string as it is greater than 1/4 mile from IMC's LMR and buffer zone.

The location is approximately 1 mile from IMC's LMR. We do not feel comfortable with holes drilled without the salt string this close to potential mining areas.

The current LMR and buffer zone are determined from the best available information. As more information becomes available, the LMR can change and may be modified and adjusted. This is reflected in the yearly update of the LMR. The relationship of any well location relative to the LMR can change. Therefore, please consider the "objection offered" or "no objection offered" to a well location to be valid for only one year. If you are still considering a well location that a potash operator has or has not objected to more than one year prior, notify us again at that time so we can make the decision on information current at that time. Do not consider a "no objection offered" or an "objection offered" decision to be permanent.

IMC Global, Inc. protests drilling this well without a potash protection string.

Sincerely,

PHU L

Peter N. Livingstone Senior Mine Engineer

Box 71 Corlsbad, N.M. 38221

cc: Dick Manus Walt Thayer Charlie High William Calkins Tim O'Brien Joan Florez Leslie Cone

# STEVENS & TULL, INC. WEST TEAS FIELD GEOLOGICAL SUMMARY

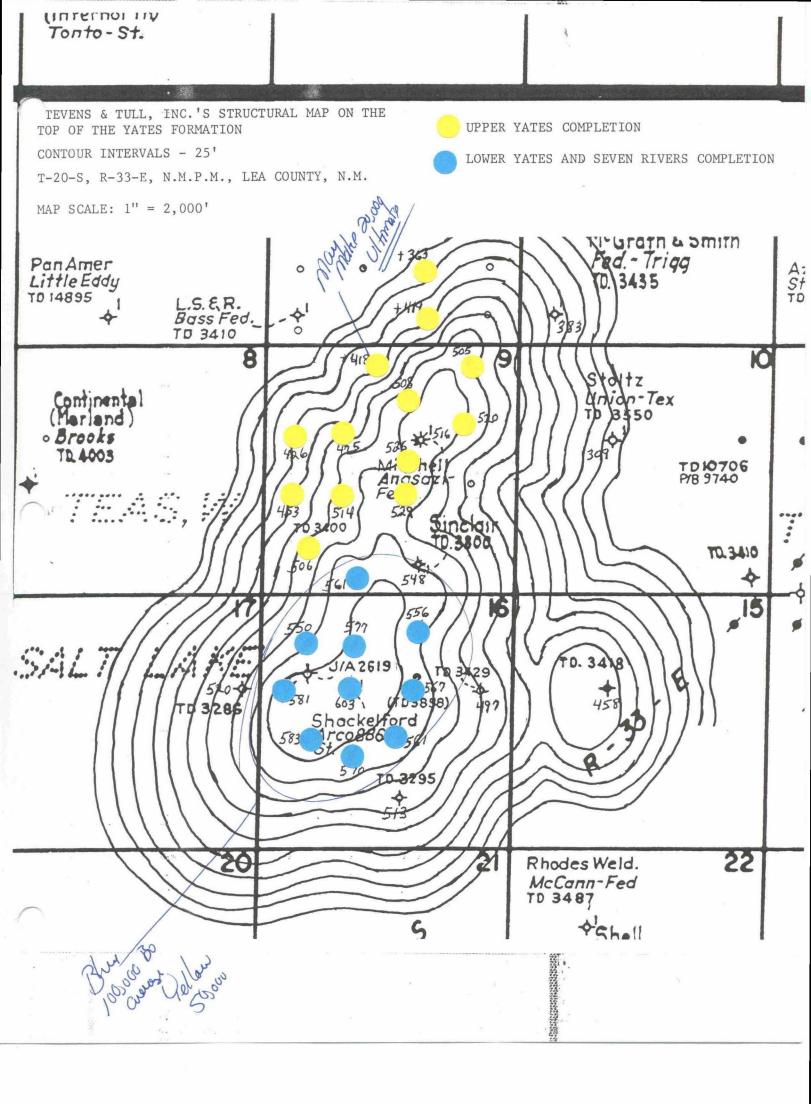
Stevens & Tull, Inc. is attempting to expand production from the upper Yates formation in the West Teas oil pool located in Section 16, T-20-S, R-33-E, Lea County, New Mexico. We feel that commercial production can be extended throughout Section 9 and 16, T-20-S, R-33-E. Stevens & Tull, Inc. has drilled and completed five (5) wells in Section 9 and one (1) well in Section 16 in the West Teas pool.

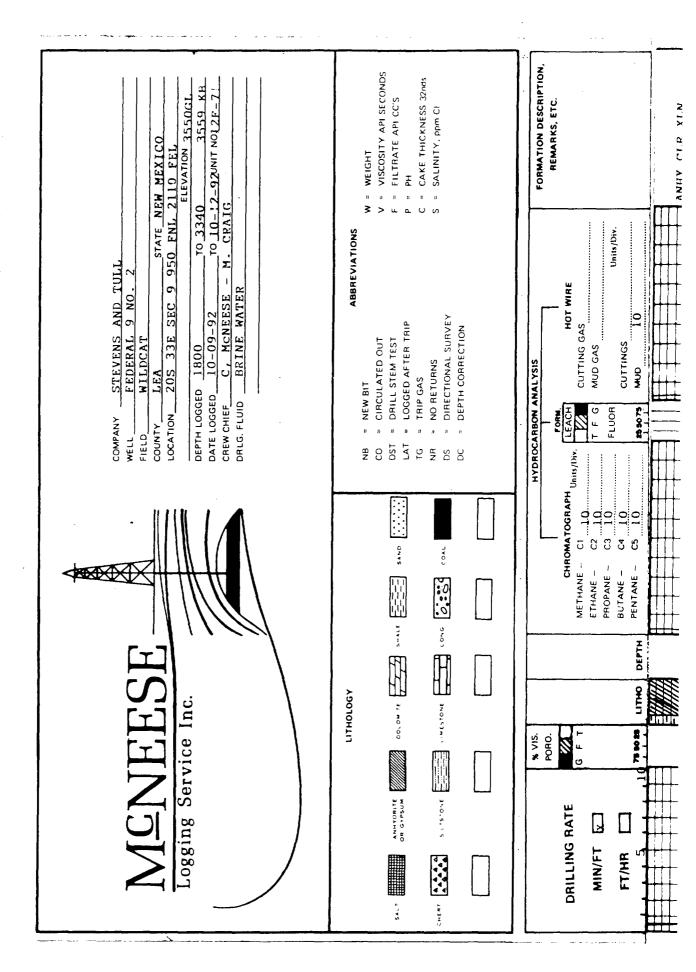
Several wells located in Section 16 have produced in excess of 100,000 barrels of oil from the lower or basal sand of the Yates formation and the upper section of the Seven Rivers formation, which is sand and dolomite. Each of these zones is structurally controlled and have a strong water drive. The wells that produce from these formations are located on the highest point of the structural feature.

However, the wells in Section 9 produce primarily from the upper section of the Yates formation and are structurally low to the wells in Section 16. The lower Yates and upper Seven Rivers appear to be wet off the crest of the structural feature where most of the wells in Section 9 are located.

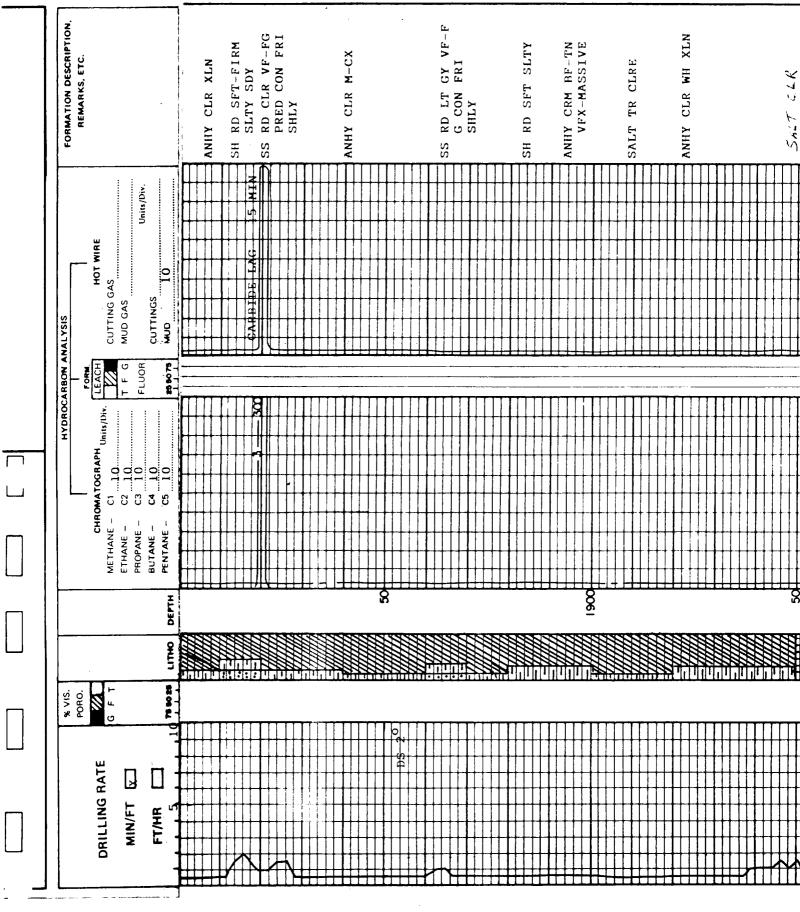
Although it appears that commercial production can be extended in the Upper Yates formation, drilling costs must be restricted because reserve potential in wells located off the structural crest apparently will not be as high as the production from well located on the crest in Section 16. There is very little gas produced with the oil in the upper Yates sand; therefore, Stevens & Tull, Inc. is hoping of recover only one-half of the reserves as produced from the wells located in Section 16, being approximately 50,000 barrels per well.

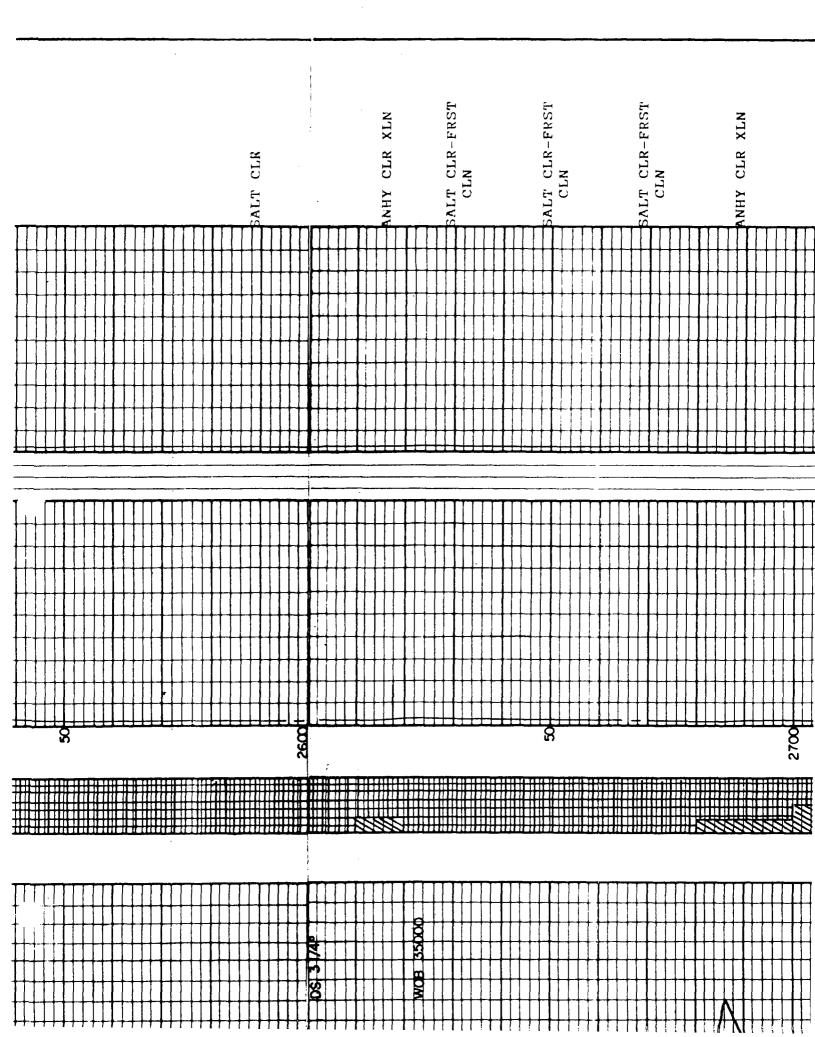
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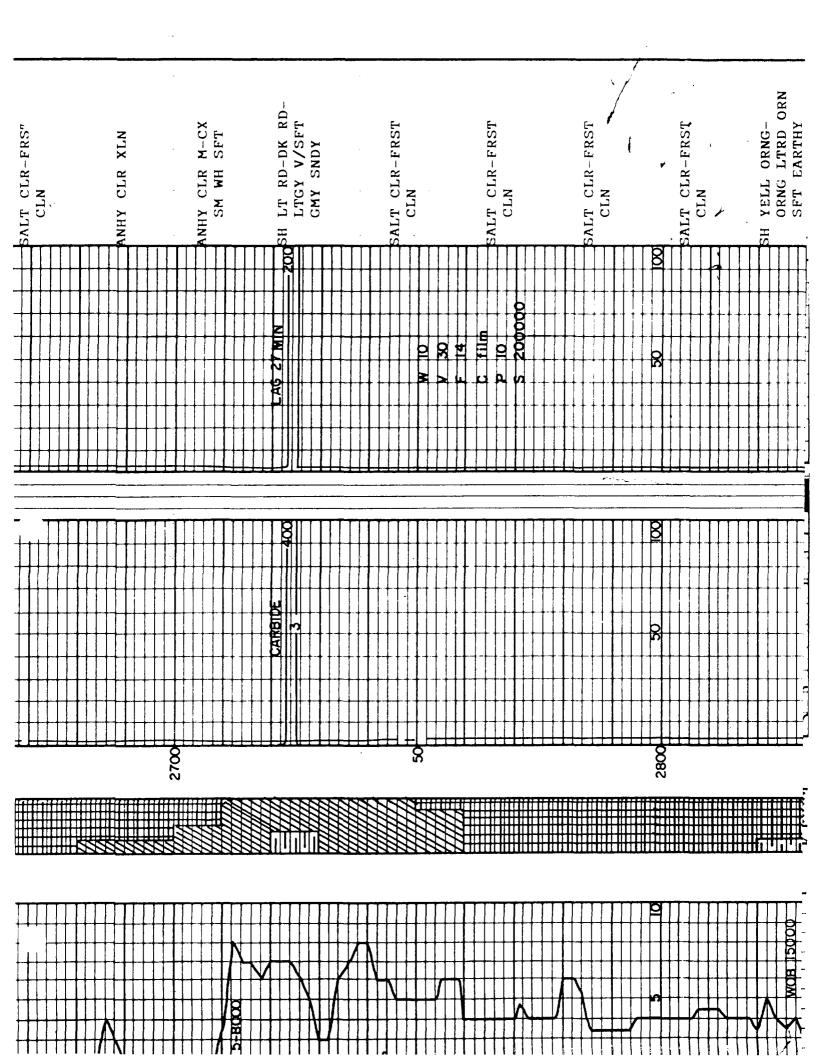


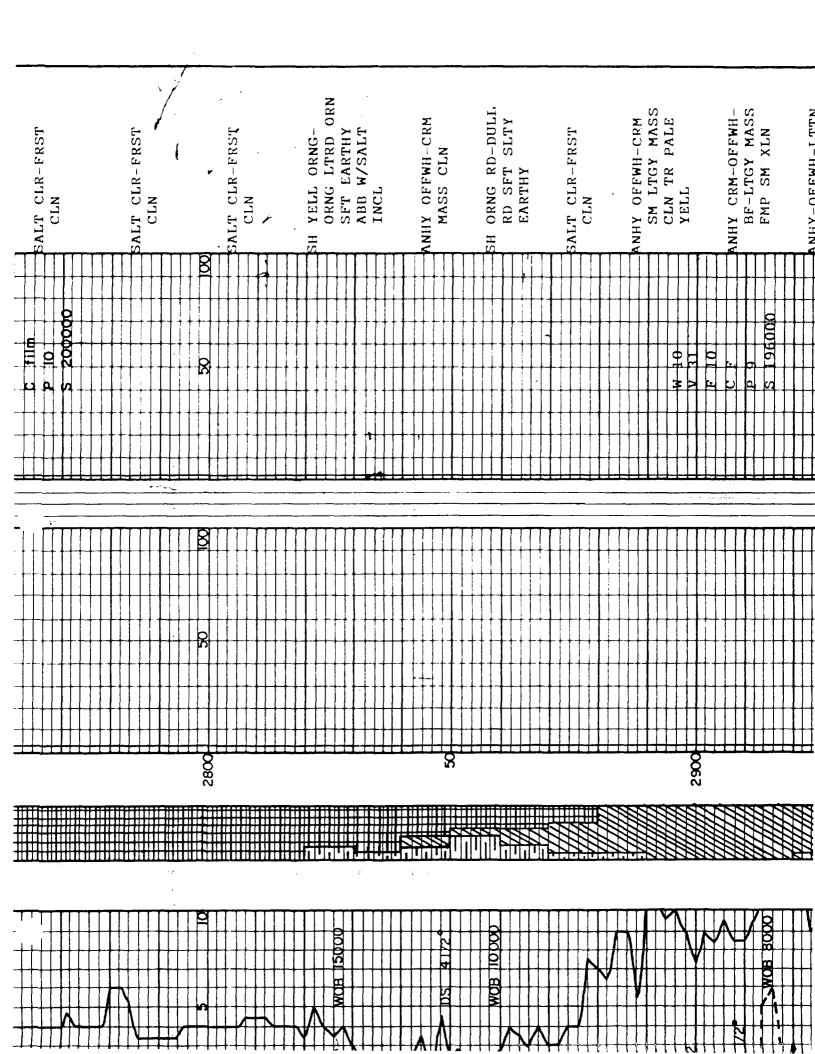


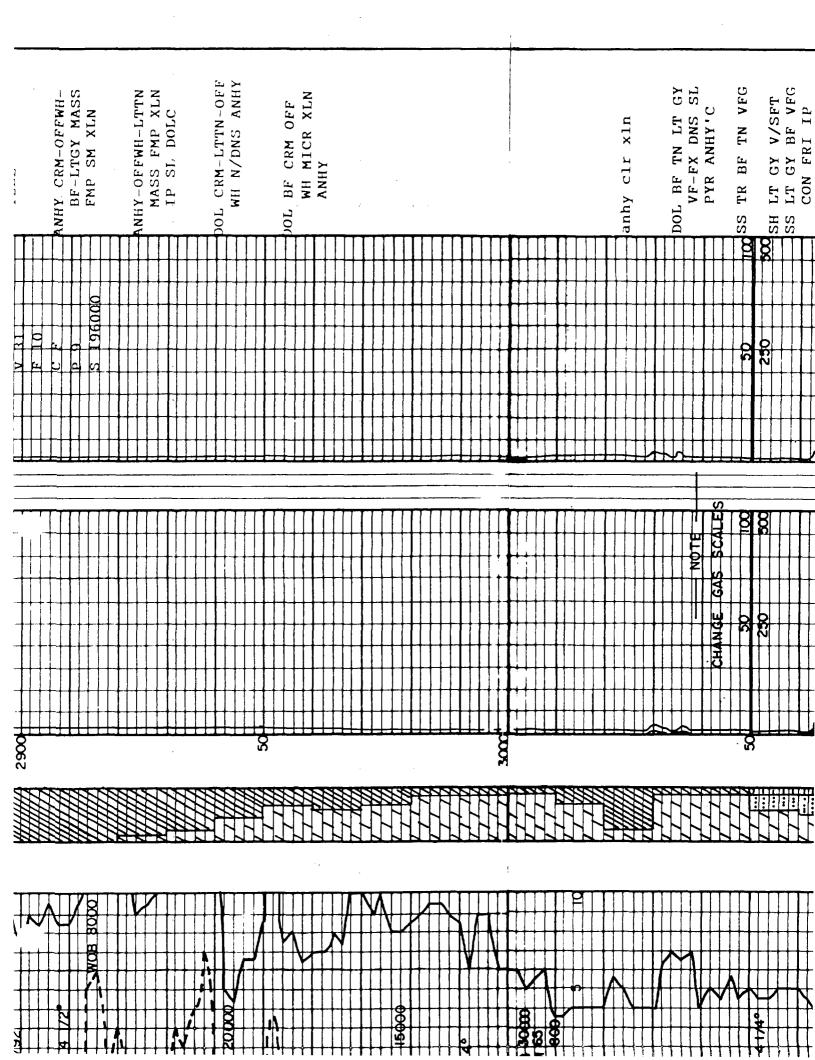
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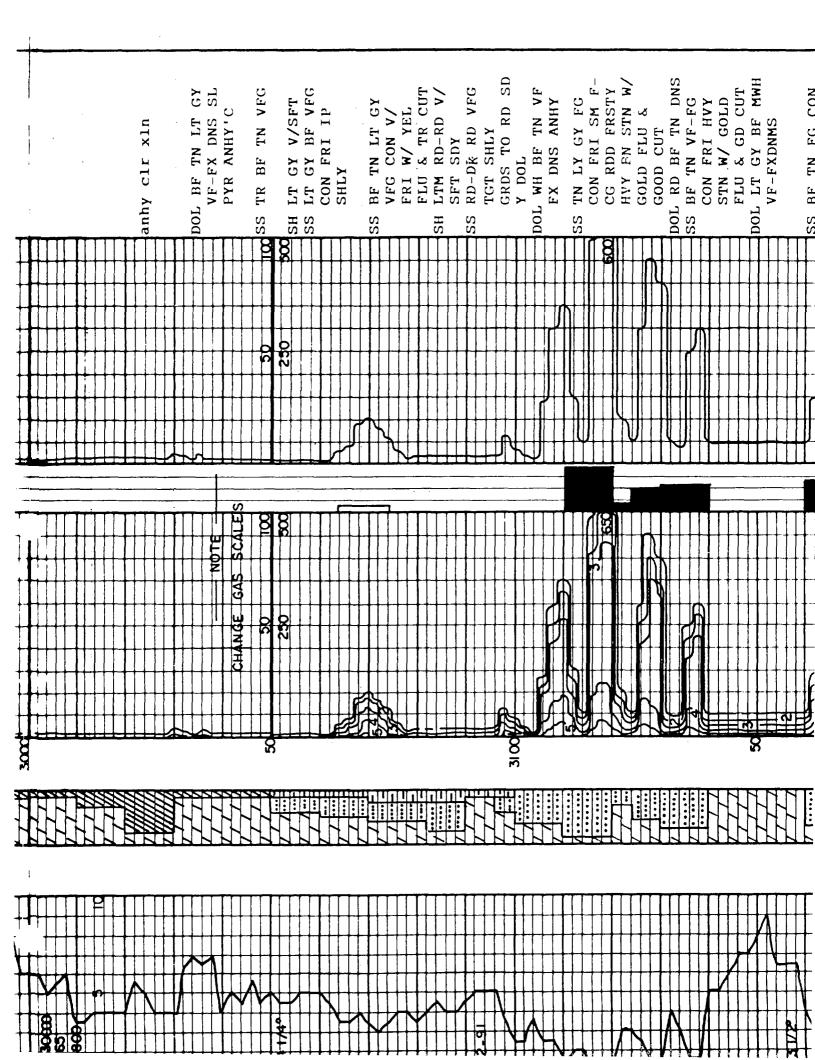




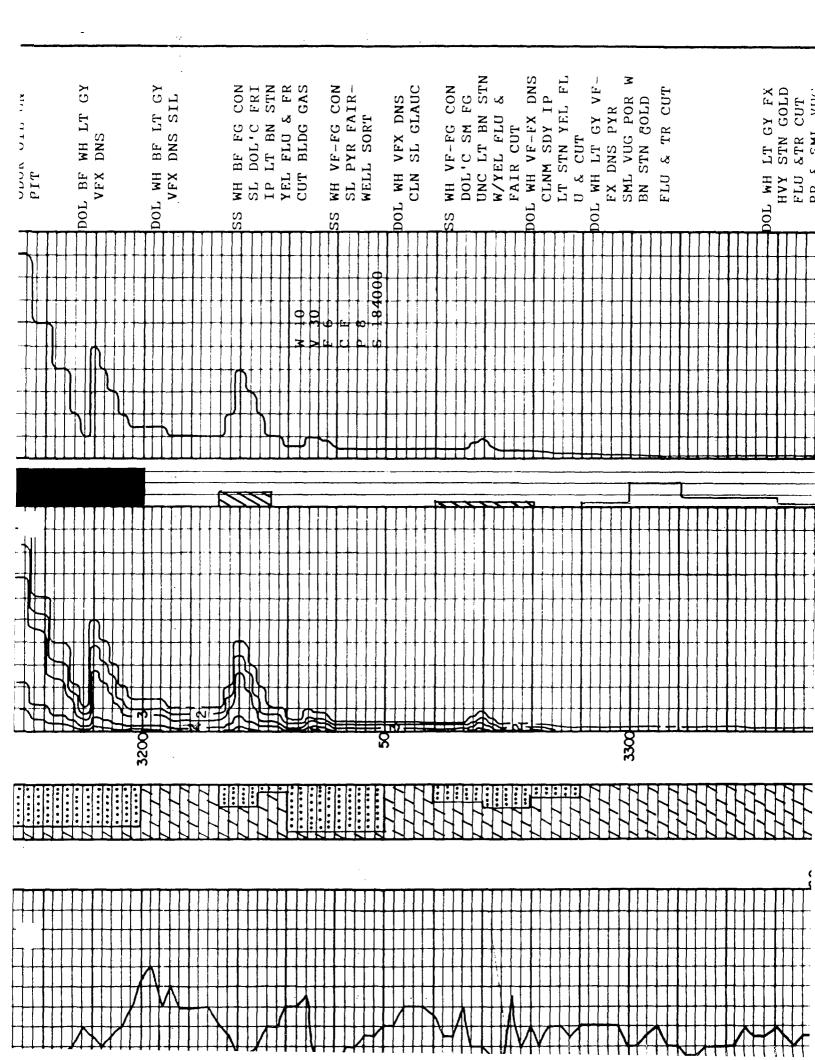








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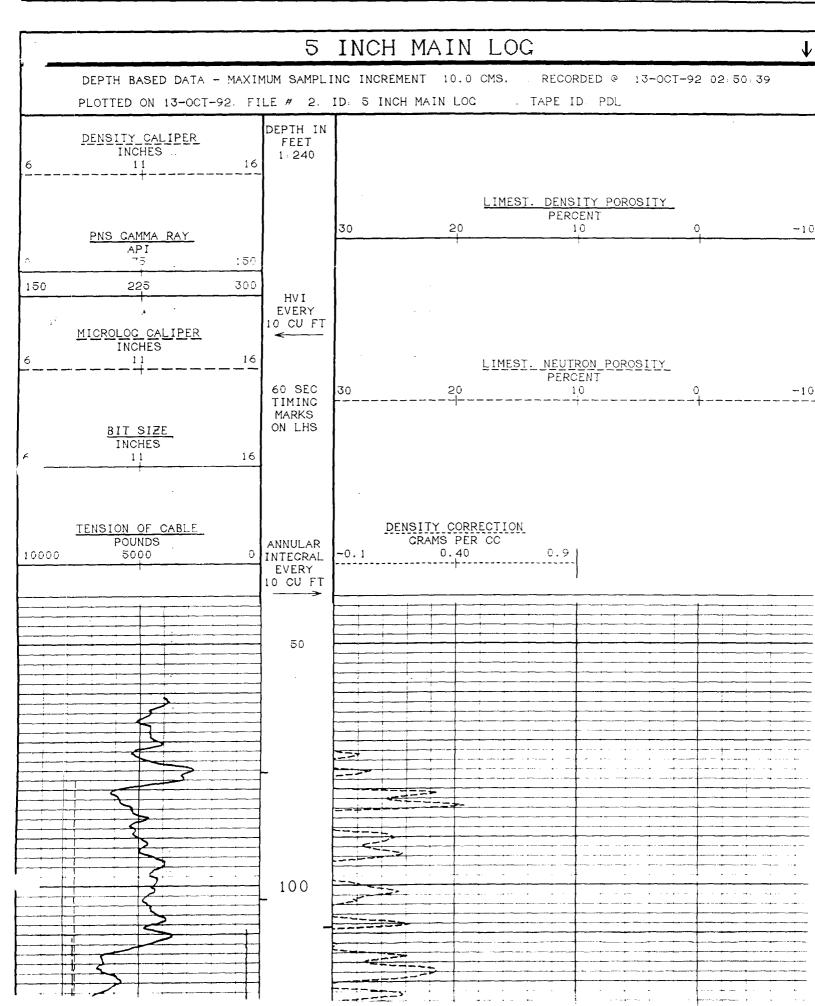
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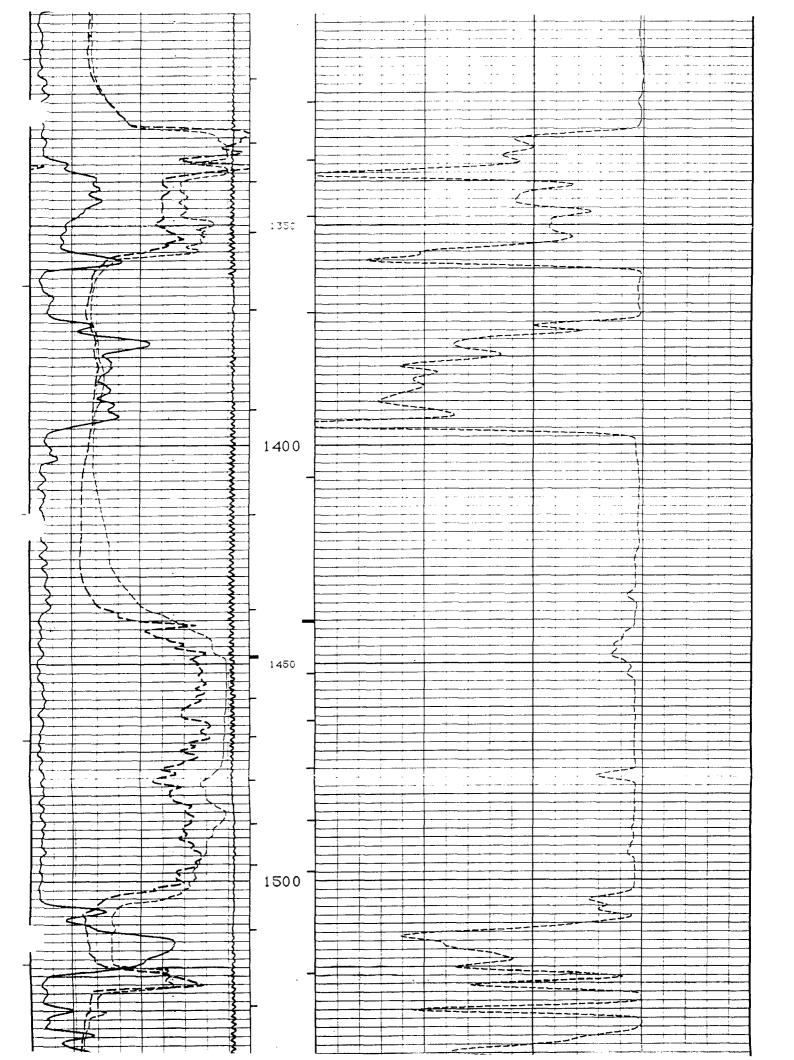
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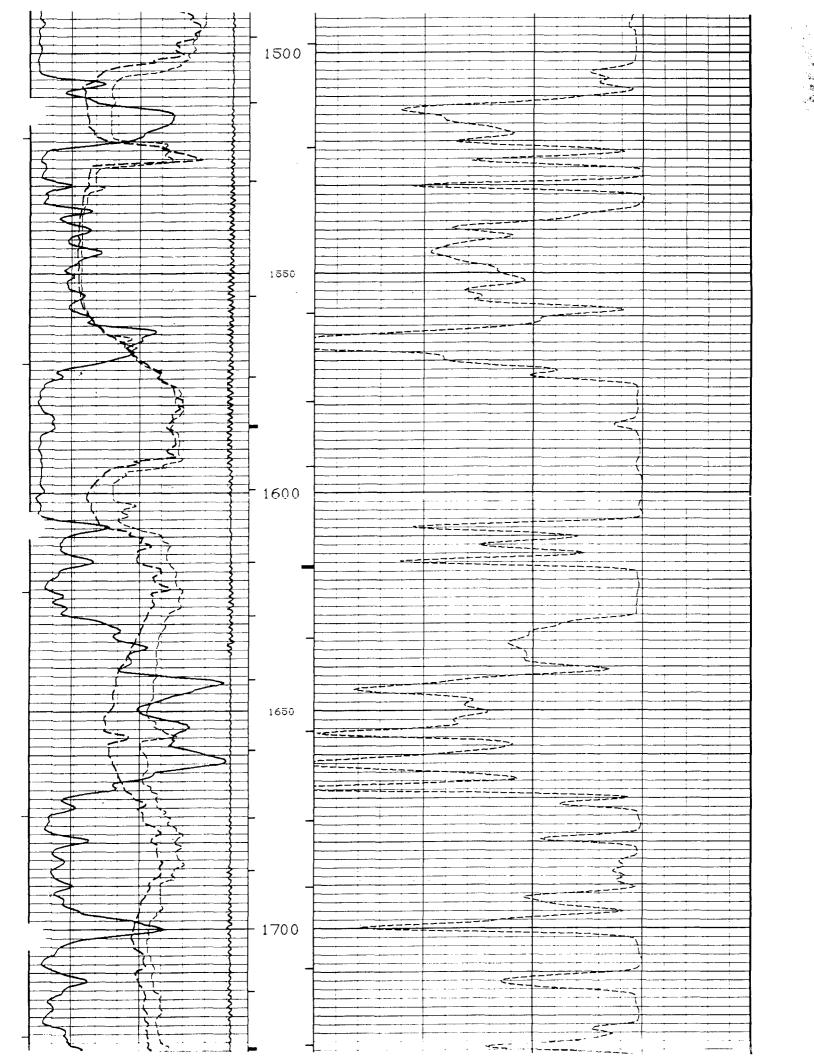
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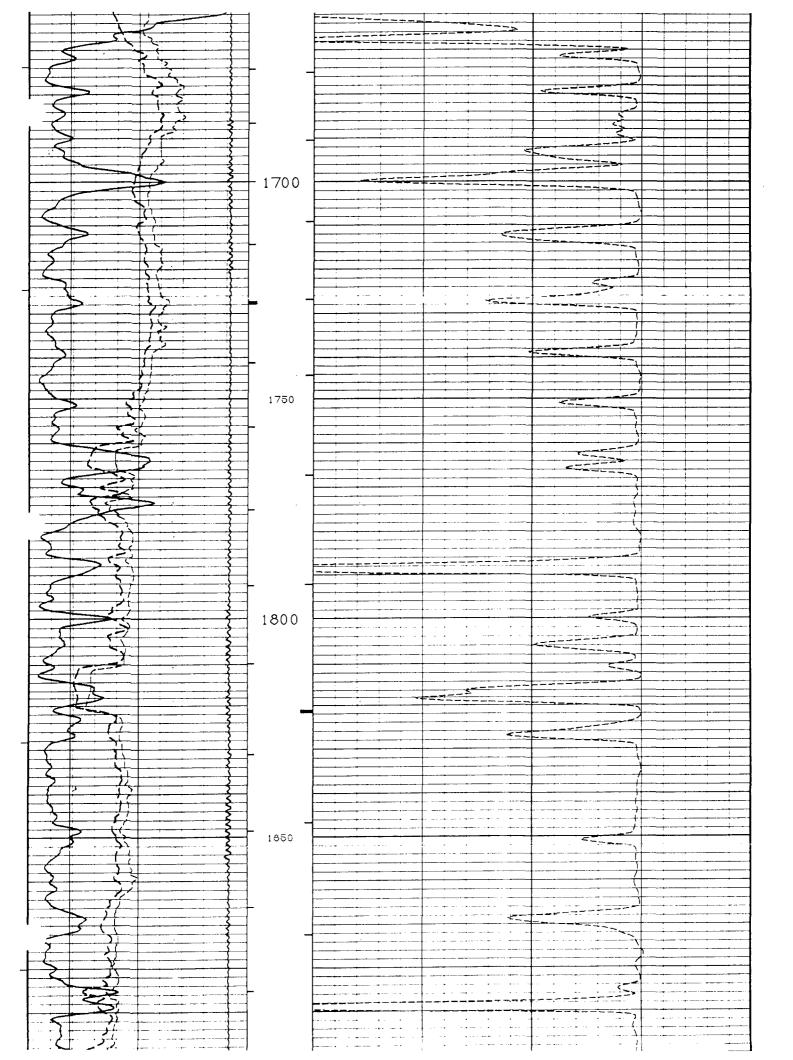
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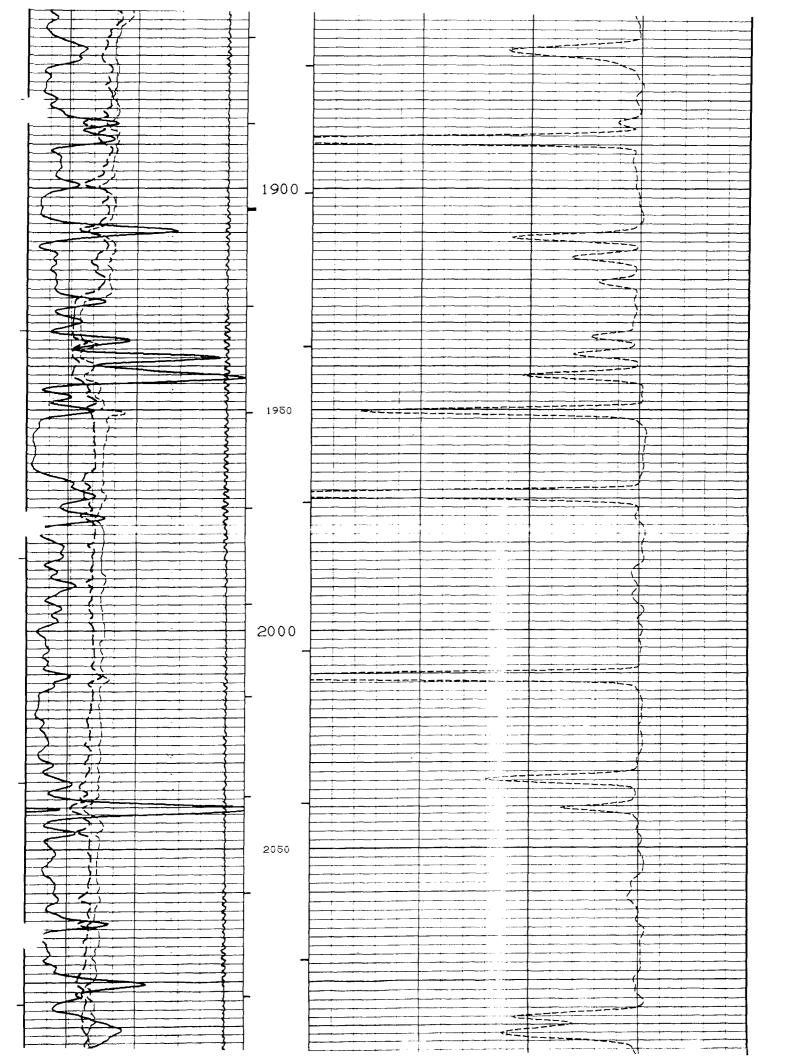


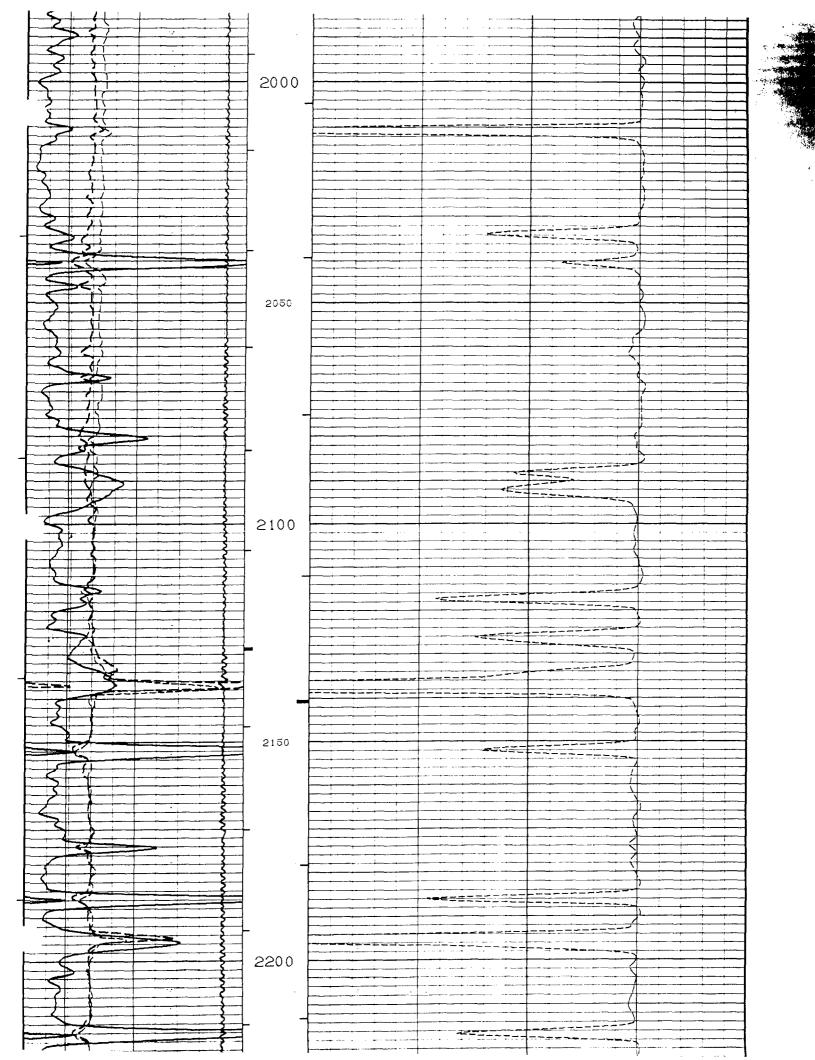
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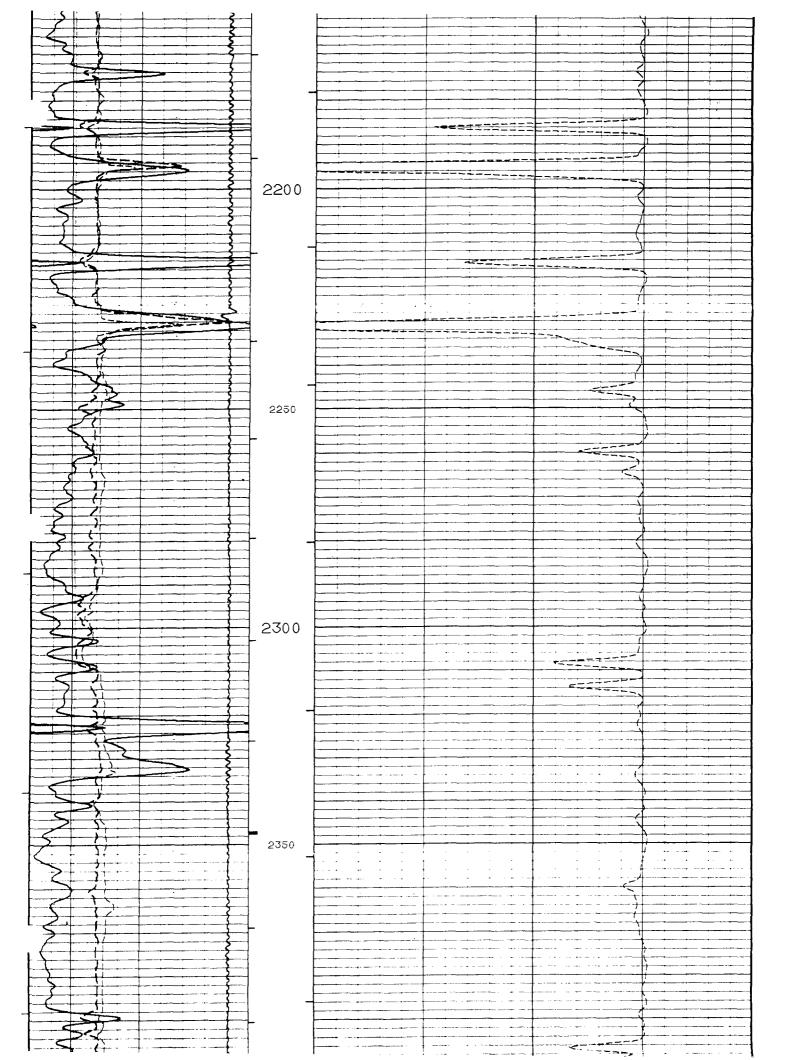


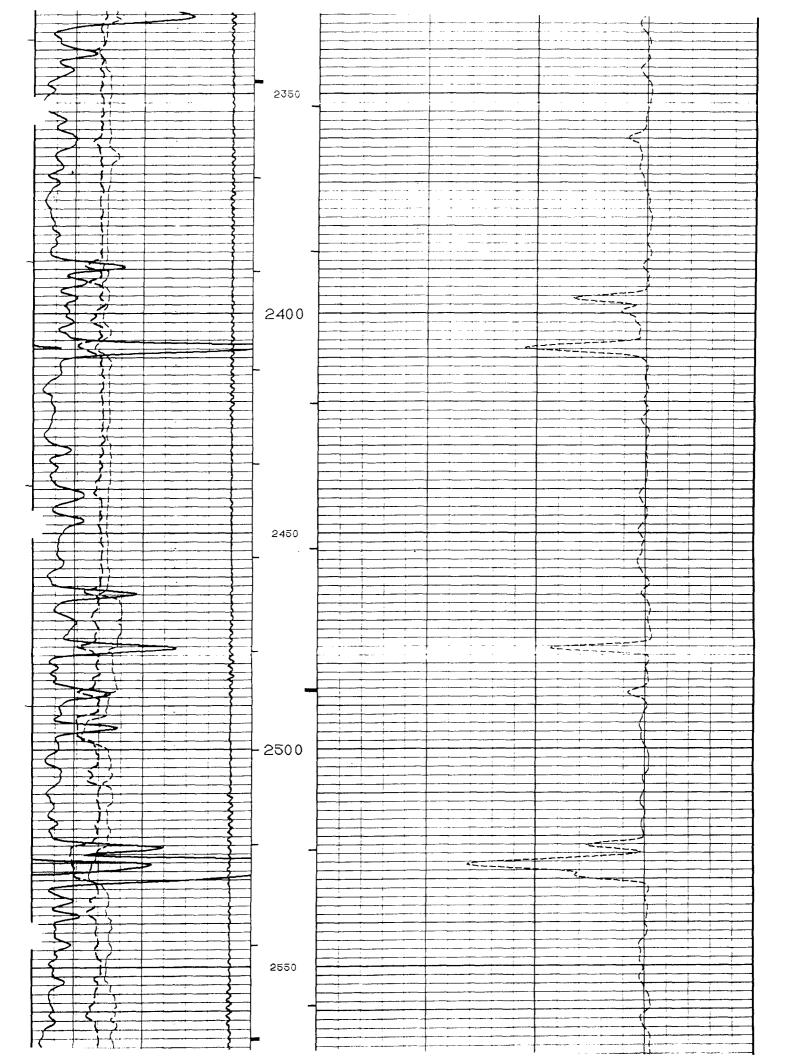


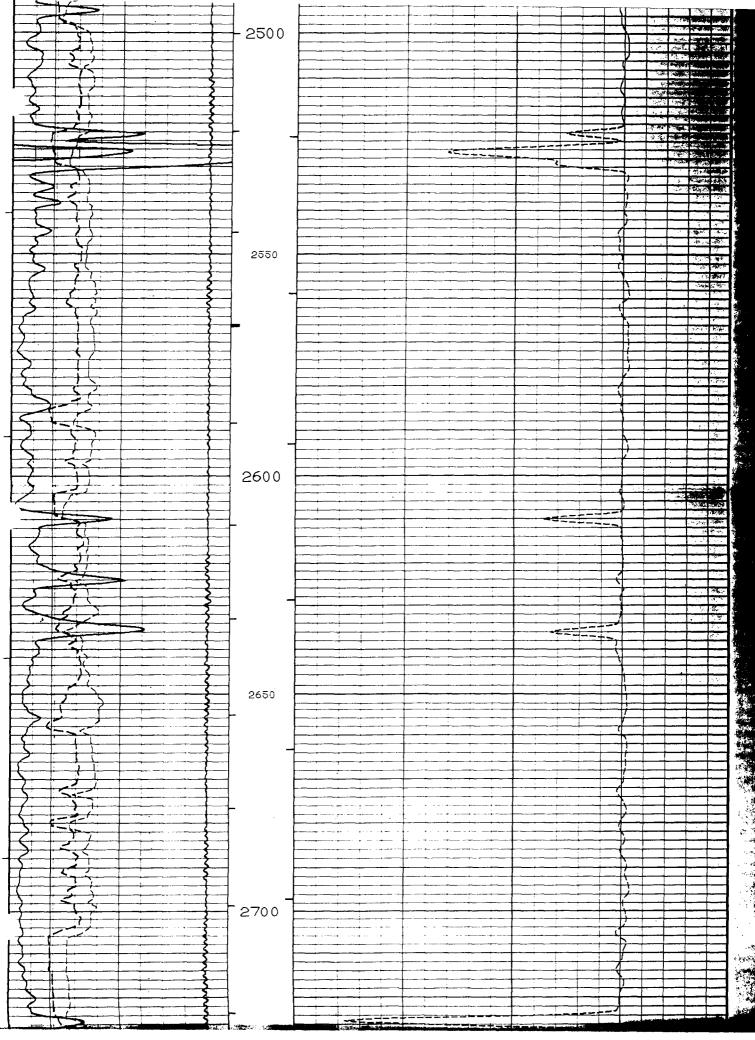


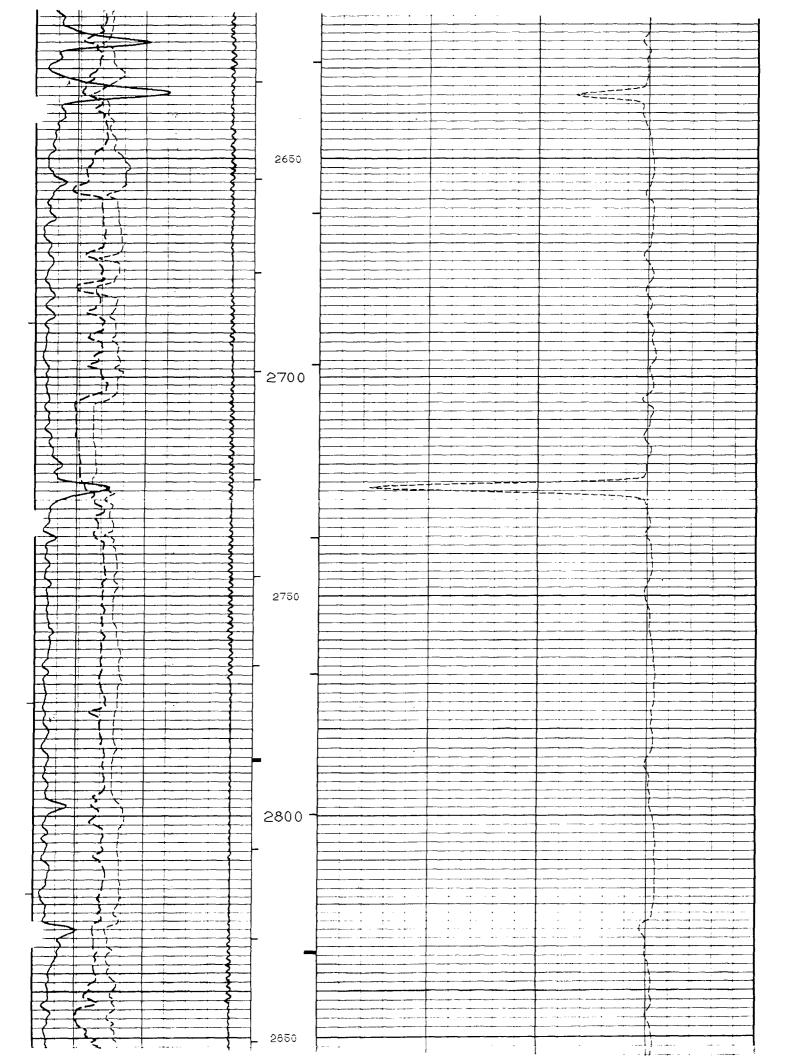


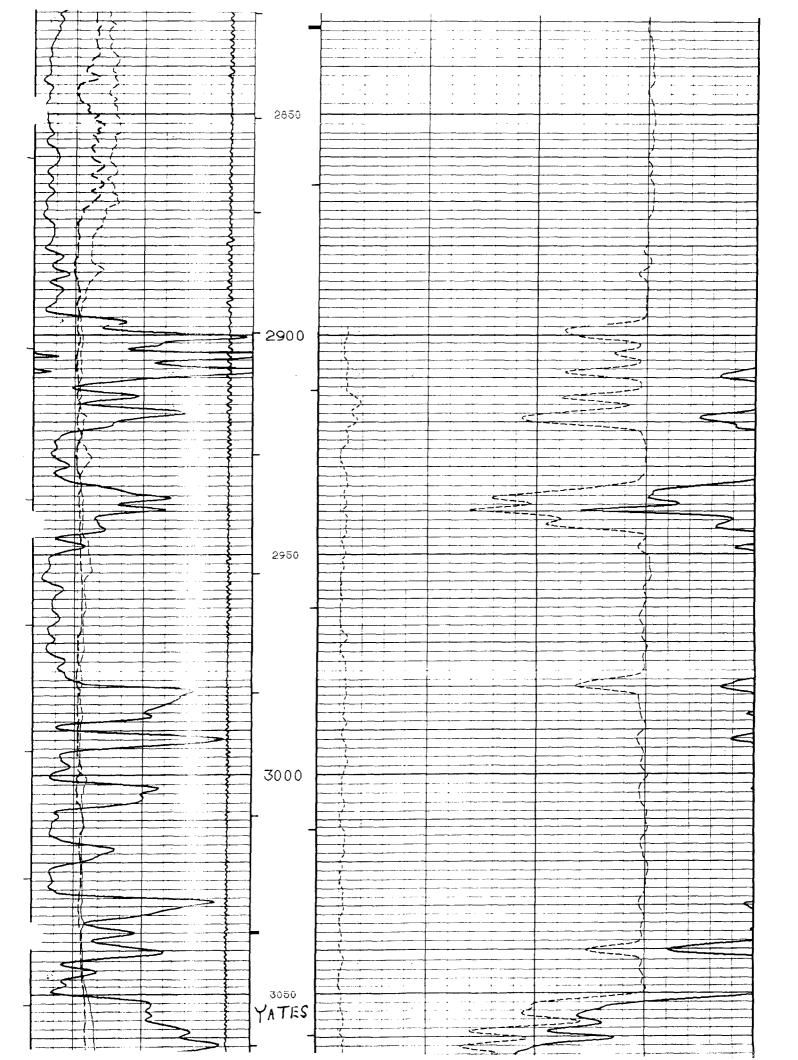


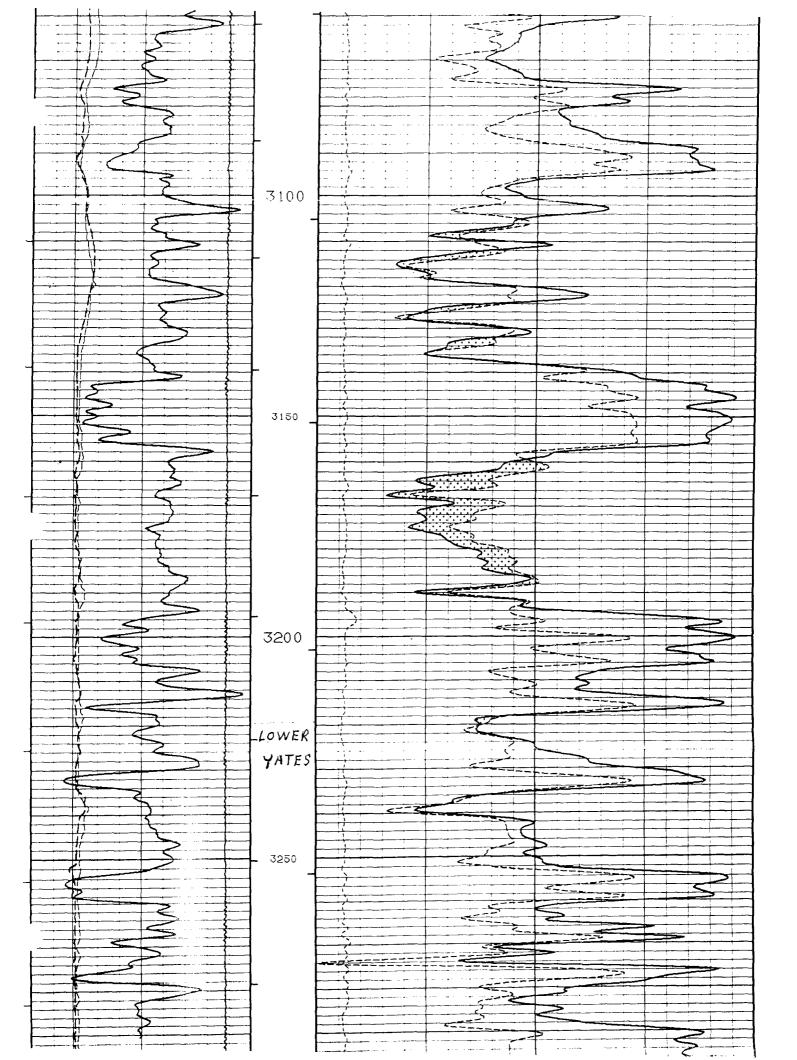


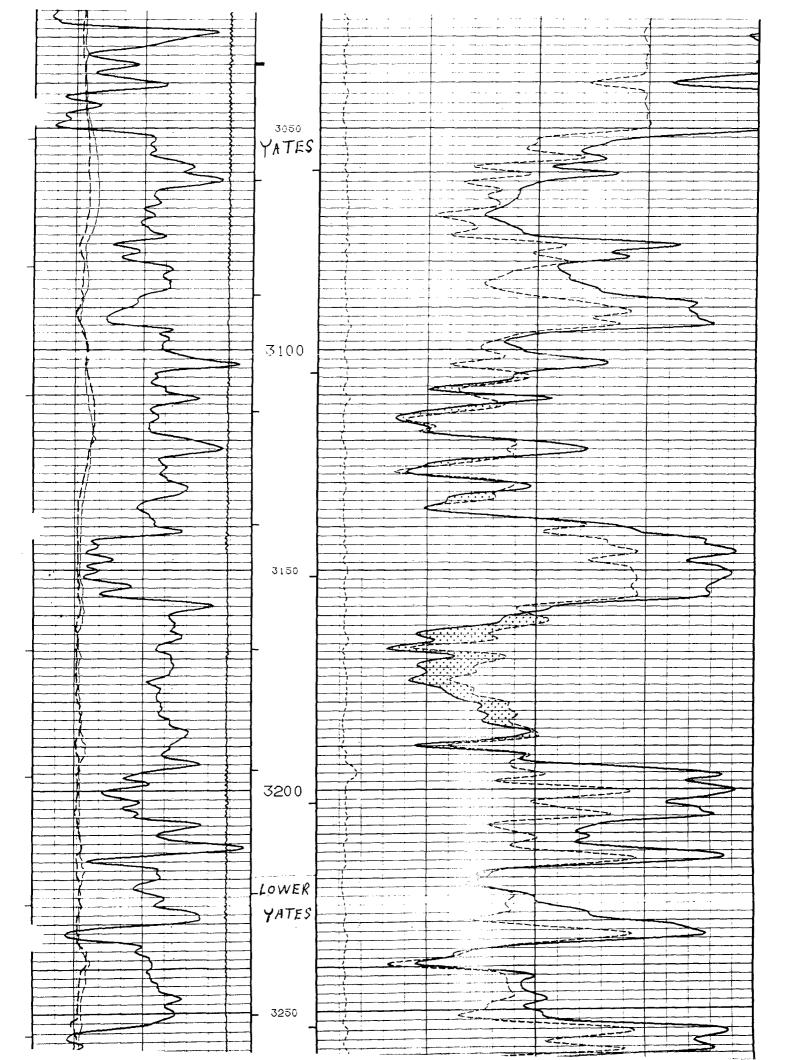


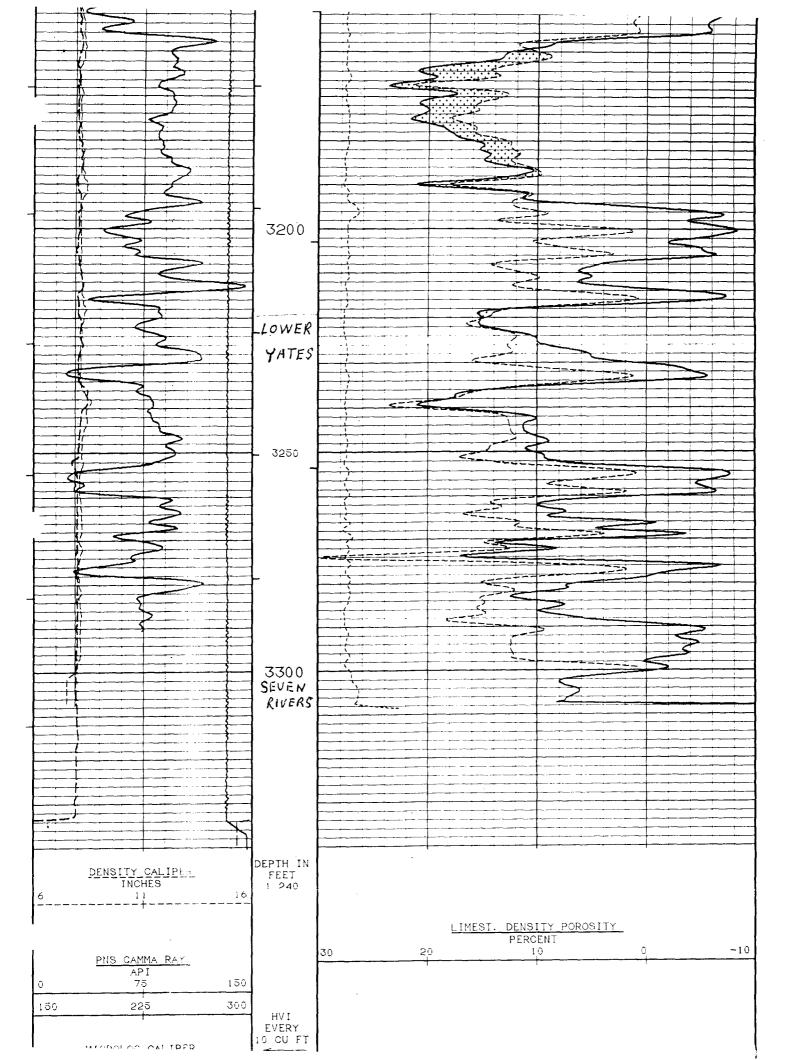












IN THE MATTER OF THE HEARING CALLED BY THE OIL CONSERVATION COMMISSION OF NEW MEXICO FOR THE PURPOSE OF CONSIDERING:

> CASE NO. 9316 Order No. R-111-P

APPLICATION OF THE OIL CONSERVATION DIVISION UPON ITS OWN MOTION TO REVISE ORDER R-111, AS AMENDED, PERTAINING TO THE POTASH AREAS OF EDDY AND LEA COUNTIES, NEW MEXICO.

### ORDER OF THE COMMISSION

## BY THE COMMISSION:

This cause came on for hearing at 9:00 a.m. on February 18, 1988, at Santa Fe, New Mexico, before the Oil Conservation Commission of New Mexico, hereinafter referred to as the "Commission."

NOW, on this <u>21st</u> day of April, 1988, the Commission, a quorum being present, having considered the testimony presented and the exhibits received at said hearing, and being fully advised in the premises,

### FINDS THAT:

(1) Due public notice having been given as required by law, the Commission has jurisdiction of this cause and the subject matter thereof.

(2) Order R-111-A was entered July 14, 1955, and since that time no amendments have been entered, except amendments to Exhibit "A" attached thereto, despite significant advances in drilling technology and practices.

(3) Operation under Order R-111-A has become virtually unworkable because of 1) the lack of tolerance on the part of both oil/gas and potash industries in regarding the activities of the other industry in areas where leasehold interests are overlapping and 2) confusion recording the boundaries of the known Potash Leasing Area (KPLA) established by the U.S. Bureau of Land Management (BLM) and the R-111-A area as amended by Orders R-111-B through O. -2-Case No. 9316 Order No. R-111-P

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(4) The then Director of the Oil Conservation Division (OCD) by memorandum dated March 21, 1986 convened a study committee of volunteer representatives from the oil and potash industries and other interested parties.

(5) The committee met May 29, September 25-26, and November 13-14 (field trip) in 1986 and on March 19, 1987.

(6) By committee agreement a work committee was formed from the larger committee consisting of three members and one alternate from each industry and this work committee was chaired by the OCD Chief Petroleum Engineer and charged with the responsibility to develop proposed amendments to Order R-111-A. It met on April 30, May 1, July 23-24 and November 23, 1987.

(7) Each meeting of the work committee was held in the presence of representatives of both BLM and OCD; and at its final meeting November 23, 1987 an agreement was reached and signed by the committee members present, which agreement is attached hereto as Exhibit "B", for the purpose of providing background information and acknowledging the concensus reached by representatives of the Oil and Gas and Potash industries relating to the multiple use of resources in the potash area

(8) Exhibit "B" is regarded by the Commission as a report of both the work committee and the full study committee since a draft copy of a nearly identical agreement was furnished to each member of the study committee for comment, and comments received thereon were addressed at the final meeting.

(9) The agreement represents a compromise by both industries, the potash operators relinquishing lower grade marginal or uneconomic ore deposits in order to more fully protect their higher grade ore deposits; and the oil/gas operators receiving such lands containing sub-economic ore deposits as prospective drill-sites.

(10) The Oil and Gas Act, 70-2-3 F NMSA 1978, declares as waste "drilling or producing operations for oil or gas within any area containing commercial deposits of potash where such operations would have the effect unduly to reduce the total quantity of such commercial deposits of potash which may reasonably be recovered -- or where such operations would interfere unduly with the orderly commercial development of such potash deposits".

(11) The Oil and Gas Act in 70-2-12 B(17) empowers the Division "to regulate and, where necessary, prohibit drilling

-3-Case No. 9316 Order No. R-111-P

or producing operations for oil and gas" in areas which would cause waste as described in 70-2-3 F.

. .

(12) The report of the work committee presents a reasonable process for determining where wells for oil and gas would cause waste of potash and the pertinent portions of said report should be contained in the order as a reasonable process for prohibiting oil and gas drilling in such areas in the absence of substantial evidence that waste of potash as described by the statute would not result.

(13) Release of methane into potash mine workings would endanger the lives of miners and would render further mining activities uneconomic because of the additional, and more expensive safety requirements which would be imposed by the Mine Safety and Health Administration (MSHA) of the U.S. Department of Labor.

(14) Salt and potash deposits are essentially non-porous and impermeable but are inter-bedded with clay seams which, in an undisturbed state are porous but of extremely low permeability.

(15) Primary mining activity creates minor localized disturbance but secondary mining causes subsidence of the overburden the effects of which tend to expand beyond the mined out area a distance approximately equal to the depth of the mined area.

(16) During the drilling of wells for oil and gas, measures should be taken to protect the salt-protection casing from internal pressures greater than the designed burst resistance plus a safety factor so as to prevent any possible entry of methane into the salt and potash interval.

(17) A proposed revision of Order R-111-A was presented at the hearing and comments were received thereon both orally at the hearing and in writing subsequent to the hearing, the record being held open for two weeks subsequent to the hearing, as announced by the Chairman.

(18) Testimony and comments both in support and in opposition to the proposed revision of the order were received at the hearing and subsequent thereto, some pointing out that the number of oil or gas wells which could be drilled under the terms of the committee report would be reduced but no comments addressed the possible waste of potash as a result of additional drilling. -4-Case No. 9316 Order No. R-111-P

(19) One member of the work committee from the potash industry testified the proposed revision of Order R-111-A failed to prohibit drilling in the commercial ore areas and was therefore contrary to the work committee report and the Oil and Gas Act.

(20) The Commission cannot abdicate its discretion to consider applications to drill as exceptions to its rules and orders but in the interest of preventing waste of potash should deny any application to drill in commercial potash areas as recommended in the work committee report, unless a clear demonstration is made that commercial potash will not be wasted unduly as a result of the drilling of the well.

(21) Confusion can be reduced and efficiencies can be obtained by making the area covered by Order R-111 coterminous with the KPLA as determined by the BLM, and the area should be expanded and contracted by the regular pool nomenclature procedure rather than by separate hearings and further revisions of Order R-111.

(22) Expansion of the R-111 area to coincide with the KPLA will bring under the purview of this order areas where potash is either absent or non-commercial and such areas should be granted less stringent casing, cementing and plugging requirements, at the discretion of the OCD district supervisor.

(23) The proposed revision of Order R-111-A will permit the drilling of wells for oil or gas in areas previously not available for such drilling and will prevent waste of potash, and further, will serve to reduce confusion and uncertainty in the conduct of operations by both the potash and oil/gas industries, all to the benefit of the state and its citizens.

#### IT IS THEREFORE ORDERED THAT:

This order shall be known as The Rules and Regulations Governing the Exploration and Development of Oil and Gas in Certain Areas Herein Defined, Which Are Known To Contain Potash Reserves.

#### A. OBJECTIVE

APR 2.6 T.

The objective of these Rules and Regulations is to prevent waste, protect correlative rights, assure maximum conservation of the oil, gas and potash resources of New Mexico, and permit the economic recovery of oil, gas and potash minerals in the area hereinafter defined. -5-Case No. 9316 Order No. R-111-P

#### B. THE POTASH AREA

(1) The Potash Area, as described in Exhibit A attached hereto and made a part hereof, represents the area in various parts of which potash mining operations are now in progress, or in which core tests indicate commercial potash reserves. Such area is coterminous with the Known Potash Leasing Area (KPLA) as determined by the U.S. Bureau of Land Management (BLM).

(2) The Potash Area, as described in Exhibit "A" may be revised by the Division after due notice and hearing at the regular pool nomenclature hearings, to reflect changes made by BLM in its KPLA.

#### C. DRILLING IN THE POTASH AREA

(1) All drilling of oil and gas wells in the Potash Area shall be subject to these Rules and Regulations.

(2) No wells shall be drilled for oil or gas at a location which, in the opinion of the Division or its duly authorized representative, would result in undue waste of potash deposits or constitute a hazard to or interfere unduly with mining of potash deposits.

No mining operations shall be conducted in the Potash Area that would, in the opinion of the Division or its duly authorized representative, constitute a hazard to oil or gas production, or that would unreasonably interfere with the orderly development and production from any oil or gas pool.

(3) Upon discovery of oil or gas in the Potash Area, the Oil Conservation Division may promulgate pool rules for the affected area after due notice and hearing in order to address conditions not fully covered by these rules and the general rules.

(4) The Division's District Supervisor may waive the requirements of Sections D and F which are more rigorous than the general rules upon satisfactory showing that a location is outside the Life of Mine Reserves (LMR) and surrounding buffer zone as defined hereinbelow and that no commercial potash resources will be unduly diminished.

(5) All encounters with flammable gas, including hydrogen sulfide, during drilling operations shall be reported immediately to the appropriate OCD District office followed by a written report of same. -6-Case No. 9316 Order No. R-111-P

#### D. DRILLING AND CASING PROGRAM

(1) For the purpose of the regulations and the drilling of wells for oil and gas, shallow and deep zones are defined as follows:

(a) The shailow zone shall include all formations above the base of the Delaware Mountain Group or, above a depth of 5,000 feet, whichever is lesser.

(b) The deep zone shall include all formations below the base of the Delaware Mountain Group or, below a depth of 5,000 feet, whichever is lesser.

(c) For the purpose of identification, the base of the Delaware Mountain Group is hereby identified as the geophysical log marker found at a depth of 7485 feet in the Richardson and Bass No. 1 Rodke well in Section 27, Township 20 South, Range 31 East, NMPM, Eddy County, New Mexico.

#### (2) Surface Casing String:

(a) A surface casing string of new or used oil field casing in good condition shall be set in the "Red Be section of the basal Rustler formation immediately above the salt section, or in the anhydrite at the top of the salt section, as determined necessary by the regulatory representative approving the drilling operations, and the cement shall be circulated to the surface.

(b) Cement shall be allowed to stand a minimum of twelve (12) hours under pressure and a total of twenty-four (24) hours before drilling the plug or initiating tests.

(c) Casing and water-shut-off tests shall be made both before and after drilling the plug and below the casing seat as follows:

> (i) If rotary tools are used, the mud shall be displaced with water and a hydraulic pressure of six hundred (600) pounds per square inch shall be applied. If a drop of one hundred (100) pounds per square inch or more should occur within thirty (30) minutes, corrective measures shall be applied.

> (ii) If cable tools are used, the mush shall be bailed from the hole, and if the

-7-Case No. 9316 Order No. R-111-P

> hole does not remain dry for a period of one hour, corrective measures shall be applied.

(d) The above requirements for the surface casing string shall be applicable to both the shallow and deep zones.

#### (3) Salt Protection String:

(a) A salt protection string of new or used oil field casing in good condition shall be set not less than one hundred (100) feet nor more than six hundred (600) feet below the base of the salt section; provided that such string shall not be set below the top of the highest known oil or gas zone. With prior approval of the OCD District Supervisor the wellbore may be deviated from the vertical after completely penetrating Marker Bed No. 126 (USGS) but that section of the casing set in the deviated portion of the wellbore shall be centralized at each joint.

(b) The salt protection string shall be cemented, as follows:

(i) For wells drilled to the shallow zone, the string may be cemented with a nominal volume of cement for testing purposes only. If the exploratory test well is completed as a productive well, the string shall be re-cemented with sufficient cement to fill the annular space back of the pipe from the top of the first cementing to the surface or to the bottom of the cellar, or may be cut and pulled if the production string is cemented to the surface as provided in sub-section D (5)(a)(i) below.

(ii) For wells drilled to the deep zone, the string must be cemented with sufficient cement to fill the annular space back of the pipe from the casing seat to the surface or to the bottom of the cellar.

(c) If the cement fails to reach the surface or the bottom of the cellar, where required, the top of the cement shall be located by a temperature, gamma ray or other survey and additional cementing shall be done until the cement is brought to the point required. -8-Case No. 9316 Order No. R-111-P

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(d) The fluid used to mix with the cement shall be saturated with the salts common to the zones penetrated and with suitable proportions but not less than 1% of calcium chloride by weight of cement.

(e) Cement shall be allowed to stand a minimum of twelve (12) hours under pressure and a total of twenty-four (24) hours before drilling the plug or initiating tests.

(f) Casing tests shall be made both before and after drilling the plug and below the casing seat, as follows:

(i) If rotary tools are used, the mud shall be displaced with water and a hydraulic pressure of one thousand (1000) pounds per square inch shall be applied. If a drop of one hundred (100) pounds per square inch or more should occur within thirty (30) minutes, corrective measures shall be applied.

(ii) If cable tools are used, the mud shall be bailed from the hole and if the hole does not remain dry for a period of one hour, corrective measures shall t applied.

(g) The Division, or its duly authorized representative, may require the use of centralizers on the salt protection string when in their judgment the use of such centralizers would offer further protection to the salt section.

(h) Before drilling the plug a drilling spool installed below the bottom blowout preventer or the wellhead casing outlet shall be equipped with a rupture disc or other automatic pressure-relief device set at 80% of the API-rated burst pressure of new casing or 60% of the API-rated burst pressure of used casing. The disc or relief device should be connected to the rig choke manifold system so that any flow can be controlled away from the rig. The disc or relief device shall remain installed as long as drilling activities continue in the well until the intermediate or production casing is run and cemented.

(i) The above requirements for the salt protection string shall be applicable to both the shallow an deep zones except for sub-section D (3) (b) (i) and (ii) above. -9-Case No. 9316 Order No. R-111-P

#### (4) Intermediate String:

(a) In drilling wells to the deep zone for oil or gas, the operator shall have the option of running an intermediate string of pipe, unless the Division requires an intermediate string be run.

(b) Cementing procedures and casing tests for the intermediate string shall be the same as provided under sub-sections D (3) (c), (e) and (f) for the salt protection string.

#### (5) Production String:

(a) A production string shall be set on top or through the oil or gas pay zone and shall be cemented as follows:

(i) For wells drilled to the shallow zone the production string shall be cemented to the surface if the salt protection string was cemented only with a nominal volume for testing purposes, in which case the salt protection string can be cut and pulled before the production string is cemented; provided, that if the salt protection string was cemented to the surface, the production string shall be cemented with a volume adequate to protect the pay zone and the casing above such zone.

(ii) For wells drilled to the deep zone, the production string shall be cemented with a volume adequate to protect the pay zone and the casing above such zone; provided, that if no intermediate string shall have been run and cemented to the surface, the production string shall be cemented to the surface.

(b) Cementing procedures and casing tests for the production string shall be the same as provided under sub-section D (3) (c), (e) and (f) for the salt protection string; however if high pressure oil or gas production is discovered in an area, the Division may promulgate the necessary rules to prevent the charging of the salt section. -10-Case No. 9316 Order No. R-111-P

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#### E. DRILLING FLUID FOR SALT SECTION

The fluid used while drilling the salt section shall consist of water, to which has been added sufficient salts of a character common to the zone penetrated to completely saturate the mixture. Other admixtures may be added to the fluid by the operator in overcoming any specific problem. This requirement is specifically intended to prevent enlarged drill holes.

#### F. PLUGGING AND ABANDONMENT OF WELLS

(1) All wells heretofore and hereafter drilled within the Potash Area shall be plugged in a manner and in accordance with the general rules or field rules established by the Division that will provide a solid cement plug through the salt section and any water-bearing horizon and prevent liquids or gases from entering the hole above or below the salt section.

(2) The fluid used to mix the cement shall be saturated with the salts common to the salt section penetrated and with suitable proportions but not more than three (3) percent of calcium chloride by weight of cement being considered the desired mixture whenever possible.

#### G. DESIGNATION OF DRILLABLE LOCATION FOR WELLS

Within ninety (90) days following (a) effective date of this Order and annually thereafter by January 31 if revised, each potash lessee, without regard to whether the lease covers State or Federal lands, shall file with the District Manager, BLM, and the State Land Office (SLO), a designation of the potash deposits considered by the potash lessee to be its life-of-mine reserves ("LMR"). For purposes of this Agreement, "life-of-mine reserves" means those potash deposits within the Potash Area reasonably believed by the potash lessee to contain potash ore in sufficient thickness and grade to be mineable using current day mining methods, equipment and technology. Information used by the potash lessee in identifying its LMR shall be filed with the BLM and SLO but will be considered privileged and confidential "trade secrets and commercial. .information" within the meaning of 43 C.F.R.§2.13(c)(4) (1986), Section 19-1-2.1 NMSA 1978, and not subject to public disclosure.

(b) Authorized officers of the BLM and SLO shall review the information submitted by each potash lessee

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in support of its LMR designation on their respective lands and verify upon request, that the data used by the potash lessee in establishing the boundaries of its LMR is consistent with data available to the BLM and SLO. Any disputes between the BLM and potash lessee concerning the boundary of a designated LMR shall be resolved in accordance with the Department of Interior's Hearings and Appeals Procedures, 43 C.F.R. Part 4 (1986).

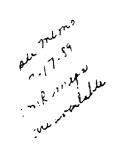
(c) A potash lessee may amend its designated LMR by filing a revised designation with the BLM and SLO accompanied by the information referred to in Section A above. Such amendments must be filed by January 31 next following the date the additional data becomes available.

(d) Authorized officers of the BLM and SLO shall commit the designated LMR of each potash lessee to a map(s) of suitable scale and thereafter revise the map(s) as necessary to reflect the latest amendments to any designated LMRs. These maps shall be considered privileged and confidential and exempt from disclosure under 43 C.F.R. Part 2 and §19-1-2.1 NMSA 1978, and will be used only for the purposes set forth in this Order.

(e) The foregoing procedure can be modified by policy changes within the BLM and State Land Office.

(2) Before commencing drilling operations for oil or gas on any lands within the Potash Area, the well operator shall prepare a map or plat showing the location of the proposed well, said map or plat to accompany each copy of the Notice of Intention to Drill. In addition to the number of copies required by the Division, the well operator shall send one copy by registered mail to each potash operator holding potash leases within a radius of one mile of the proposed well, as reflected by the plats submitted under paragraph d (2). The well operator shall furnish proof of the fact that said potash operators were notified by registered mail of his intent by attaching return receipt to the copies of the Notice of Intention to Drill and plats furnished the Division.

(3) Drilling applications on federal lands will be processed for approval by BLM. Applications on state or patented lands will be processed by the Division and, in the case of state lands, in collaboration with the SLO. The Division will first ascertain from the BLM or SLO that the location is not within the LMR area. Active mine workings and mined-out areas shall also be treated as LMR. Any application to drill in the LMR area, including buffer zones, may be approved only by mutual agreement of lessor and lessees of



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both potash and oil and gas interests. Applications to drill outside the LMR will be approved as indicated below; provided there is no protest from potash lessee within 20 days of his receipt of a copy of the notice:

- (a) a shallow well shall be drilled no closer to the LMR than one-fourth (1/4) mile or 110% of the depth of the ore, whichever is greater.
- (b) A deep well shall be drilled no closer than one-half (1/2) mile from the LMR.

#### H. INSPECTION OF DRILLING AND MINING OPERATIONS

A representative of any potash lessee within a radius of one mile from the well location may be present during drilling, cementing, casing, and plugging of any or gas wells to observe conformance with these regulations. Likewise, a representative of the oil and gas lessee may inspect mine workings on his lease to observe conformance with these regulations.

#### 1. FILING OF WELL SURVEYS, MINE SURVEYS AND POTASH DEVELOPMENT PLANS

(1) Directional Surveys:

The Division may require an operator to file a certified directional survey from the surface to a point below the lowest known potash-bearing horizon on any well drilled within the Potash Area.

(2) Mine Surveys:

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Within 30 days after the adoption of this order and thereafter on or before January 31st of each year, each potash operator shall furnish the Division two copies of a plat of a survey of the location of his leaseholdings and all of his open mine workings, which plat shall be available for public inspection and on a scale acceptable to the Division.

#### J. APPLICABILITY OF STATEWIDE RULES AND REGULATIONS

All general statewide rules and regulations of the Oil Conservation Division governing the development, operation, and production of oil and gas in the State of New -13-Case No. 9316 Order No. R-111-P

Mexico not inconsistent or in conflict herewith, are hereby adopted and made applicable to the areas described herein.

IT IS FURTHER ORDERED THAT:

(1) Order R-111 and amendments through R-111-O are hereby rescinded.

(2) Jurisdiction of this cause is retained for the entry of such further orders as the Commission may deem necessary.

Done at Santa Fe, New Mexico on the day and year hereinabove designated.

STATE OF NEW MEXICO OIL CONSERVATION COMMISSION

WILLIAM R. HUMPHRIES, Member

Deline L. A Col

and Secretary

ERLING A. BROSTUEN, Member

0 WILLIAM J. LEMAY, Chairman

#### STATEMENT OF AGREEMENT ... TWEEN THE POTASH INDUSTRY AND OIL AND GAS INDUSTRY ON CONCURRENT OPERATIONS IN THE FOTASH AREA IN EDDY AND LEA COUNTIES, NEW MEXICO

#### Introduction

This Statement of Agreement sets forth the joint agreement of the Potash Industry and Oil and Gas Industry on important issues concerning the concurrent development of potash and oil and gas reserves in Eddy and Lea Counties, New Mexico. It represents the efforts of numerous representatives from each Industry over many months and is intended to resolve many of the disputes that have arisen as a result of concurrent oil and gas drilling activities in the vicinity of underground potash mining.

The parties recognize that this Agreement will not resolve all disputes or disagreements that may arise and that in some still be necessary regulatory intervention may By entering into this Agreement, however, each instances. industry recognizes the right of the other to develop its safe and economical manner and mineral resources in a acknowledges that concurrent development of multiple mineral resources places certain limits on each industry. Each also agrees that these limits can be better defined through good faith discussions among industry representatives familiar with industry technology and practices than repeated and prolonged litigation or administrative proceedings.

> EXHIBIT "B" CASE NO. 9316 ORDER NO. R-111-P

In attempting to accomplish this, each Industry has made concessions on issues considered critical to it in a good faith effort to obtain concessions from the other. For this reason, both Industries agree that the terms of this Statement ---Agreement are subject to the following conditions:

- 1. of Upon approval by representatives each Industry, the terms of the Agreement will be submitted must be adopted without to and New substantial Mexico 011 change by the Conservation Commission ("OCC") in lieu of the current Order R-111A, as amended;
- 2. The terms of the Agreement will be submitted to and must be adopted without substantial change by the U. S. Department of Interior, Bureau of Land Management ("BLM") in lieu of Section III (E) of the Secretary of the Interior's Order of October 21, 1986 [51 Fed. Reg. 39425];
- 3. Each Industry will use its best efforts to secure approval of the terms of the Agreement from the OCC and BLM; and
- 4. In the event the terms in the Agreement are not adopted without substantial change by both the OCC and the BLM, this Statement of Agreement will become null and void and will not be referred to by any Industry representative on the Study Committee in any future proceeding before the OCC or BLM.

It is the intention of the parties to this Agreement that: (1) certain areas of potash deposits, called "life-of-minereserves" or "LMR's," be permanently protected from oil and gas drilling activities; and (2) to make available for oil and gas drilling activities, certain areas within the Potash Area. The area of potash deposits protected will be determined in accordance with this Agreement but, generally speaking, will encompass the yellow, orange and a major portion of the blue



areas shown of the BLM Potash Resourc Map as it existed on October 1, 1984. Areas in the Potash Area that will be available for oil and gas drilling activities will be those areas outside the designated LMR's which, generally speaking, will be the red, green, grey and a minor portion of the blue areas shown on the BLM Potash Resources Map as it existed on October 1, 1984, less areas designated as buffer zones by this Agreement.

#### I. The Potash Area

A. The Area covered by this Agreement shall be known as the "Potash Area".

B. The "Potash Area" includes those tracts of land in Southeastern New Mexico, from the surface downward, which are designated as a "potash area" by the Secretary of the Department of Interior in Section V of the Order dated October 21, 1986 and published in the <u>Federal Register</u> on October 28, 1986 [51 Fed. Reg. 39426]. It shall also include any subsequent revisions to such designations. The terms "potash" and "commercial deposits of potash" shall have the same meaning as assigned by the U. S. Department of Interior.

C. It is the intent of the parties to this Agreement that the "Potash Area" designated by the State of New Mexico be identical to that designated by the U. S. Department of Interior. Accordingly, if the "potash area" designated in the Secretarial Order of October 21, 1986 [51 Fed. Reg. 39425] is revised, the OCC, on its own motion after notice and hearing as

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provided by applicable laws and regulations, will adopt the same revision.

#### II. Designation of Mine Reserves

Α. Within ninety (90) days following adoption of this Agreement by the OCC and BLM and annually thereafter by January 31 if revised, each potash lessee, without regard to whether the lease covers State or Federal lands, shall file with the District Manager, BLM, a designation of the potash deposits considered by the potash lessee to be its life-of-mine reserves ("LMR"). For purposes of this Agreement, "life-of-mine reserves" means those potash deposits within the Potash Area reasonably believed by the potash lessee to contain potash ore in sufficient thickness and grade to be mineable using current day mining methods, equipment and technology, Information used by the potash lessee in identifying its LMR shall be filed with the BLM but will be considered privileged and confidential. "trade secrets and commercial . . . information" within the meaning of 43 C.F.R. §2.13(c)(4) (1986) and not subject to public disclosure.

B. An authorized officer of the BLM shall review the information submitted by each potash lessee in support of its LMR designation and verify, upon request, that the data used by the potash lessee in establishing the boundaries of its LMR is consistent with data available to the BLM. Any disputes between the BLM and potash lessee concerning the boundary of a designated LMR shall be resolved in accordance with the 100 1000 1000 1000 1000 1000 1000

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Department of Interior's Hearings and Appeals Procedures, 4: C.F.R. Part 4 (1986).

C. A potash lessee may amend its designated LMR by filing a revised designation with the BLM accompanied by the information referred to in Section A above. Such amendments must be filed by January 31 next following the date the additional data becomes available.

D. An authorized officer of the BLM shall commit the designated LMR of each potash lessee to a map(s) of suitable scale and thereafter revise the map(s) as necessary to reflect the latest amendments to any designated LMRs. These maps shall be considered privileged and confidential and exempt from disclosure under 43 C.F.R. Part 2 and will be used only for the purposes set forth in this Agreement.

#### III. Drilling in the Potash Area

A. All oil and gas wells drilled in the Potash Area after approval of this Agreement by the OCC and BLM, including those currently pending before the OCC and/or BLM, shall be subject to the terms of this Agreement.

B. It is the policy of the OCC and BLM to approve or deny applications for permits to drill (APD's) in the Potash Area in accordance with the following:

1. LMR and Buffer Zone. No oil or gas well shall be allowed from a surface location: (a) within the LMR of any potash lessee; (b) within one-fourth (1/4) mile, or a distance equal to the depth of the ore plus ten percent (10%), whichever is greater, of the LMR of any potash lessee; or (c) where the well casing will pass within one-fourth (1/4) mile, or a distance equal to

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the depth of the ore plus ten percent (10%), whichever is greater, of the LMR of any potash lessee.

- 2. Outside Buffer Zone But Within One-Half (1/2) mile of LMR. An APD for an oil or gas well at a location more than one-fourth (1/4) mile, or a distance equal to the depth of the ore plus ten percent (10%), whichever greater, but less than one-half (1/2) mile from the LMR of any potash lessee may be approved only if: (a) the bottom hole location coes not extend below the base of the Delaware Mountain Group, and (b) the well is drilled in accordance with the cementing and casing requirements set forth in Section V.
- 3. More Than One-Half Mile But Less Than One Mile From An APD for an oil or gas well at a location more LMR. than one-half (1/2) mile but less than one mile from any potash lessee may the LMR o£ be approved regardless of the depth of the bottom hole location provided: (a) wells with bottom hole locations below the base of the Delaware Mountain Group are drilled in accordance with the cementing and casing requirements forth in Section V of this Agreement, and set (b) wells to bottom hole locations above the base of the Delaware Mountain Group may be drilled without to the requirements in Section V of this regard Agreement but must be drilled in accordance with then current Industry safety standards.
- 4. <u>More Than One Mile From LMR</u>. An APD for an oil or gas well at a location more than one mile from the LMR of any potash lessee may be approved regardless of the depth of the bottom hole location and without regard to the requirements of Section V of this Agreement.
- 5. Open Mine Workings. No oil or gas well shall be allowed from any location where the well casing will pass within one-fourth (1/4) mile or a distance equal to the depth of the ore plus ten percent (10%), whichever is greater, of any open mine workings.
- 6. <u>Abandoned Mine Workings</u>. No oil or gas well shall be allowed from any location where the well casing will pass through or within one-fourth (1/4) of a mile or a distance equal to the depth of the ore plus ten percent (10%), whichever is greater, of any abandoned mine workings that are connected to an existing mine by an opening or barrier of one-hundred (100) feet or less unless the APD is accompanied by the sealing and safety plan and certification described in Paragraph C below.

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7. An APD for a directionally drilled oil or gas well to bottom hole location underlying the LMR of an<sup>.</sup> а potash be approved the lessee may subject to limitations and requirements set forth in Paragraphs drilled holes above. Directionally shall bi 6 they until completel drilled vertically have penetrated Marker Bed No. 126 (U.S.G.S.) of the Salad Formation at which time they may be deviated.

C. An oil and gas operator desiring to drill a well to bottom hole location that does not extend below the base of the Delaware Mountain Group from a surface location where the wel casing will pass through or within one-fourth (1/4) of a mile or a distance equal to the depth of the ore plus ten percen (10%), whichever is greater, of abandoned mine workings that are connected to an existing mine by any opening or a barrie of one-hundred (100) feet or less shall prepare and submit to all affected potash lessees a plan and program for sealing of the area to be penetrated from other mine workings. Approva any such plan shall be in the sole discretion of th o£ affected potash lessees. Any approved plan shall be attache by the oil and gas operator to the APD for filing with the OCC The oil and gas operator shall also complete and/or BLM. certification in the form prescribed by the OCC and/or BLM tha the drilling of such well will not create a safety hazard t affected potash lessees.

D. It is the belief of both parties that the provision of this Agreement eliminate the need for drilling islands an three-year mining plans and, therefore, both agree that n drilling islands will be established in the Potash Area and th filing of three-year mining plans will be eliminated.

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#### IV. Location of Wells and Notice to Potash Lessee

A. The BLM, upon request, will advise oil and gas lessees of the surface locations where wells will be allowed to develop the leases. Oil or gas leases covering areas designated a  $\Box 4R$ by a potash lessee will be unitized to the extent possible with other areas where drilling is allowed.

Β. An oil or gas operator desiring to drill an oil or gas well in the Potash Area or within one (1) mile of a potash lease shall prepare and file an APD with the OCC and/or BLM along with a map or plat showing the location of the proposed well. One copy of the APD and map or plat shall be served by registered mail, return receipt requested, on all potasi leaseholders within one (1) mile of the proposed well location. However, if the APD is for an oil or gas well that will penetrate abandoned mine workings, all potash leaseholder: in the Potash Area shall be notified. Proof of such ser co shall be attached to the APD and filed with the OCC and/o BLM. Within twenty (20) days of service of an APD and require documents, any potash leaseholder within one (1) mile of th proposed well location (or any affected potash lessee if th proposed well will penetrate abandoned mine workings) may fil objection with the OCC to the proposed well. an If th objections cannot be resolved by agreement of the parties, th matter shall be referred for hearing before the OCC.

C. The failure of a potash leaseholder to object to well location or its agreement to the drilling location

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103 128 - referred to in this Agreement shall not constitute a release of liability. Oil and gas leaseholders and those persons and/or entities involved in the development of the lease shall be responsible as provided by law for any damages caused by them to any person by the release of gases or liquids into the strata or atmosphere as a result of drilling activities.

#### V. Drilling and Casing Program

[Same as current R-111-A]

## VI. <u>Drilling Fluid for Salt Section</u> [Same as current R-111-A]

#### VII. Plugging and Abandonment of Wells

[Same as current R-111-A]

#### VIII. Filing of Well Surveys

The OCC may require an oil and gas operator to file a certified directional survey from the surface to a point below the lowest known potash bearing horizon on all wells drilled in the Potash Area. All encounters with flammable gases, including  $H_2S$ , shall be reported by the operator to the OCC.

#### IX. Additional Safety Requirements and Emergency Action

A. All oil and gas drilling activities within the Potash Area shall be performed using appropriate technology, equipment, and procedures to reduce the hazards of such activities to underground mines and miners and be conducted in accordance with the prudent operator standard.

B. Only the minimum number of wells necessary to develop an oil or gas lease will be allowed within the Potash Area.

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event the increased oil and gas drilling С. activities allowed by this Agreement result in a safety hazard or if data developed in the course of such increased activities make it reasonably appear that such activities are or wi become a hazard to underground miners or mining activities, the BLM and/or OCC will; upon request, initiate proceedings in accordance with NMSA 70-2-23 and/or other applicable laws and regulations to review such data and take whatever emergency steps are found necessary to eliminate such hazard. Potash lessees may, in addition, initiate actions for injunctive relief under NMSA 70-2-29. The taking or failure to take such action by the OCC or any potash lessee shall not relieve the oil and gas lessee from liability for any damages caused by its oil and gas activities.

AGREED TO AND APPROVED THIS 2311 DAY OF lon 1987. BY THE FOLLOWING REPRESENTATIVES OF EACH INDUSTP\* COMPRISING THE POTASH-OIL AREA SPECIAL RULES STUDY COMMITTEE:

For the ON and Gas Industry:

For the Potash Undustry:

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#### EXHIBIT "A" CASE 9316 ORDER R-111-P

#### CONSOLIDATED LAND DESCRIPTION OF THE KNOWN POTASH LEASING AREA, AS OF FEBRUARY 3, 1988

EDDY COUNTY, NEW MEXICO

1011101111111	SOUTH, RANCE 30 EAST, NMPM
Section 10:	SE/4 SE/4
Section 11:	SE/4 SE/4 S/2 SW/4
Section 13:	W/2 SW/4 and SE/4 SW/4
Section 14:	W/2 NE/4, NW/4 and S/2
Section 15:	E/2 NE/4, SE/4 SW/4 and SE/4
	N/2, N/2 SW/4, SE/4 SW/4 and SE/4
Section 23:	ALL
Section 24:	N/2 NW/4, SW/4 NW/4 and NW/4 SW/4
Section 26:	NE/4, N/2 NW/4 and SE/4 NW/4
Section 27:	N/2 NE/4 and NE/4 NW/4
TOWNSHIP	SOUTH, RANCE 29 EAST, NMPM
Soction 11.	SOUTH, RANGE 29 EAST, WIPM
Section 17:	SE/4 SE/4 SE/4 NE/4 and S/2
Section 12:	52/4 NE/4 dru 5/2
Section 13:	A11 NE/4, SE/4 NW/4 and S/2
Section 14:	NE/4, 5E/4 NW/4 and 5/2
	SE/4 SE/4
	NE/4, E/2 W/2 and SE/4
Section 23:	ALL
Section 24:	A11 NW/4 NW/4 N/2 NE/4 and NW/4
Section 25:	NW/4 NW/4
Section 26:	N/2 NE/4 and NW/4
Section 27:	NE/4 and E/2 NW/4
TOWNSHIP 19	
	SUUTT, RANGE SU EAST, NMPM
Section 2:	SOUTH, RANGE 30 EAST, NMPM
Section 2:	SW/4
Section 2:	W/2 SW/4, SE/4 SW/4, S/2 SE/4 and
Section 2: Section 3:	
Section 2: Section 3:	SW/4 W/2 SW/4, SE/4 SW/4, S/2 SE/4 and NE/4 SE/4 Lots 3 and 4, SW/4 NE/4, S/2 NW/4
Section 2: Section 3: Section 4:	SW/4 W/2 SW/4, SE/4 SW/4, S/2 SE/4 and NE/4 SE/4 Lots 3 and 4, SW/4 NE/4, S/2 NW/4 and S/2
Section 2: Section 3:	SW/4 W/2 SW/4, SE/4 SW/4, S/2 SE/4 and NE/4 SE/4 Lots 3 and 4, SW/4 NE/4, S/2 NW/4 and S/2 Lots 1, 2, and 3, S/2 NE/4,
Section 2: Section 3: Section 4: Section 5:	SW/4 W/2 SW/4, SE/4 SW/4, S/2 SE/4 and NE/4 SE/4 Lots 3 and 4, SW/4 NE/4, S/2 NW/4 and S/2 Lots 1, 2, and 3, S/2 NE/4, S/2 NW/4 and S/2
Section 2: Section 3: Section 4: Section 5: Section 6:	SW/4 W/2 SW/4, SE/4 SW/4, S/2 SE/4 and NE/4 SE/4 Lots 3 and 4, SW/4 NE/4, S/2 NW/4 and S/2 Lots 1, 2, and 3, S/2 NE/4, S/2 NW/4 and S/2 S/2 SE/4 and NE/4 SE/4
Section 2: Section 3: Section 4: Section 5: Section 6: Sections 7 6	SW/4 W/2 SW/4, SE/4 SW/4, S/2 SE/4 and NE/4 SE/4 Lots 3 and 4, SW/4 NE/4, S/2 NW/4 and S/2 Lots 1, 2, and 3, S/2 NE/4, S/2 NW/4 and S/2 S/2 SE/4 and NE/4 SE/4 to 10 inclusive
Section 2: Section 3: Section 4: Section 5: Section 6: Sections 7 ( Section 11:	SW/4 W/2 SW/4, SE/4 SW/4, S/2 SE/4 and NE/4 SE/4 Lots 3 and 4, SW/4 NE/4, S/2 NW/4 and S/2 Lots 1, 2, and 3, S/2 NE/4, S/2 NW/4 and S/2 S/2 SE/4 and NE/4 SE/4 to 10 inclusive S/2 NE/4, NW/4 NW/4 and S/2
Section 2: Section 3: Section 4: Section 5: Section 6: Sections 7 1 Section 11: Section 12:	SW/4 W/2 SW/4, SE/4 SW/4, S/2 SE/4 and NE/4 SE/4 Lots 3 and 4, SW/4 NE/4, S/2 NW/4 and S/2 Lots 1, 2, and 3, S/2 NE/4, S/2 NW/4 and S/2 S/2 SE/4 and NE/4 SE/4 to 10 inclusive S/2 NE/4, NW/4 NW/4 and S/2 NE/4, S/2 NW/4 and S/2
Section 2: Section 3: Section 4: Section 5: Section 6: Sections 7 ( Section 11: Section 12: Section 13:	SW/4 W/2 SW/4, SE/4 SW/4, S/2 SE/4 and NE/4 SE/4 Lots 3 and 4, SW/4 NE/4, S/2 NW/4 and S/2 Lots 1, 2, and 3, S/2 NE/4, S/2 NW/4 and S/2 S/2 SE/4 and NE/4 SE/4 to 10 inclusive S/2 NE/4, NW/4 NW/4 and S/2 NE/4, S/2 NW/4 and S/2 NE/4, W/2, N/2 SE/4 and SW/4 SE/4
Section 2: Section 3: Section 4: Section 5: Section 6: Section 5: Section 11: Section 12: Section 13: Sections 14	SW/4 W/2 SW/4, SE/4 SW/4, S/2 SE/4 and NE/4 SE/4 Lots 3 and 4, SW/4 NE/4, S/2 NW/4 and S/2 Lots 1, 2, and 3, S/2 NE/4, S/2 NW/4 and S/2 S/2 SE/4 and NE/4 SE/4 to 10 inclusive S/2 NE/4, NW/4 NW/4 and S/2 NE/4, S/2 NW/4 and S/2 NE/4, W/2, N/2 SE/4 and SW/4 SE/4 to 18 inclusive
Section 2: Section 3: Section 4: Section 5: Section 6: Sections 7 ( Section 11: Section 12: Section 13:	SW/4 W/2 SW/4, SE/4 SW/4, S/2 SE/4 and NE/4 SE/4 Lots 3 and 4, SW/4 NE/4, S/2 NW/4 and S/2 Lots 1, 2, and 3, S/2 NE/4, S/2 NW/4 and S/2 S/2 SE/4 and NE/4 SE/4 to 10 inclusive S/2 NE/4, NW/4 NW/4 and S/2 NE/4, S/2 NW/4 and S/2 NE/4, W/2, N/2 SE/4 and SW/4 SE/4 to 18 inclusive Lots 1, 2, and 3, NE/4, E/2 NW/4,
Section 2: Section 3: Section 4: Section 5: Section 6: Section 5: Section 11: Section 12: Section 13: Sections 14	SW/4 W/2 SW/4, SE/4 SW/4, S/2 SE/4 and NE/4 SE/4 Lots 3 and 4, SW/4 NE/4, S/2 NW/4 and S/2 Lots 1, 2, and 3, S/2 NE/4, S/2 NW/4 and S/2 S/2 SE/4 and NE/4 SE/4 to 10 inclusive S/2 NE/4, NW/4 NW/4 and S/2 NE/4, S/2 NW/4 and S/2 NE/4, W/2, N/2 SE/4 and SW/4 SE/4 to 18 inclusive Lots 1, 2, and 3, NE/4, E/2 NW/4, NE/4 SW/4, E/2 SE/4 and
Section 2: Section 3: Section 4: Section 5: Section 6: Section 6: Section 11: Section 12: Section 13: Sections 14 Section 19:	SW/4 W/2 SW/4, SE/4 SW/4, S/2 SE/4 and NE/4 SE/4 Lots 3 and 4, SW/4 NE/4, S/2 NW/4 and S/2 Lots 1, 2, and 3, S/2 NE/4, S/2 NW/4 and S/2 S/2 SE/4 and NE/4 SE/4 to 10 inclusive S/2 NE/4, NW/4 NW/4 and S/2 NE/4, S/2 NW/4 and S/2 NE/4, W/2, N/2 SE/4 and SW/4 SE/4 to 18 inclusive Lots 1, 2, and 3, NE/4, E/2 NW/4,

#### -2-EXHIBIT "A" con'd

#### Section 25: NW/4 NW/4 Section 26: NE/4 NE/4, W/2 NE/4, W/2, W/2 SE/4 and SE/4 SE/4 Section 27: ALL Section 28: ALL Section 29: E/2, E/2 NW/4 and NW/4 NW/4 Section 32: E/2 and SE/4 SW/4 Section 33 to 35 inclusive NW/4 NW/4, S/2 NW/4 and S/2 Section 36: TOWNSHIP 19 SOUTH, RANGE 31 EAST, NMPM Section 7: Lots 1, 2, and 3 and E/2 NW/4 Section 18: Lots 1, 2, and 3 and SW/4 NE/4, E/2 NW/4 and NE/4 SW/4 Section 31: Lot 4 Section 34: SE/4 SE/4 Section 35: S/2 SW/4 and SW/4 SE/4

#### LEA COUNTY, NEW MEXICO

S/2 SE/4

Section 36:

T. Correction

TOWNSHIP 19 SOUTH, RANGE 32 EAST, NMPMSection 31:Lot 4Section 33:Lots 1 to 4 inclusive and N/2 S/2Section 34:Lots 1 to 4 inclusive and N/2 S/2Section 35:Lots 1 to 4 inclusive and N/2 S/2Section 36:Lots 1 to 4 inclusive, SE/4 NE/4NW/4SW/4 and NE/4 SE/4	2 2
TOWNSHIP 19 SOUTH, RANGE 33 EAST, NMPM Section 22: SE/4 NE/4, E/2 SW/4 and SE/4 Section 23: S/2 NW/4, SW/4, W/2 SE/4 and SE/4 SE/4	
Section 25: SW/4 NW/4, W/2 SW/4 and SE/4 SW/4 Section 26: All Section 27: All	4
Section 28: S/2 SE/4 and NE/4 SE/4 Section 30: Lots 2 to 4 inclusive, S/2 NE/4, SE/4 NW/4, E/2 SW/4 and SE/ Section 31: All	
Section 32: NE/4, S/2 NW/4 and S/2 Sections 33 to 35 inclusive Section 36: W/2 NE/4, SE/4 NE/4, NW/4 and S/	2
TOWNSHIP 19 SOUTH, RANGE 34 EAST, NMPM	

Section 31: Lots 3 and 4

### -3-EXHIBIT "A" con'd

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# EDDY COUNTY, NEW MEXICO

TOWNSHIP 20 SOUTH, RANGE 29 EAST, NAMPM
Section 1: SE74 NE74 and E72 SE74
Section 13: SW/4 NW/4, W/2 SW/4 and SE/4 SW/4
Section 1:       SE/4 NE/4 and E/2 SE/4         Section 13:       SW/4 NW/4, W/2 SW/4 and SE/4 SW/4         Section 14:       NW/4 NE/4, S/2 NE/4, NW/4 and S/2         Section 15:       E/2 E/2, SE/4 SW/4 and W/2 SE/4
Section 15: E/2 E/2, SE/4 SW/4 and W/2 SE/4
Section 22: E/2 and E/2 NW/4
Section 23: All
Section 24: SW/4 NE/4, W/2, W/2 SE/4 and
SE/U SE/U
SE/4 SE/4 Section 25: N/2, SW/4, W/2 SE/4 and NE/4 SE/4
Section 26: All
Section 27: E/2
Section 27: E/2
Section 34: NE/4
Section 35: N/2
Section 36: W/2 NE/4 and NW/4
TOWNSHIP 20 SOUTH, RANGE 30 EAST, NMPM
Sections 1 to 4 inclusive
Section 5: Lots 1 to 3 inclusive, S/2 N/2
and S/2
Section 6: Lots 5, 6, and 7, S/2 NE/4, E/2 SW/4
and SE/U
Section 7: Lots 1 and 2, E/2 and E/2 NW/4
Sections 8 to 17 inclusive
Section 18: E/2
Section 19: E/2 and SE/4 SW/4
Sections 20 to 29 inclusive
Section 30: Lots 1 to 3 inclusive, E/2 and
E/2 W/2
Section 31: NE/4 and E/2 SE/4
Sections 32 to 36 inclusive
TOWNSHIP 28 CONTH DANCE 21 FACT MADA
TOWNSHIP 20 SOUTH, RANGE 31 EAST, NMPM Section 1: Lots 1 to 3 inclusive, S/2 N/2
and S/2
Section 2: All
Section 3: Lots 1 and 2, S/2 NE/4 and SE/4
Section 6: Lots 4 to 7 inclusive, SE/4 NW/4,
E/2 SW/4, W/2 SE/4 and
SE/4 SE/4
Section 7: All
Section 8: S/2 N/2 and S/2
Section 9: S/2 NW/4, SW/4, W/2 SE/4 and
SE/4 SE/4
Section 10: E/2 and SW/4
Sections 11 to 36 inclusive

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#### -4-EXHIBIT "A".con'd

#### LEA COUNTY, NEW MEXICO

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TOWNSHIP 20 SOUTH, RANGE 32 EAST, NMPM Sections 1 to 4 inclusive S/2 SE/4 Section 5: Lots 4 to 7 inclusive, SE/4 NW/4, Section 6: E/2 SW/4 and SW/4 SE/4 Sections 7 to 36 inclusive TOWNSHIP 20 SOUTH, RANGE 33 EAST, NMPM Sections 1 to 36 inclusive TOWNSHIP 20 SOUTH, RANGE 34 EAST, NMPM Lots 3 to 7 inclusive, SE/4 NW/4, Section 6: E/2 SW/4, W/2 SE/4 and SE/4 SE/4 Section 7: ALL SW/4, S/2 NW/4, W/2 SE/4 and Section 8: SE/4 SE/4 Section 16: W/2 NW/4, SE/4 NW/4, SW/4 and S/2 SE/4 Sections 17 to 21 inclusive N/2 NW/4, SW/4 NW/4, SW/4, W/2 SE/4. Section 22: and SE/4 SE/4 Section 26: SW/4, W/2 SE/4 and SE/4 SE/4 Sections 27 to 35 inclusive Section 36: SW/4 NW/4 and W/2 SW/4

#### EDDY COUNTY, NEW MEXICO

TOWNSHIP 21 SOUTH, RANGE 29 EAST, NMPM
Sections 1 to 3 inclusive
Section 4: Lots 1 through 16, NE/4 SW/4 and
SE/4
Section 5: Lot 1
Section 10: N/2 NE/4, SE/4 NE/4 and SE/4 SE/4
Sections 11 to 14 inclusive
Section 15: E/2 NE/4 and NE/4 SE/4
Section 23: N/2 NE/4
Section 24: E/2, N/2 NW/4 and SE/4 NW/4
Section 25: NE/4 NE/4 and S/2 SE/4
Section 35: Lots 2 to 4 inclusive, 5/2 NE/4,
NE/4 SW/4 and N/2 SE/4
Section 36: Lots 1 to 4 inclusive, NE/4,
E/2 NW/4 and N/2 S/2

#### -5-EXHIBIT "A" con'd

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TOWNSHIP 21 SOUTH, RANGE 31 EAST, NMPM Sections 1 to 36 inclusive

#### LEA COUNTY, NEW MEXICO

TOWNSHIP 21 SOUTH, RANGE 32 EAST, NMPM
Sections 1 to 27 inclusive
Section 28: N/2 and N/2 S/2
Sections 29 to 31 inclusive
Section 32: NW/4 NE/4, NW/4 and NW/4 SW/4 Section 34: N/2 NE/4
Section 34: N/2 NE/4
Section 35: N/2 N/2 Section 36: E/2, N/2 NW/4, SE/4 NW/4 and
Section 36: E/2, N/2 NW/4, SE/4 NW/4 and
NE/4 SW/4
TOWNSHIP 21 SOUTH, RANGE 33 EAST, NMPM
Section 1: Lots 2 to 7 inclusive, Lots 10 to
14 inclusive, N/2 SW/4 and
SW/4 SW/4
Sections 2 to 11 inclusive
Section 12: NW/4 NW/4 and SW/4 SW/4
Section 12: NW/4 NW/4 and SW/4 SW/4 Section 13: N/2 NW/4, S/2 N/2 and S/2
Sections 14 to 24 inclusive
Section 25: N/2, SW/4 and W/2 SE/4
Sections 26 to 30 inclusive
Section 31: Lots 1 to 4 inclusive, NE/4,
E/2 W/2, N/2 SE/4 and
SW/4 SE/4
SW/4 SE/4 Section 32: N/2 and NW/4 SW/4
Section 33+ N/2
Section 34: NE/4, N/2 NW/4 and E/2 SE/4 Section 35: All Section 36: W/2 NE/4, NW/4 and S/2
Section 35: All
Section 36: W/2 NE/4, NW/4 and S/2
TOWNSHIP 21 SOUTH, RANGE 34 EAST, NMPM
Section 17: W/2
Section 18: All
Section 19: Lots 1 to 4 inclusive, NE/4,
E/2 W/2, N/2 SE/4 and
SW/4 SE/4
Section 20: NW/4 NW/4
Section 20: NW/4 NW/4 Section 30: Lots 1 and 2 and NE/4 NW/4 Section 31: Lots 3 and 4
Section 31: Lots 3 and 4
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EDDY COUNTY, NEW MEXICO

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#### -6-EXHIBIT "A" con'd

TOWNSHIP 22 SOUTH, RANGE 29 EAST, NMPM Sections 1 and 2 inclusive Section 3: SE/4 SW/4 and SE/4 Section 9: S/2 NE/4 and S/2 Sections 10 to 16 inclusive Section 17: S/2 SE/4 Section 19: SE/4 NE/4 and E/2 SE/4 Sections 20 to 28 inclusive Section 29: N/2 N/2, S/2 NE/4 and SE/4 NE/4 NE/4 Section 30: Lots 1 to 4 inclusive, S/2 NE/4, Section 31: E/2 W/2 and SE/4 Sections 32 to 36 inclusive

TOWNSHIP 22 SOUTH, RANGE 30 EAST, NMPM Sections 1 to 36 inclusive

TOWNSHIP 22 SOUTH, RANGE 31 EAST, NMPM Sections 1 to 11 inclusive Section 12: NW/4 NE/4, NW/4 and NW/4 SW/4 Section 13: S/2 NW/4 and SW/4 Sections 14 to 23 inclusive Section 24: W/2 Section 25: NW/4 Section 26: NE/4 and N/2 NW/4 Sections 27 to 34 inclusive

LEA COUNTY, NEW MEXICO

TOWNSHIP 22 SOUTH, RANGE 32 EAST, NMPM	
Section 1: Lot 1	
Section 6: Lots 2 to 7 inclusive and SE/4 NW/4	4
TOWNSHIP 22 SOUTH, RANGE 33 EAST, NMPM	
Section 1: Lots 1 to 4 inclusive, S/2 N/2 and	
N/2 S/2	
Section 2: All	
Section 3: Lot 1, SE/4 NE/4 and SE/4	
Section 6: Lot 4	
Section 10: NE/4	
Section 11: NW/4 NE/4 and NW/4	
TOWNSHIP 22 SOUTH, RANGE 34 EAST, NMPM	
Section 6: Lots 4 to 6 inclusive	



-7-EXHIBIT "A" con'd

#### EDDY COUNTY, NEW MEXICO

TOWNSHIP 23 SOUTH, RANGE 28 EAST, NMPM Section 1: Lot 1 TOWNSHIP 23 SOUTH, RANGE 29 EAST, NMPM Sections 1 to 5 inclusive Section 6: Lots 1 to 6 inclusive, S/2 NE/4, SE/4 NW/4, E/2 SW/4 and SE/4 Section NE/4 and NE/4 NW/4 7: N/2, N/2 SW/4, SE/4 SW/4 and SE/4 Section 8: Sections 9 to 16 inclusive Section 17: NE/4 and E/2 SE/4 Sections 21 to 23 inclusive Section 24: N/2, SW/4 and N/2 SE/4 Section 25: W/2 NW/4 and NW/4 SW/4 Section 26: ALL Section 27: ALL Section 28: N/2, N/2 SW/4, SE/4 SW/4 and SE/4 Section 33: N/2 NE/4 and NE/4 NW/4 Section 34: NE/4, E/2 NW/4, NW/4 NW/4, NE/4 SW/4 and SE/4 Section 35: ALL Section 36: W/2 NE/4, NW/4 and N/2 SW/4 TOWNSHIP 23 SOUTH, RANGE 30 EAST, NMPM Sections 1 to 18 inclusive Section 19: N/2, N/2 SW/4, SE/4 SW/4 and SE/4 Section 20: AII Section 21: ALL Section 22: N/2, S/2 SW/4, N/2 S/2 and SE/4 SE/4 Sections 23 to 25 inclusive Section 26: E/2, SE/4 NW/4 and SW/4 Section 27: N/2 NW/4, SW/4 NW/4, SE/4 SW/4, S/2 SE/4 and NE/4 SE/4 Section 28: N/2 and SW/4Section 29: N/2 and SE/4 Section 30: N/2 NE/4 Section 32: N/2 NE/4 Section 33: SE/4 NE/4, N/2 NW/4, NE/4 SE/4 and S/2 SE/4 Sections 34 to 36 inclusive TOWNSHIP 23 SOUTH, RANGE 31 EAST, NAIPA Section 2: Lot 4, SW/4 NW/4 and W/2 SE/4 Sections 3 to 7 inclusive Section 8: NE/4 NE/4, W/2 NE/4 and W/2 Section 9: N/2 N/2 KINTZ IS STREET CEIN CEIN Section 10.

-8-EXHIBIT "A" con'd

Section 12: SW/4 NW/4 and SW/4 Section 13: SW/4 NE/4, W/2 and W/2 SE/4 Section 14: ALL Section 15: E/2, SE/4 NW/4 and SW/4 SW/4 and S/2 SE/4 Section 16: Section 17: NW/4 and S/2 Sections 18 to 23 inclusive Section 24: W/2 NE/4 and W/2 Section 25: W/2 NE/4, NW/4, N/2 SW/4 and NW/4 SE/4 Sections 26 to 34 inclusive N/2 NW/4 and SW/4 NW/4 Section 35: TOWNSHIP 24 SOUTH, RANGE 29 EAST, NMPM Section Lots 2 to 4 inclusive 2: Section Lot 1 3: TOWNS 11P 24 SOUTH, RANGE 30 EAST, NMPM Section 1: Lots 1 to 4 inclusive, S/2 N/2, SW/4 and NW/4 SE/4 Section 2: ALL Section 3: ALL Section 4: Lots 1 and 2, S/2 NE/4, SE/4 NW/4, SW/4 SW/4, E/2 SW/4 and SE/4 N/2, N/2 SW/4, SE/4 SW/4 and SE/4 Section 9: ALL Section 10: Section 11: ALL W/2 NW/4 and NW/4 SW/4 Section 12: W/2 NE/4 and NW/4 Section 14: Section 15: NE/4 and N/2 NW/4 TOWNSHIP 24 SOUTH, RANGE 31 EAST, NMPM Section Lots 2 to 4 inclusive, SW/4 NE/4, 3: S/2 NW/4, SW/4 and W/2 SE/4 Section ALL 4: Section 5: Lots 1 to 4 inclusive, S/2 N/2, N/2 S/2 and SE/4 SE/4 Section 6: Lots 1 to 6 inclusive, S/2 NE/4, SE/4 NW/4, NE/4 SW/4 and N/2 SE/4 and NW/4 Section 9: E/2 Section 10: W/2 NE/4 and W/2 Lots 1 to 4 inclusive, S/2 N/2 and Section 35: N/2 5/2 Lots 1 and 2, SW/4 NW/4 and N/2 SW/1 Section 36: TOWNSHIP 25 SOUTH, RANGE 31 EAST, NMPM Section Lots 3 and 4 and S/2 NW/4 1: Lots 1 to 4 inclusive and S/2 N/2 Section 2:



#### Kellahin and Kellahin

W. THOMAS KELLAHIN\*

\*NEW MEXICO BOARD OF LEGAL SPECIALIZATION RECOGNIZED SPECIALIST IN THE AREA OF NATURAL RESOURCES-OIL AND GAS LAW

JASON KELLAHIN (RETIRED 1991)

ATTORNEYS AT LAW EL PATIO BUILDING II7 NORTH GUADALUPE POST OFFICE BOX 2265 SANTA FE. NEW MEXICO 87504-2265

TELEPHONE (505) 982-4285 TELEFAX (505) 982-2047

June 20, 1995

#### HAND DELIVERED

Mr. Michael E. Stogner Chief Hearing Examiner Oil Conservation Division 2040 South Pacheco Santa Fe, New Mexico 87505 JUN 2 0 1995

Oil Conservation Division



Re: Application of Stevens & Tull, Inc. for a Waiver of the salt protection string requirements of Order R-111-P for certain wells in the Oil/Potash Area, Lea County, New Mexico

Dear Mr. Stogner:

On behalf of Stevens & Tull, Inc., please find enclosed our referenced application which we request be set for hearing on the next available Examiner's docket now scheduled for July 13, 1995. Also enclosed is our proposed advertisement to be used for the OCD docket.

By copy of this letter, including the Application, to all parties, we are notifying them by certified mail return-receipt requested, that:

(1) they have the right to appear at the hearing, to make a statement to the Division, to present evidence and cross-examine witnesses either in support of or in opposition to the Application and

(2) advising that failure to appear at the time of the hearing and become a party of record will preclude them from challenging this application at a later date. Oil Conservation Division June 20, 1995 Page 2.

In accordance with Division Memorandum 2-90, parties who may appear in this case are hereby requested to file a Pre-Hearing Statement with the Division, copy to Applicant, not later than 4:00 PM on Friday, July 7, 1995.

Very fruly your W. Thomas Kellahin

cc: Stevens & Tull, Inc. Attn: Jerry Weant

cc: <u>CERTIFIED MAIL:</u> All parties shown in application

# RECEIVED

JUN 2 0 1995

Oil Conservation Division

Proposed notification/advertisement for OCD docket

Case 1338: Application of Stevens & Tull, Inc.for a waiver of the salt protection string requirements of Order R-111-P for certain wells, Lea County New Mexico. Applicant seeks authority to delete the salt protection string requirements of Order R-111-P from oil wells to be located in Sections 9, 10, and 16, T20S, R33E, NMPM, and to be drilled to test for production in the West Teas Yates-Seven Rivers Pool. The subject wells are located north of Highway 180 some 4 miles northeast from the intersection of Highways 176 and 180 and are approximately 1 mile east from Laguna Gatuna, New Mexico.

### STATE OF NEW MEXICO ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT OIL CONSERVATION DIVISION RECEIVED

JUN 2 0 1995

### IN THE MATTER OF THE APPLICATION OF STEVENS & TULL, INC. FOR WAIVER OF SALT PROTECTION STRING REQUIREMENTS OF ORDER R-111-P FOR CERTAIN WELLS, LEA COUNTY, NEW MEXICO

## CASE: 11338

#### **APPLICATION**

Comes now STEVENS & TULL, INC., by and through its attorneys, KELLAHIN and KELLAHIN, and applies to the New Mexico Oil Conservation Division for a waiver of the salt protection string requirements of Order R-111-P for certain oil wells to be subject to the West Teas Yates-Seven Rivers Pool and to be located in portions of Sections 9, 10 and 16, T20S, R33E, NMPM, Lea County, New Mexico.

In support thereof, Applicant states:

1. Applicant, Stevens & Tull, Inc., has the right to drill and develop the oil and gas minerals underlying the following described acreage in Lea County, New Mexico:

> TOWNSHIP 20 SOUTH, RANGE 33 EAST, NMPM Section 9: E/2SE/4 Section 10: SW/4 Section 16: All

2. Applicant proposes to test for production in the West Teas Yates-Seven Rivers Pool by drilling oil wells, each to an anticipated depth of approximately 3,400 feet, and all located on individual 40-acre spacing units within the area described in paragraph (1) above.

3. The proposed wells will be located within one mile of the current boundaries of the West Teas Yates-Seven Rivers Oil Pool which was established by Division Order R-1586 effective January 27, 1960 and is subject to the Division general statewide rules including oil well spacing of 40-acres. See Plat (Exhibit "A"). Stevens & Tull, Inc. NMOCD Application Page 3

4. Sections 9, 10 and 16 were located <u>outside</u> the boundaries of the NMOCD R-111 potash area until April 21, 1998, when the Commission entered Order R-111-P and expanded the potash area to include these sections and other acreage:

Order R-111-P provides:

"Finding (22) Expansion of the R-111- area to coincide with the KPLA (known potash leasing area established by the BLM) will bring under the purview of this order areas where potash is either absent or non-commercial and such areas should be granted less stringent casing, cementing and plugging requirements, at the discretion of the OCD district supervisor."

Decretory Paragraph C.(4) provides that "the Division's District Supervisor may waive the requirements of Section D and F [dealing with drilling, casing and plugging] which are more rigorous than the general rules upon satisfactory showing that a location is outside the Life of Mine Reserves (LMR) and surrounding buffer zone as defined hereinbelow and that no commercial potash resources will be unduly diminished."

5. In Division Case No. 10858, Mitchell Energy Corporation obtained Order R-10122, issued May 31, 1994, approving its request to delete the potash protection string for nine (9) oil wells to be drilled into the West Teas Yates-Seven Rivers Pool all within adjoining Section 4.

6. Until recently, the BLM has routinely approved the deletion of the "potash protection string" for wells in this area which were drilled into this pool including six (6) wells located in Units A, B, C, F, G, and H of said Section 9.

7. Stevens & Tull, Inc. has filed with the Bureau of Land Management ("BLM") an Application for Permit to Drill ("APD") its Federal "9" Well No. 7 at a standard oil well location 2310 feet FSL and

Stevens & Tull, Inc. NMOCD Application Page 4

990 feet FEL (Unit I) of Section 9, Township 20 South, Range 33 East, NMPM, Lea County, New Mexico.

8. Stevens & Tull, Inc. has been informed by the BLM-Carlsbad, that prior to the BLM's approving this APD, the BLM desires for it to obtain the concurrence of the Director-NMOCD that it may delete the "potash protection string" for this well.

9. The Mitchell Energy Corporation wells in Section 4 and the existing Steven & Tull Inc. wells in Section 9 are located in the same large barren area and identified as "Barren" on the 1984 Secretary of Interior's Potash Resources Map.

10. The nearest potash mine (Mississippi) Potash) is approximately six (6) miles west of this area.

11. All of Section 9 and the SW/4 of Section 10 is unleased federal potash while Section 16 is State of New Mexico potash leased to Mississippi Potash, Inc.

12. Sections 9, 10 and 16 are NOT located within an "LMR" or a buffer zone as defined by Order R-111-P.

13. On May 3, 1995, and in accordance with Order R-111-P, Steven & Tull Inc. sent notice of its Intention to Drill the subject well to the following potash lessee within one mile of the subject well: Noranda Exploration, Mississippi Potash, Inc. and New Mexico Potash Corporation.

14. Of those potash companies, Mississippi Potash, Inc. responded by waiving objection to the well but stating "we feel all wells should comply with the requirement for a "salt protection string" of casing."

15. Mississippi Potash Inc. is the potash lessee of part of Section 4 in which the Division approved the deleting of the potash protection string for Mitchell Energy Corporation in Case 10858 (Order R-10122).

16. Stevens & Tull, Inc. seeks to have the Division grant an exception from "salt protection string" requirements of Order R-111-P for

Stevens & Tull, Inc. NMOCD Application Page 5

17. A substantial savings in the cost of the subject wells will be realized by deleting the salt protection string for these wells.

18. The deletion of the salt protection string for these wells will not constitute a hazard to any potash deposits in the area nor does it constitute a risk to miner's health or safety.

19. Approval of the application will afford the applicant the opportunity to produce its just and equitable share of the hydrocarbons in the West Teas Yates-Seven Rivers formation, will prevent the economic loss caused by the drilling of wells with unnecessary salt protection strings and will otherwise prevent waste and protect correlative rights.

20. The salt protection string has been deleted by the Bureau of Land Management when a shallow well is to be drilled in this area.

21. In accordance with Division Order R-111-P, Applicant has provided notification of this application, with the names and addresses of those parties set forth on Exhibit B.

22. Applicant requests that this matter be set for hearing at the next available Examiner's docket now scheduled for July 13, 1995.

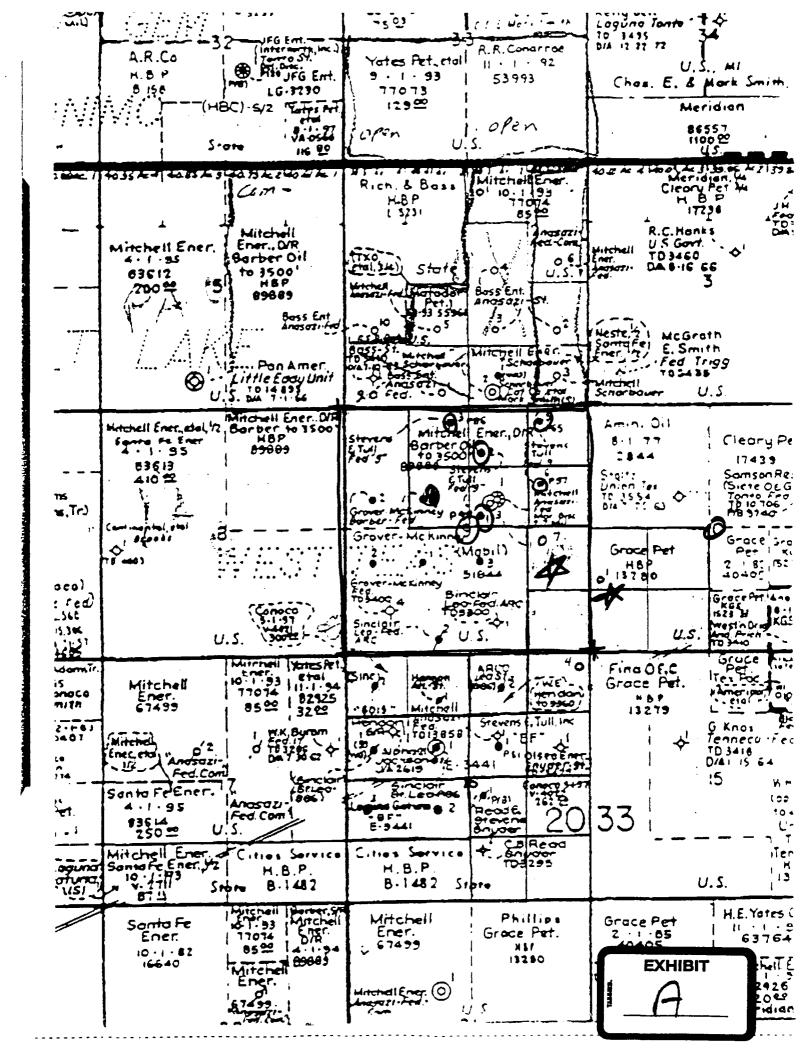
WHEREFORE, Applicant requests that, after notice and hearing, this Application be approved as requested.

KELLAHIN and KELLAHIN

BY

W. Thomas Kellahin P. O. Box 2265 Santa Fe, New Mexico 87504 (505) 982-4285

ATTORNEYS FOR APPLICANT



#### EXHIBIT "B"

Commissioner of Public Lands State of New Mexico P. O. Box 1148 Santa Fe, New Mexico 87504 Attn: Jamie Bailey

Bureau of Land Management Carlsbad Resources Area P. O. Box 1778 Carlsbad, New Mexico 88220

Bureau of Land Management Roswell District Office P. O. Box 1397 Roswell, New Mexico 88202

Oil Conservation Division P. O. Box 1980 Hobbs, New Mexico 88241 Attn: Jerry Sexton

Mississippi Potash Inc. P. O. Box 1914 Yazoo, Mississippi 29194

New Mexico Potash Corporation P. O. Box 610 Hobbs, New Mexico 88240

Noranda Exploration, Inc. P. O. Box 15638 Denver, Colorado 80215

#### STEVENS & TULL, INC

#### R-111-P HEARING

#### PROTECTION OF POTASH - USE OF DRILLING FLUIDS

The prevention of migrating H2S gas into the Salada Formation is the greatest concern of the Mining Companies and the State of New Mexico Oil Conservation Division. This migation is of concern in areas where new fields can yield suffeceint pressure to create this contamination. Below is information which is useful in determining if the Yates Production is a potential hazard in the West Teas Field.

#### WEST TEAS FIELD

	Virgin Reservoir Pressure :	1125 PSIG
*	Current Reservoir Pressure :	960 PSIG

\* based upon current static fluid levels in the field

#### **DRILLING FLUID CALCULATIONS**

<sup>•</sup> Drilling Mud :	10 ppg saturated brine water 0.519 psi/ft pressure gradient		
Yates Formation:	Average Top @ 3100'		
Mud WT while drilling in Yates:	0.519 x 3100' = 1608.9 PSI		

These calculations show that the mud system is overbalanced and no gas, oil or fluid migration is possible from the Yates Formation.

## TEAS FIELD

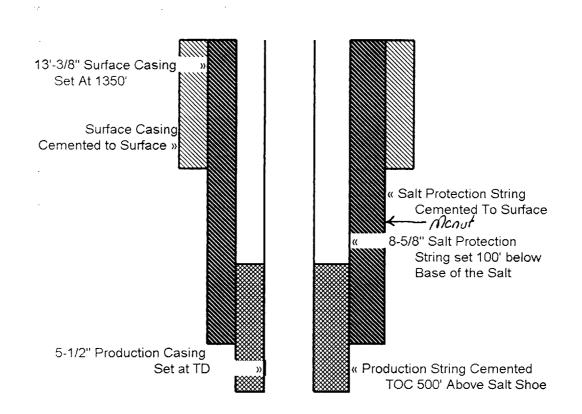
| APU  | OPER  | LEASE   
   
  | m   | u n  
   
   |   | me  | 8P  
   |   | · · · · · · · · · · · · · · · · · · ·   |   
  | r   | CASING PRO.   | -                    | ······                                 |
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---|---|----------------------|--|
| 3002528033000  |   | TEAS YATES UNIT TR 1  
   
  | 3 W   | -2 2   
   
   | 351337  | 1111  | 104 \$  
   | 660FV   | 1 1300  | 1403  
  | 7 0 3200<br>8 3/8 0 98  | 4 1/2 0 3375  |                      | +                                      |
| 3002501719000  | O ANDERSON PRICHARD OIL   | FEDERAL TI<br>TEAS YATES UN TRA   
   
  | -+-   | 312  
   
   | S 338   |   | 660FS   
   | 660FV   | 13 5/6  | 0 1Z  
  | 6 3/6 0 38<br>5 1/2 0 32  | 5 1/2 @ 3275  |                      |  |
| 3002528030000  |   | TEAS YATES UN TRA   
   
  | -   |  
   
   | 5 336   |   | -2490FN   
   | 10FW  | 110 34 6  | 1155  
  | 750 0 31  | 7   |                      |  |
| 3002501720000  |   | TEAS YATES UN TR2   
   
  |   | 1 2  
   
   | S 33E   | 13  | 1980FS  
   | 1960FW  | 11 5100   | 3207  
  |   |   | ·                    |  |
| 3002528029000  |   | TEAS YATES UN TR2<br>TEAS YATES UN TR3  
   
  |   | 412  
   
   | 25 33E<br>25 33E  | 13  | 2615FN  
   | 1980FW  | 10 34 0   | 1398'   
  | 7 5/8 @ 32  | σ   |                      |  |
| 3002501721000  | O JANADARKO   | TEAS YATES UN TRA   
   
  | -+-   |  
   
   | S 33E   |   | 1815FN<br>1980FN  
   | 194056  | 12 3/8 0  | 106   
  | 5 1/2 @ 34  | J' 8 5/8 0 990  |                      |  |
| 3002501722000  |   | TEAS YATES UN TRS   
   
  |   | 212  
   
   | S 33F   | 115   | 231075  
   | 19/01/  | 1 5 1/2 6   | 7.40 ft   
  |   |   | 5 1/2 @ 3372         |  |
| 3002501725000  | O ANADARKO  | TEAS YATES UN TRI   
   
  | -+  | 2 2  
   
   | IS 33E<br>IS 33E<br>IS 33E  | 13  | 660 FN  
   | 330FW   | 13 3/8 0  | 110   
  | 8 5/8 0 94  | 6 1/2 0 3325<br>0<br>8 5/8 0 925  |                      | ╉─────┤                                |
| 3002526026000  | O ANADARKO  | TEAS YATES UN TR2   
   
  |   | 3 8  
   
   | S 33E   | 13  | 1295FN  
   | 1980FW  | 10 3/4 0  | 1470  
  | 758032  | Ø   |                      | 1                                      |
| 3002501734000  | D UNION TEXAS PET   | TEAS YATES UN TRO   
   
  |   | 112  
   
   | S 33E   | 14  | 990FS   
   | 2310FV  | 13  | <u>Q 70</u>   
  | 10 @ 550  | 6 5/8 @ 925   | 7 @ 3297             |  |
|  | SINCLAR OLG   | TEAS YATES UN TRIS  
   
  | ~+  | 귀축   
   
   | S 33E   | 14  | 1980FS  
   | 1980FW  | 1 1 3 3 4 6 6   | 2 7/01  
  | או כט מעכ ו   | 0 0 00 3425   |                      |  |
| 3002501731000  |   | ITEAS YATES UN TRS  
   
  | -+-   | ŤŔ   
   
   | 5 336   | 114   | 2310FS  
   | 990FV   | 11.10   | 1400<br>6 68'   
  | 13 3/8 (2 3)  | 009 5/8 @ 9000<br>8' 8 5/8 @ 947  | 7 6 13813            |  |
| 3002524745000  | ANADARKO  | TEAS YATES UT TRS   
   
  |   | 5 20   
   
   | S 33E   | 111   | 990FN   
   |   | 9580  | 1420  
  | 7 0 3085  | 0 0 0 0 0 m   | 1 @ 3370             | <u>├</u> [                             |
| 3002501729000  |   | TEAS YATES UT TR5   
   
  | 1   | 3 20   
   
   | S 33F   | 114   | 1980FN  
   | 1650FW  | 70  | 3120  
  |   |   |                      | +                                      |
| 3002501728000  |   | TEAS YATES UT TR5   
   
  |   | 귀쯩   
   
   | S 33E<br>S 33E  | 14  | 2310FS  
   | 660FW   | 5 1/2 Q   | 3250  
  | ****  |   |                      |  |
| 3002501732000  |   | TEAS VATES UT TRT   
   
  |   | 귀응   
   
   | 5 335   |   | 2310FS  
   | 1940600   | 1 200   | 950   
  | 4 1/2 (2 34)  | 8'  <br>3'   6 8 8 8 8 8 1'   | 1                    |  |
| 3002501731000  | SBLACK WH   | FEDERALA  
   
  | +-  | 12   
   
   | S 33E   | tit   | -7310FR   
   | 1980FW<br>990FW   | 13 3/8  | 6 65  
  | 10 37 652   | 8<br>3' 8 5 8 0 95 1'<br>1' 8 5 8 0 94 7  | 7 0 3260<br>7 0 3370 | ·+                                     |
| 30025017370000   | ANADARKO  | TEAS YATES UT TRIO  
   
  |   | 2 20   
   
   | <u>S 33E</u><br>S 33E   | 14  | 1650FN  
   | 2310FE  | 10 3/4 0  | 530   
  | 8 5/8 0 918   | 5 1/2 (0 3218<br>5 1/2 (0 3209<br>4 1/2 (0 3209   |                      | +                                      |
| 3002501733000  |   | TEAS VATES UT TRIO  
   
  | -   | 귀쫋   
   
   | \$1338  | 14  | 1650FN  
   | <u>330FE</u>  | 10 34 0   | 666   
  | 8 5/8 @ 926   | 5 1/2 (2 3209   |                      |  |
| 3002528032000  | ANADARKO  | TEAS YATES UT TRIO  
   
  | -   | 2 20   
   
   | 5 332   | 1::   | 2265FN  
   | 1423FE  | 10 7/6 0  | 1334  
  | 1 0 3209  | 4 1/2 @ 3420  |                      |  |
| 30025017270000   | ANADARKO  | TEAS YATES UT TR 11   
   
  | +-  | 1 20   
   
   | 5 33E<br>5 33E<br>5 33E<br>5 33E  | tiit  | 990FN   
   | 2310FE  | 13 30 0   | 5 70  
  | 10 3/4 0 54   | 2<br>6 7 Q 585'   | 5 1/2 6 3215         | ·····                                  |
| 30025017360000   | SOUTHERN CALIFORNIA GA  | FEDERAL FOREST 3  
   
  |   | 1 20   
   
   | 5 33E   | 111   | 2310FS  
   |   |   |   
  |   |   |                      |  |
| 3002501736000  |   | TEAS YATES UT TR14  
   
  |   | 2   20   
   
   | S I 33E   | 1141  | 2310FS  
   | 2310FE  | 4 1/2 @   | 3455  
  |   |   |                      |  |
| 3002501759000  | GRAHAM BL   | DINNIN B-FED A  
   
  | +   | 붜畿   
   
   | 5 33E   | 13-1-   | 660FN<br>1980FS   
   | 2310FE  | 100   | 370   
  | 5 1/2 @ 329   | [   |                      |  |
| 3002501759000  | TENNECO OIL   | LOOMIS FEDERAL  
   
  | +-  | 1120   
   
   | S 33E<br>S 33E  | 1231  | 1980FN  
   | 1980FW  | 7580  | 1118  
  | 5 1/2 @ 339   | ğ   | +                    | ĮĮ                                     |
| 30025017610000   | TENNECO OIL   | LOOMIS FEDERAL  
   
  |   | 2120   
   
   | SIJJE   | 123 🗌   | 1980FS  
   | 1980FW  | 7 5/8 1   | 1551  
  | 1/2 @ 337   | 1'  | 1                    | <u>├</u> {                             |
| 3002501763000  | TALMADGE-COWELL   | BERNISE DINNIN  
   
  | T   | 120  
   
   | 5 33E<br>5 33E  | 21  | 1650EST   
   | 330FE   | 85601   | 621   
  | 5 1/2 @ 327<br>5 1/2 @ 357  | 5   |                      |  |
|  | WALLEN PRODUCTION   | FEDERAL 24"   
   
  | +   | 귀쯩   
   
   | <u> 5133</u> È  | 124   | 2270FN<br>330FS   
   | 1850FE  | 0 5/0 0   | 1039  
  | 5 1/2 Q 357   |   |                      |  |
|  | WALLEN PRODUCTION   | WALLEN-FEDERAL  
   
  | +   | 삶  
   
   | S 34E<br>S 34E  | H <del>ill</del>  | 2310FN  
   | 330FW   | 13 3/8 Q  | 22  
  | 10 34 @ 57<br>7 <b>A</b> 11 1   | 7 7 0 3315  | 4 1/2 3250-3565      | ]                                      |
|  | WALLEN PRODUCTION   | WALLEN-FEDERAL  
   
  | +   | 7 20   
   
   | 5 34F   | ti8 -   | 2310FN  
   | 2310FF  | 13 3/8 0  | 190 I   
  | 10 3/4 0 60   | 7 8 5/8 @ 1000  | 7 20 3300            | 4 1/2 3021-3561                        |
| 30025245260000   | WALLEN PRODUCTION   | WALLEN-FEDERAL  
   
  | 1   | 5 20   
   
   | 5 34E<br>5 34E  | 18  | 330F 5  
   | 330FE   | 16 0  | 98  
  | 13 3/8 00 27  | 7 0 3297  | 4 1/2 3084-3593      | - "2 3021-3301                         |
| 30025084630000   | WALLEN PRODUCTION   | FEDERAL   
   
  |   | 1 20   
   
   | S   33E   | 18  | 1980FS  
   | 1980FE  | 703   | 492   
  |   |   |                      |  |
|  | WALLEN PRODUCTION   | MCDONALD J FEDERAL  
   
  | 1   | 1 20   
   
   | 5 34E   | 18  | 330FS   
   | 330FE   | 20 @  | 205   
  | 2 1/2 0 60  | 5' 10 @ 940   | 8 1/4 Q 3166         |  |
| 30025024430000   |   | TEAS VATES UT TRI   
   
  | 1.4   | 뉘운   
   
   | 5 34E   |   | 1980FN  
   | 650FW   | 5/8 Q 1   | 314   
  | 1/2 @ 326   | 2   | +                    |  |
|  | WALLEN PRODUCTION   | TEAS YATES UT TRI   
   
  | 141   | il So  
   
   | 5 34E<br>5 34E<br>5 34E   | 1in-  | 2310F5  
   | 2310FW  | 1 2 3 1 C 4   | 105   
  | 3 3/1 (0 373  | 7 @ 3300  | -f                   | l                                      |
| 30025231220000   | GETTY OIL   | GOVERMENT N   
   
  | +   | 2 20   
   
   | 5 34E   | 19  | 590F5   
   | 10175W  | 1 1 1 1 1 1 1   | SAN   
  | 5 577 AN 124  |   |                      |  |
| 30025241290000   | GETTY OIL<br>WALLEN PRODUCTION  | WALLEN-FEDERAL  
   
  |   | 3 20:  
   
   | 5 I 34E   | 19  | 330FN   
   | _ 330FE   | 13 3/8 @  | 212 17  
  | 03136   |   | 1                    |  |
| 30025238610000   | WALLEN PRODUCTION   | WALLEN-FEDERAL  
   
  | 1   | 120  
   
   | 5 33E   | 20  | 330FN   
   | 330FW   | 13 3/8 0  | 0 85' 1   
  | 0 3/4 @ 66  | 8 5/8 @ 1483  | 7 @ 3159             | 4 1/2 2981-3606                        |
|  | YATES HARVEY E  | WEST LYNCH FED  
   
  | +   | 120  
   
   | 34E   | 19  | 330F5<br>330FN  
   | 1650FE  | 95/8 @ 1  | 496 7   
  | 0 3192  | 4 1/2 @ 3528  | +                    |  |
|  | CITIES SERVICES OIL   | WILLIS-FEDERAL A  
   
  | +   | 120  
   
   | 5 34E   | 쇖   | 330FN   
   | 1650FW  | 95/8 @ 1  | 320 17  
  | Q 3229  | 4 1/2 @ 3543  | +                    |  |
| 30025024820000   | GACKLE ORLG CO INC  | TEXACO-FEDERAL  
   
  |   |  
   
   | 34E   |   | 760FN   
   | 660FF   | 95/8 @ 1  | 5171  
  | 0 3138  | 4 1/2" 3073-352   | +                    | ······································ |
| TEAS WEST  |   | •   
   
  |   |  
   
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| APIN   | OPER  | LEASE   
   
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  |   | CASING PROG   | RAM                  | r1                                     |
| 30025301180000   |   |   
   
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  |   |   |                      |  |
|  |   | IFEU +LEA DUID ARG  
   
  | 1 3   | 20   
   
   | 33E   | 9   | 330FS   
   | 1980FW  | 95/8 (21  | 285 7   
  | Q 2950  | 5 2875-3350   | 1 1                  |  |
| 30025318960000   | ISTEVENS & TULL   | FED-LEA 6015 ARC  
   
  |   | 20   
   
   | 5 33E<br>5 33E  | 9   | 330FN   
   | 2310FW  | 95/8 Q 1<br>85/8 Q 1  | 300 5   
  | 1/2 @ 332   | 5° 2875-3350<br>r   |                      |  |
| 30025318960000<br>30025298610000   | GROVER OIL  | FEDERAL S   
   
  | 1   | 20   
   
   | 33E<br>33E<br>33E   | 9   | 330FN<br>1980FS   
   | 2310FW<br>1650FW  | 85/8 (21)   | 265' 4  
  | 1/2 @ 332   | r   |                      |  |
| 30025318960000<br>30025298610000<br>30025317180000   | STEVENS I TULL<br>GROVER OIL<br>STEVENS I TULL  | FEDERAL S   
   
  | 1   | 20   
   
   | 33E<br>33E<br>33E   | 9   | 330FN<br>1980FS<br>990FN  
   | 2310FW<br>1650FW  | 85/8 (21)   | 265' 4  
  | 1/2 @ 332   | r   |                      |  |
| 30025318960000<br>30025298610000<br>30025317180000<br>30025302390000   | STEVENS I TULL<br>GROVER OIL<br>STEVENS I TULL<br>GROVER MCKINNEY OIL   | FEDERAL Y<br>FEDERAL<br>FEDERAL<br>FEDERAL  
   
  |   | 20<br>20<br>20<br>20   
   
   | 33E<br>33E<br>33E<br>33E<br>33E<br>33E  | 999   | 330FN<br>1980FS<br>990FN<br>1980FS  
   | 2310FW<br>1650FW<br>2110FE<br>2310FE  | 8 5/8 Q 1<br>8 5/8 Q 1<br>8 5/8 Q 1<br>8 5/8 Q 1  | 300 5<br>265' 4<br>300' 5<br>218' 4   
  | 1/2 @ 332<br>1/2 @ 3390<br>1/2 @ 3390<br>1/2 @ 3390<br>1/2 @ 3420   | /<br> <br> <br>   |                      |  |
| 30025318960000<br>30025298610000<br>30025317180000   | ISTEVENS & TULL<br>GROVER OIL<br>STEVENS & TULL<br>GROVER MCKINNEY OIL<br>GROVER OIL  | FEDERAL S   
   
  |   | 20<br>20<br>20<br>20<br>20<br>20<br>20<br>20   
   
   | 33E<br>33E<br>33E   | 9999  | 330FN<br>1980FS<br>- 990FN<br>1980FS<br>1980FE<br>1980FE  
   | 2310FW<br>1650FW<br>2110FE<br>2310FE<br>660FW<br>1650FW   | 8 5/8 Q 1<br>8 5/8 Q 1  | 300 5<br>265' 4<br>300 5<br>218' 4<br>256' 4<br>256' 4  
  | 1/2 @ 332<br>1/2 @ 3390<br>1/2 @ 3390<br>1/2 @ 342<br>1/2 @ 3400<br>1/2 @ 3400  |   |                      |  |
| 30025318960000<br>300253298610000<br>30025317180000<br>300255299720000<br>30025299720000<br>30025299720000<br>30025299000000<br>30025210350000   | ISTEVENS & TULL<br>GROVER OIL<br>STEVENS I TULL<br>GROVER OIL<br>GROVER OIL<br>GROVER OIL<br>STEVENS & TULL   | FEDERAL SY<br>FEDERAL SY<br>FEDERAL SY<br>FEDERAL<br>FEDERAL<br>BARBER<br>FEDERAL SY  
   
  |   | 203<br>203<br>203<br>203<br>203<br>203<br>203<br>203<br>203<br>203   
   
   | 33E<br>33E<br>33E<br>33E<br>33E<br>33E<br>33E<br>33E<br>33E<br>33E  | 9   | 330FN<br>1980FS<br>990FN<br>1980FS<br>1980FE<br>1980FE<br>1980FN<br>2310FN  
   | 2310FW<br>1650FW<br>2110FE<br>2310FE<br>660FW<br>1650FW<br>2310FE   | 85/8 Q 1<br>85/8 Q 1<br>85/8 Q 1<br>85/8 Q 1<br>85/8 Q 1<br>85/8 Q 1<br>85/8 Q 1  | 300 5<br>265' 4<br>300 5<br>218' 4<br>256 4<br>261' 4<br>261' 4   
  | 1/2 @ 3329<br>1/2 @ 3399<br>1/2 @ 3351<br>1/2 @ 3420<br>1/2 @ 3400<br>1/2 @ 3440  | r<br>   |                      |  |
| 30025318360000<br>30025298610000<br>30025302180000<br>30025302390000<br>30025299720000<br>30025299720000<br>30025299710000   | ISTEVENS I TULL<br>GROVER OIL<br>STEVENS I TULL<br>GROVER MCKINNEY OIL<br>GROVER OIL<br>GROVER OIL<br>STEVENS I TULL<br>GROVER OIL  | FEDERAL Y<br>FEDERAL<br>FEDERAL<br>FEDERAL<br>GARBER<br>FEDERAL<br>GARBER<br>GARBER   
   
  |   | 200<br>200<br>200<br>200<br>200<br>200<br>200<br>200<br>200  
   
   | 33E<br>33E<br>33E<br>33E<br>33E<br>33E<br>33E<br>33E<br>33E<br>33E  | 9   | 330FN<br>1980FS<br>990FN<br>1980FS<br>1980FE<br>1980FN<br>2310FN<br>1980FN  
   | 2310FW<br>1650FW<br>2110FE<br>2310FE<br>660FW<br>1650FW<br>2310FE<br>660FW  | 85/8 Q 1<br>85/8 Q 1  | 300 5<br>265' 4<br>300 5<br>218' 4<br>256 4<br>261' 4<br>243' 5<br>290' 4   
  | 1/2 @ 332<br>1/2 @ 339<br>1/2 @ 339<br>1/2 @ 342<br>1/2 @ 340<br>1/2 @ 340<br>1/2 @ 340<br>1/2 @ 340  |   |                      |  |
| 30025318560000<br>30025298610000<br>300255302398610000<br>30025530239900000<br>300255399720000<br>300255310350000<br>300255310350000<br>30025539710000   | ISTEVENS I TULL<br>GROVER OIL<br>STEVENS I TULL<br>GROVER MICKINNEY OIL<br>GROVER OIL<br>GROVER OIL<br>STEVENS I TULL<br>GROVER OIL<br>GROVER OIL<br>CITIES SERVICES OIL  | FEDERAL Y<br>FEDERAL<br>FEDERAL<br>FEDERAL<br>GARBER<br>FEDERAL<br>GARBER<br>FEDERAL<br>SARBER<br>STATE BF  
   
  |   | 200<br>200<br>200<br>200<br>200<br>200<br>200<br>200<br>200  
   
   | 33E<br>33E<br>33E<br>33E<br>33E<br>33E<br>33E<br>33E<br>33E<br>33E  | 9   | 330FN<br>1980FS<br>990FN<br>1980FS<br>1980FE<br>1980FN<br>2310FN<br>1980FN<br>1980FN  
   | 2310FW<br>1650FW<br>2110FE<br>2310FE<br>660FW<br>1650FW<br>2310FE<br>660FW<br>1980FE  | 85/8 Q 1<br>85/8 Q 1<br>85/8 Q 1<br>85/8 Q 1<br>85/8 Q 1<br>85/8 Q 1<br>85/8 Q 1  | 300 5<br>265' 4<br>300' 5<br>218' 4<br>256' 4<br>261' 4<br>243' 5<br>290' 4<br>245' 7   
  | 1/2 Q 3322<br>1/2 Q 3399<br>1/2 Q 331<br>1/2 Q 342<br>1/2 Q 340<br>1/2 Q 340<br>1/2 Q 340<br>1/2 Q 340<br>1/2 Q 340<br>1/2 Q 340<br>1/2 Q 339<br>1/2 Q 339  | 5° 2925-3275  |                      |  |
| 30025318560000<br>300255786610000<br>3002553171800000<br>3002553102390000<br>300255310350000<br>300255310350000<br>3002553110000<br>30025511400000<br>300250174500001  | ISTEVENS I TULL<br>GROVER OIL<br>ISTEVENS I TULL<br>GROVER OIL<br>GROVER OIL<br>GROVER OIL<br>STEVENS I TULL<br>GROVER OIL<br>GROVER OIL<br>CITIES SERVICES OIL<br>HENDON WOLLIAM É JR  | FEDERAL Y<br>FEDERAL<br>FEDERAL<br>FEDERAL<br>SARBER<br>FEDERAL<br>SARBER<br>STATE BF<br>AARCO STATE  
   
  |   | 200<br>200<br>200<br>200<br>200<br>200<br>200<br>200<br>200  
   
   | 33E<br>33E<br>33E<br>33E<br>33E<br>33E<br>33E<br>33E<br>33E<br>33E  | 9   | 330FN<br>1980FS<br>990FN<br>1980FS<br>1980FE<br>1980FN<br>2310FN<br>1980FN  
   | 2310FW<br>1650FW<br>2110FE<br>2310FE<br>660FW<br>1650FW<br>2310FE<br>660FW<br>1960FE<br>660FW<br>1960FE   | 8 5/8 Q 1<br>8 5/8 Q 1<br>9 5/8 Q 1  | 300 5<br>265 4<br>300 5<br>218 4<br>256 4<br>261 4<br>261 4<br>243 5<br>290 4<br>245 7<br>NR N<br>245 7  
   | 1/2 @ 332<br>1/2 @ 339<br>1/2 @ 331<br>1/2 @ 342<br>1/2 @ 342<br>1/2 @ 340<br>1/2 @ 340<br>1/2 @ 340<br>1/2 @ 339<br>1/2 @ 340<br>1/2 @ 339<br>1/2 @ 340<br>1/2 @ 339<br>1/2 @ 340<br>1/2 @ 339<br>1/2 @ 340<br>1/2 @ 340<br>1/2 @ 340<br>1/2 @ 340<br>1/2 @ 339<br>1/2 @ 340<br>1/2 @ 100<br>1/2 @   | 7<br>7<br>7<br>7<br>5* 2925-3275'<br>NR   |                      |  |
| 30025318560000<br>30025795610000<br>300253117180000<br>300253117180000<br>3002539720000<br>3002539720000<br>30025310330000<br>30025310330000<br>30025317450000<br>30025017420000   | ISTEVENS I TULL<br>GROVER OIL<br>STEVENS I TULL<br>GROVER AUC<br>GROVER OIL<br>CROVER OIL<br>STEVENS I TULL<br>GROVER OIL<br>CROVER OIL<br>CITIES SERVICES OIL<br>HENDON WOLLIAM E JR<br>CITIES SERVICES OIL<br>HANSON OIL  | FEDERAL 'Y'<br>FEDERAL<br>FEDERAL<br>FEDERAL<br>GARBER<br>FEDERAL<br>STATE BF<br>ARBER<br>STATE BF<br>ARCO STATE<br>STATE BF<br>ATCANTC-STATE   
   
  |   | 2005<br>2005<br>2005<br>2005<br>2005<br>2005<br>2005<br>2005   
   
   | 33E<br>33E<br>33E<br>33E<br>33E<br>33E<br>33E<br>33E<br>33E<br>33E  | 9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>16<br>16<br>16   | 330FH<br>1980FS<br>990FN<br>1980FS<br>1980FS<br>1980FN<br>2310FN<br>1980FN<br>1980FN<br>1980FN<br>1980FN<br>1980FS<br>990FN   
   | 2310FW<br>1650FW<br>2110FE<br>2310FE<br>660FW<br>1650FW<br>2310FE<br>660FW<br>1980FE<br>660FW<br>1980FW<br>1980FW   | 8 5/8 (C)<br>8 5/8 (C)<br>9 5/8 (C)<br>9 5/8 (C)<br>9 5/8 (C)<br>8 5/8 (C)<br>9 5/8 (C)<br>8 5/8 (C)<br>8 5/8 (C)<br>9 5/8 (C)<br>8 5/8 (C)<br>8 5/8 (C)<br>9 5/8 (C)<br>8 5/8 (C)  | 300 5<br>265 4<br>300 5<br>218 4<br>256 4<br>261 4<br>243 5<br>290 4<br>245 7<br>NR K<br>245 7<br>200 7   
  | 1/2 @ 3322<br>1/2 @ 3391<br>1/2 @ 3391<br>1/2 @ 342<br>1/2 @ 345<br>1/2  | 5° 2925-3275  |                      |  |
| 30025318560000<br>30025795610000<br>300253117180000<br>300253117180000<br>30025299720000<br>30025599720000<br>30025299710000<br>30025291710000<br>3002501740000<br>3002501740000<br>3002501740000  | ISTEVENS I TUUL<br>GROVER OIL<br>STEVENS I TUUL<br>GROVER OIL<br>GROVER OIL<br>GROVER OIL<br>STEVENS I TUUL<br>GROVER OIL<br>STEVENS I TUUL<br>GROVER OIL<br>GROVER OIL<br>GROVER OIL<br>GROVER OIL<br>GROVER OIL<br>HENDON WOLLIAM E JR<br>CITIES SERVICES OIL<br>HANSON OIL<br>SINCLAIR OIL   | FEDERAL '9'<br>FEDERAL '9'<br>FEDERAL<br>FEDERAL<br>FEDERAL<br>BARBER<br>FEDERAL '9'<br>BARBER<br>STATE BF<br>ARCO STATE<br>STATE BF<br>ARCO STATE<br>STATE BF<br>ATUANTC-STATE<br>STATE JEA' 886'  
   
  |   | 200<br>200<br>200<br>200<br>200<br>200<br>200<br>200<br>200<br>200   
   
   | 33E<br>33E<br>33E<br>33E<br>33E<br>33E<br>33E<br>33E<br>33E<br>33E  | 9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9   | 330FN<br>1980FS<br>990FN<br>1980FS<br>1980FS<br>1980FN<br>2310FN<br>1980FN<br>1980FN<br>1980FN<br>1980FN<br>1980FS<br>990FN<br>660FN  
   | 2310FW<br>1650FW<br>2110FE<br>2310FE<br>660FW<br>1650FW<br>2310FE<br>660FW<br>1980FE<br>660FW<br>1980FW<br>1980FW<br>1980FW   | 8 5/8 (C)<br>8 5/8 (C)<br>9 5/8 (C)  | 300 5<br>265 4<br>300 5<br>218 4<br>256 4<br>261 4<br>243 5<br>290 4<br>245 7<br>NR K<br>245 7<br>200 7<br>308 7   
   | 1/2 @ 3322<br>1/2 @ 3391<br>1/2 @ 3432<br>1/2 @ 3422<br>1/2 @ 3422  | r<br>r<br>r<br>r<br>r<br>r<br>r<br>r<br>r<br>r<br>r<br>r<br>r<br>r  |                      |  |
| 30025318560000<br>300253786610000<br>3002537976000<br>30025317180000<br>300255799720000<br>300255799720000<br>300255799720000<br>30025517450000<br>30025017450000<br>30025017450000<br>30025017460000<br>30025017460000  | ISTEVENS I TULL<br>GROVER OIL<br>STEVENS I TULL<br>GROVER MCKINNEY OIL<br>GROVER OIL<br>GROVER OIL<br>GROVER OIL<br>CAROVER OIL<br>CITIES SERVICES OIL<br>HENDON WOLLIAM E JR<br>CITIES SERVICES OIL<br>HANSON OIL<br>SINICLAIR OLG<br>SINICLAIR OLG  | FEDERAL Y<br>FEDERAL<br>FEDERAL<br>FEDERAL<br>BARBER<br>STATE BF<br>ARCO STATE<br>STATE BF<br>ATCANTIC STATE<br>STATE LEA<br>STATE LEA  
   
  |   | 200<br>200<br>200<br>200<br>200<br>200<br>200<br>200<br>200<br>200   
   
   | 33E<br>33E<br>33E<br>33E<br>33E<br>33E<br>33E<br>33E<br>33E<br>33E  | 9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9   | 330FN<br>1980FS<br>990FN<br>1980FS<br>1980FS<br>1980FN<br>1980FN<br>1980FN<br>1980FN<br>1980FN<br>1980FN<br>1980FN<br>1980FN<br>1980FN<br>1980FN<br>1980FN<br>1980FN  
   | 2310FW<br>1650FW<br>2110FE<br>2310FE<br>660FW<br>1350FW<br>2310FE<br>660FW<br>1980FE<br>660FW<br>1980FW<br>1980FW<br>1980FW<br>1980FW   | 8 5/8 (C)<br>8 5/8 (C)<br>9 5/8 (C)<br>9 5/8 (C)<br>9 5/8 (C)<br>8 5/8 (C)<br>9 5/8 (C)<br>8 5/8 (C)<br>8 5/8 (C)<br>9 5/8 (C)<br>8 5/8 (C)<br>8 5/8 (C)<br>9 5/8 (C)<br>8 5/8 (C)  | 300 5<br>265 4<br>300 5<br>218 4<br>256 4<br>261 4<br>261 4<br>243 5<br>290 4<br>243 7<br>NR K<br>245 7<br>NR K<br>245 7<br>200 7<br>308 7<br>350 7<br>350 7  
  | 1/2 @ 3322<br>1/2 @ 3392<br>1/2 @ 3392<br>1/2 @ 3452<br>1/2 @ 3452<br>1/2 @ 3452<br>1/2 @ 3452<br>1/2 @ 3452<br>1/2 @ 3452<br>1/2 @ 3392<br>0 2935<br>0 2935<br>0 2935<br>0 2935<br>0 2935<br>0 2935<br>0 2935<br>0 2935<br>0 2935  | 7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7   |                      |  |
| 30025316560000<br>300255766610000<br>300255317180000<br>300255317180000<br>30025539720000<br>300255310330000<br>300255310330000<br>30025517430001<br>30025017420000<br>30025017420000<br>30025017420000<br>30025017460000<br>30025017460000  | ISTEVENS I TULL<br>GROVER OIL<br>STEVENS I TULL<br>GROVER AUC<br>GROVER OIL<br>GROVER OIL<br>CROVER OIL<br>CROVER OIL<br>CROVER OIL<br>CITIES SERVICES OIL<br>HENDON WOLLIAM È JR<br>CITIES SERVICES OIL<br>HANSON OIL<br>STRICLAIR OSO<br>SINCLAIR OSO<br>SINCLAIR OSO<br>SINCLAIR OSO<br>SINCLAIR OSO   | FEDERAL 'Y'<br>FEDERAL<br>FEDERAL<br>FEDERAL<br>GARBER<br>FEDERAL<br>STATE BF<br>ARCO STATE<br>STATE BF<br>ATCANTC-STATE<br>STATE IEA<br>'ATCANTC-STATE<br>STATE-LEA<br>STATE-LEA<br>SNYDER   
   
  |   | 200<br>200<br>200<br>200<br>200<br>200<br>200<br>200<br>200<br>200   
   
   | 33E<br>33E<br>33E<br>33E<br>33E<br>33E<br>33E<br>33E<br>33E<br>33E  | 9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9   | 330FN<br>1980FS<br>950FN<br>1980FS<br>1980FS<br>1980FN<br>2310FN<br>1980FN<br>1980FN<br>1980FN<br>1980FN<br>1980FN<br>1980FN<br>1980FN<br>1980FN<br>1980FN<br>2310FS  
   | 2310FW<br>1650FW<br>2110FE<br>2310FE<br>660FW<br>1650FW<br>2310FE<br>660FW<br>1980FE<br>660FW<br>1980FW<br>1980FW<br>1980FW<br>1980FW<br>2310FE   | 8 5/8 Q 1<br>8 5/8 Q 1<br>9 5/8 0<br>1<br>9 5/8 0<br>1<br>9 5/8 0<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1  | 300 5<br>265 4<br>300 5<br>265 4<br>200 5<br>265 4<br>256 4<br>265 7<br>265 4<br>265 7<br>265 7<br>200 7<br>7<br>200 7<br>7   | 1/2 Q 3322<br>1/2 Q 3391<br>1/2 Q 342<br>1/2 Q 342<br>1/2 Q 342<br>1/2 Q 340<br>1/2 Q 340<br>1/2 Q 340<br>1/2 Q 340<br>1/2 Q 344<br>1/2 Q 345<br>Q 2955<br>Q 2955<br>Q 2955<br>Q 2955<br>7/8 Q 2955  
  | 7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7   |                      |  |
| 30025316560000<br>300255766610000<br>300255317180000<br>300255317180000<br>30025539720000<br>300255310330000<br>300255310330000<br>30025517430001<br>30025017420000<br>30025017420000<br>30025017420000<br>30025017460000<br>30025017460000  | ISTEVENS I TULL<br>GROVER OIL<br>STEVENS I TULL<br>GROVER MCKINNEY OIL<br>GROVER OIL<br>GROVER OIL<br>GROVER OIL<br>GROVER OIL<br>GROVER OIL<br>GITIES SERVICES OIL<br>HENDON WOLLIAM E JR<br>CITIES SERVICES OIL<br>HANSON OIL<br>SINCLAIR OLG<br>SINCLAIR OLG<br>SINCLAIR OLG<br>SINCLAIR OLG<br>SINCLAIR OLG<br>SINCLAIR EXPL  | FEDERAL Y<br>FEDERAL<br>FEDERAL<br>FEDERAL<br>BARBER<br>STATE BF<br>ARCO STATE<br>STATE BF<br>ATCANTIC STATE<br>STATE LEA<br>STATE LEA  
   
  |   | 200<br>200<br>200<br>200<br>200<br>200<br>200<br>200<br>200<br>200   
   
   | 33E<br>33E<br>33E<br>33E<br>33E<br>33E<br>33E<br>33E<br>33E<br>33E  | 9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9   | 330FN<br>1980FS<br>990FN<br>1980FS<br>1980FS<br>1980FN<br>1980FN<br>1980FN<br>1980FN<br>1980FN<br>1980FN<br>1980FN<br>1980FN<br>1980FN<br>1980FN<br>1980FN<br>1980FN  
   | 2310FW<br>1650FW<br>2110FE<br>2310FE<br>660FW<br>1650FW<br>2310FE<br>660FW<br>1960FE<br>660FW<br>1980FE<br>1980FW<br>1980FW<br>1980FW<br>1980FW<br>2310FE<br>2310FE   | 8 5/8 Q 1<br>8 5/8 Q 1<br>9 5/8 0 0 0 0 0 0 0 0   | 300 5<br>265 4<br>300 5<br>218 4<br>256 4<br>256 4<br>261 4<br>243 5<br>261 4<br>243 5<br>260 4<br>243 5<br>200 7<br>245 7<br>200 7<br>20   | 1/2 Q 3322<br>1/2 Q 3391<br>1/2 Q 342<br>1/2 Q 342<br>1/2 Q 342<br>1/2 Q 340<br>1/2 Q 340<br>1/2 Q 340<br>1/2 Q 340<br>1/2 Q 344<br>1/2 Q 345<br>Q 2955<br>Q 2955<br>Q 2955<br>Q 2955<br>7/8 Q 2955   
   | 7<br>5' 2925-3275'<br>NR<br>5' 2940-3225'<br>4 1/2 Q 3260'<br>2 7/6 Q 3297  |                      |  |
| 30025318560000<br>300253786610000<br>30025317180000<br>30025379500000<br>300255795000000<br>300255795000000<br>30025579500000<br>30025579500000<br>30025577410000<br>30025017410000<br>30025017410000<br>30025017410000<br>30025017410000<br>30025017410000<br>30025017410000<br>30025017410000  | ISTEVENS I TULL<br>GROVER OIL<br>STEVENS I TULL<br>GROVER MCKINNEY OIL<br>GROVER OIL<br>CROVER OIL<br>CROVER OIL<br>CITIES SERVICES OIL<br>HENDON WOLLIAM É JR<br>CITIES SERVICES OIL<br>HANSON OIL<br>SINICLAIR OLG<br>READ I STEVENS. INC.<br>SHORELINE EXPL<br>SINICLAIR OLG   | FEDERAL 'Y'<br>FEDERAL<br>FEDERAL<br>SARBER<br>FEDERAL<br>BARBER<br>STATE BF<br>ARCO STATE<br>STATE BF<br>ATCANTIC-STATE<br>STATE LEA<br>STATE-LEA<br>SNYDER<br>SNYDER  
   
  |   | 200<br>200<br>200<br>200<br>200<br>200<br>200<br>200<br>200<br>200   
   
   | 33E<br>33E<br>33E<br>33E<br>33E<br>33E<br>33E<br>33E<br>33E<br>33E  | 9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9   | 330FN<br>1980FS<br>950FN<br>1980FE<br>1980FE<br>1980FN<br>2310FN<br>1980FN<br>1980FN<br>1980FN<br>1980FN<br>1980FN<br>1980FN<br>1980FN<br>1980FN<br>2310FS<br>2310FS  
   | 2310FW<br>1650FW<br>2110FE<br>2310FE<br>660FW<br>1650FW<br>2310FE<br>660FW<br>1960FE<br>660FW<br>1980FE<br>1980FW<br>1980FW<br>1980FW<br>1980FW<br>2310FE<br>2310FE   | 8 5/8 Q 1<br>8 5/8 Q 1<br>9 5/8 0 0 0 0 0 0 0 0   | 300 5<br>265 4<br>300 5<br>218 4<br>256 4<br>256 4<br>261 4<br>243 5<br>261 4<br>243 5<br>260 4<br>243 5<br>200 7<br>245 7<br>200 7<br>20   | 1/2 @ 3322<br>1/2 @ 3392<br>1/2 @ 3422<br>1/2 @ 3422<br>1/2 @ 3402<br>1/2 @ 3402<br>1/2 @ 3402<br>1/2 @ 3402<br>1/2 @ 3442<br>1/2 @ 3444<br>1/2 @ 3444<br>1/2 @ 3444<br>1/2 @ 3444<br>1/2 @ 3444<br>1/2 @ 3444<br>1/2 @ 3492<br>0 2975<br>0 2955<br>0 2955<br>0<br>0 2955<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | 7<br>5' 2925-3275'<br>NR<br>5' 2940-3225'<br>4 1/2 Q 3260'<br>2 7/6 Q 3297  
   |                      |  |
| 30025318560000<br>300253786610000<br>300255317180000<br>30025539720000<br>30025579500000<br>30025579500000<br>30025579500000<br>30025017410000<br>30025017410000<br>30025017410000<br>30025017410000<br>30025017410000<br>30025017410000<br>30025017410000   | ISTEVENS I TULL<br>GROVER OIL<br>STEVENS I TULL<br>GROVER MCKINNEY OIL<br>GROVER OIL<br>CROVER OIL<br>CROVER OIL<br>CITIES SERVICES OIL<br>HENDON WOLLIAM É JR<br>CITIES SERVICES OIL<br>HANSON OIL<br>SINICLAIR OLG<br>READ I STEVENS. INC.<br>SHORELINE EXPL<br>SINICLAIR OLG   | FEDERAL 'Y<br>FEDERAL<br>FEDERAL<br>SARBER<br>SARBER<br>STATE BF<br>ARCO STATE<br>STATE BF<br>ARCO STATE<br>STATE LEA<br>STATE LEA<br>STATE LEA<br>SNYDER<br>LEA STATE  
   
  |   | 2015<br>2015<br>2015<br>2015<br>2015<br>2015<br>2015<br>2015   
   
   | 33E<br>33E<br>33E<br>33E<br>33E<br>33E<br>33E<br>33E<br>33E<br>33E  | 9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9   | 330FN<br>1980FS<br>950FN<br>1980FE<br>1980FE<br>1980FN<br>2310FN<br>1980FN<br>1980FN<br>1980FN<br>1980FN<br>1980FN<br>1980FN<br>1980FN<br>1980FN<br>2310FS<br>2310FS  
   | 2310FW<br>1650FW<br>2110FE<br>2310FE<br>2310FE<br>660FW<br>1650FW<br>1650FW<br>1980FE<br>660FW<br>1980FE<br>660FW<br>1980FE<br>1980FE<br>1980FW   | 8 5/8 Q 1<br>8 5/8 Q 1<br>9 5/8 0 0 0 0 0 0 0 0   | 300 5<br>265 4<br>300 5<br>218 4<br>256 4<br>256 4<br>261 4<br>243 5<br>261 4<br>243 5<br>260 4<br>243 5<br>200 7<br>245 7<br>200 7<br>20   | 1/2 @ 3322<br>1/2 @ 3392<br>1/2 @ 3422<br>1/2 @ 3422<br>1/2 @ 3402<br>1/2 @ 3402<br>1/2 @ 3402<br>1/2 @ 3402<br>1/2 @ 3442<br>1/2 @ 3444<br>1/2 @ 3444<br>1/2 @ 3444<br>1/2 @ 3444<br>1/2 @ 3444<br>1/2 @ 3444<br>1/2 @ 3492<br>0 2975<br>0 2955<br>0 2955<br>0<br>0 2955<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | 7<br>5' 2925-3275'<br>NR<br>5' 2940-3225'<br>4 1/2 Q 3260'<br>2 7/6 Q 3297  
   |                      |  |
| 30025318560000<br>300253756610000<br>30025317180000<br>30025317180000<br>300255795000000<br>300255795000000<br>30025579500000<br>30025579500000<br>3002501740000<br>30025017410000<br>30025017410000<br>30025017410000<br>30025017410000<br>3002501740000<br>3002501740000<br>3002501740000<br>3002501740000<br>3002501740000<br>3002501740000<br>3002501740000<br>3002501740000<br>3002501740000<br>3002501740000<br>3002501740000<br>3002500420001<br>3002500420000  | ISTEVENS I TULL<br>GROVER OIL<br>STEVENS I TULL<br>GROVER MCKINNEY OIL<br>GROVER OIL<br>GROVER OIL<br>CROVER OIL<br>CITIES SERVICES OIL<br>HENDON WOLLIAM É JR<br>CITIES SERVICES OIL<br>HANSON OIL<br>SINICLAIR OLG<br>SINICLAIR OLG<br>SINICLAIR OLG<br>SINICLAIR OLG<br>SINICLAIR OLG<br>PRICE MRS BERTIE NOLAND   | FEDERAL 'Y<br>FEDERAL<br>FEDERAL<br>SARBER<br>SARBER<br>STATE BF<br>ARCO STATE<br>STATE BF<br>ARCO STATE<br>STATE BF<br>ATUANTIC STATE<br>STATE LEA<br>STATE LEA<br>SINTOER<br>LEASTATE<br>LEASTATE<br>BURNER.FEDERAL   
   
  | A CEL   | 2 200<br>2 200<br>2<br>200<br>200  
   
  | 33E<br>33E<br>33E<br>33E<br>33E<br>33E<br>33E<br>33E<br>33E<br>33E  | 9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9   | 300FN<br>1980FS<br>950FN<br>1980FS<br>1980FS<br>1980FS<br>1980FN<br>1980FN<br>1980FN<br>1980FN<br>1980FN<br>1980FN<br>1980FN<br>1980FS<br>1980FS<br>1980FN<br>2310FS<br>1980FN<br>230FS   | 2310FW<br>1650FW<br>110FE<br>2110FE<br>660FW<br>1650FW<br>2310FE<br>660FW<br>1980FW<br>1980FW<br>1980FW<br>1980FF<br>2310FE<br>2310FE<br>2310FE  
  | 85% @ 1<br>85% @ 1<br>85% @ 1<br>85% @ 1<br>85% @ 1<br>85% @ 1<br>95% @ 1<br>95% @ 1<br>95% @ 1<br>95% @ 1<br>95% @ 1<br>103% @ 1   | 300 5<br>265 4<br>300 5<br>218 4<br>2256 4<br>2256 4<br>2256 4<br>2256 4<br>2256 4<br>2256 4<br>2256 7<br>2256 7<br>2256 7<br>2256 7<br>243 5<br>2250 7<br>245 7<br>256 4<br>245 7<br>245 7<br>256 7<br>256 7<br>245 7<br>256 7<br>256 7<br>245 7<br>256 7<br>255 7   | 1/2 @ 3322<br>1/2 @ 3311<br>1/2 @ 331<br>1/2 @ 342<br>1/2 @ 342<br>1/2 @ 342<br>1/2 @ 344<br>1/2 @ 344<br>1/2 @ 344<br>1/2 @ 344<br>1/2 @ 344<br>1/2 @ 355<br>0 @ 2975<br>1/2 @ 3322<br>1/2 @ 3322<br>1/2 @ 355<br>1/2 @ 3322  
  | 7<br>5: 2925-3275<br>NR<br>5: 2940-3225<br>4 1/2 @ 3260<br>2 7/8 @ 3297<br>CASING PROG1   |                      |  |
| 30025318560000<br>30025735610000<br>300253117180000<br>300253117180000<br>30025799720000<br>30025799720000<br>30025799720000<br>300255799710000<br>3002501740000<br>3002501740000<br>3002501740000<br>3002501740000<br>3002501740000<br>30025201740000<br>30025201740000<br>30025201740000<br>30025201740000<br>30025201740000<br>30025201740000<br>30025201740000<br>30025201740000<br>30025201740000<br>30025201740000<br>30025201740000<br>30025201740000<br>30025201740000<br>30025201740000<br>30025001740000   | ISTEVENS I TULL<br>GROVER OIL<br>STEVENS I TULL<br>GROVER J TULL<br>GROVER OIL<br>GROVER OIL<br>CROVER OIL<br>CROVER OIL<br>CROVER OIL<br>CROVER OIL<br>CITIES SERVICES OIL<br>HENDON WOLLAM E JR<br>CITIES SERVICES OIL<br>HANSON OIL<br>SINCLAIR OLG<br>READ I STEVENS, INC.<br>SHORELINE EXPL<br>SINCLAR OLG<br>ELD<br>OPER<br>PRICE MRS BERTIE NOLAND<br>PRICE MRS BERTIE NOLAND  | FEDERAL 'Y<br>FEDERAL<br>FEDERAL<br>FEDERAL<br>GARBER<br>FEDERAL<br>GARBER<br>STATE BF<br>ATCO STATE<br>STATE BF<br>ATCO STATE<br>STATE JEA<br>ARCO STATE<br>STATE LEA<br>STATE LEA<br>STATE LEA<br>STATE LEA<br>SNYDER<br>LEA STATE<br>UEASE<br>BURNER-FEDERAL<br>BURNER-FEDERAL   
   
  | MEL<br>3  |  
   
   | 33E<br>33E<br>33E<br>33E<br>33E<br>33E<br>33E<br>33E<br>33E<br>33E  | 9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9   | 300FN<br>1980FS<br>980FN<br>1980FS<br>1980FE<br>1980FE<br>1980FN<br>1980FN<br>1980FN<br>1980FN<br>1980FN<br>1980FN<br>1980FN<br>1980FN<br>2310FS<br>2310FS<br>2300FS<br>1980FS<br>330FS   
   | 2310FW<br>1650FW<br>2110FE<br>2310FE<br>660FW<br>1650FW<br>1940FE<br>660FW<br>1940FE<br>1940FE<br>1940FE<br>1940FE<br>1940FE<br>1940FE<br>1940FE  | 85% @ 1<br>85% @ 1<br>85% @ 1<br>85% @ 1<br>85% @ 1<br>85% @ 1<br>95% @ 1<br>95% @ 1<br>95% @ 1<br>95% @ 1<br>95% @ 1<br>103% @ 1   | 300 5<br>265 4<br>350 5<br>256 4<br>256 4<br>265 7<br>200 7<br>20   
   | 1/2 @ 3322<br>1/2 @ 3331<br>1/2 @ 331<br>1/2 @ 342<br>1/2 @ 342<br>1/2 @ 342<br>1/2 @ 342<br>1/2 @ 344<br>1/2 @ 344<br>1/2 @ 344<br>1/2 @ 3322<br>1/2 @ 3322<br>1/2 @ 3457<br>1/2 @ 3457  | 7<br>5 2925-3275<br>NR<br>5 2940-3225<br>4 1/2 Q 3260<br>2 7/6 Q 3297<br>7<br>CASING PROGI<br>7 Q 2599  |                      |  |
| 30025318560000<br>30025376610000<br>30025376610000<br>300253789720000<br>300255789720000<br>300255789720000<br>300255789720000<br>30025017410000<br>30025017410000<br>30025017410000<br>30025017410000<br>30025017410000<br>30025017410000<br>30025017430000<br>30025017430000<br>300250017430000<br>300250017430000<br>300250017430000<br>30025009330000<br>30025009330000  | ISTEVENS I TULL<br>GROVER OIL<br>STEVENS I TULL<br>GROVER MCKINNEY OIL<br>GROVER OIL<br>GROVER OIL<br>GROVER OIL<br>GROVER OIL<br>GROVER OIL<br>GROVER OIL<br>CITIES SERVICES OIL<br>HENDON WOLLIAM & JR<br>CITIES SERVICES OIL<br>HANSON OIL<br>SINCLAIR OIC<br>SINCLAIR OIC   | FEDERAL 'Y<br>FEDERAL<br>FEDERAL<br>FEDERAL<br>SARBER<br>FEDERAL<br>SARBER<br>STATE BF<br>ARCO STATE<br>STATE BF<br>ATCANTIC-STATE<br>STATE LEA<br>STATE-LEA<br>SNYDER<br>STATE-LEA<br>SNYDER<br>STATE-LEA<br>SNYDER<br>LEASTATE<br>LEASE<br>BURNER-FEDERAL<br>BURNER-FEDERAL<br>BURNER-FEDERAL<br>BURNER-FEDERAL<br>BURNER-FEDERAL   
   
  | MEL<br>3  |  
   
   | 33E<br>33E<br>33E<br>33E<br>33E<br>33E<br>33E<br>33E<br>33E<br>33E  | 9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9   | 330FN<br>1980FS<br>590FN<br>1980FS<br>1980FS<br>1980FS<br>1980FN<br>1980FN<br>1980FN<br>1980FN<br>1980FN<br>1980FN<br>2310FS<br>1980FN<br>2310FS<br>1980FN<br>230FS<br>1980FN<br>280FS<br>330FS<br>330FS  
   | 2310FW<br>1650FW<br>2110FE<br>2010FE<br>560FW<br>1650FW<br>1650FW<br>1940FE<br>660FW<br>1940FE<br>1940FE<br>2310FE<br>2310FE<br>1940FE<br>1940FE<br>1940FE<br>1940FE<br>1940FE<br>1940FE<br>2310FW  | 8 5/8 C 1<br>8 5/8 C 1<br>9 5/8 C 1<br>10 3/4 C 1<br>10 3/4 C 1<br>10 C 2<br>10 C 2<br>1  | 1300 5<br>265 4<br>300 5<br>256 4<br>256 4<br>256 4<br>256 4<br>245 7<br>280 7<br>2   | 1/2 (2 332)<br>1/2 (2 337)<br>1/2 (2 331)<br>1/2 (2 331)<br>1/2 (2 342)<br>1/2 (2 342)<br>1/2 (2 342)<br>1/2 (2 342)<br>1/2 (2 342)<br>1/2 (2 342)<br>(2 34)<br>(2 342)<br>(2 342)  | 7         7           7         7           5*         2925-3275*           NR         5*           5*         2940-3225*           4         1/2         0           2         7/6         0         3297*           7         7         0         2599*           7         0         2599*         7   |                      |  |
| 30025318560000<br>30025735610000<br>300253117180000<br>300253117180000<br>30025799720000<br>30025799720000<br>30025799720000<br>300255799710000<br>3002501740000<br>3002501740000<br>3002501740000<br>3002501740000<br>3002501740000<br>30025201740000<br>30025201740000<br>30025201740000<br>30025201740000<br>30025201740000<br>30025201740000<br>30025201740000<br>30025201740000<br>30025201740000<br>30025201740000<br>30025201740000<br>30025201740000<br>30025201740000<br>30025201740000<br>30025001740000   | ISTEVENS I TULL<br>GROVER OIL<br>GROVER SI TULL<br>GROVENS I TULL<br>GROVER OIL<br>GROVER OIL<br>GROVER OIL<br>GROVER OIL<br>CITIES SERVICES OIL<br>HENDON WOLLIAM E JR<br>CITIES SERVICES OIL<br>HANSON OIL<br>SINCLAIR OLG<br>SINCLAIR OLG<br>SINCLAIR OLG<br>SINCLAIR OLG<br>PRICE MAS BERTIE NOLAND<br>PRICE MAS BERTIE NOLAND  | FEDERAL 'Y<br>FEDERAL<br>FEDERAL<br>FEDERAL<br>GARBER<br>FEDERAL<br>GARBER<br>STATE BF<br>ATCO STATE<br>STATE BF<br>ATCO STATE<br>STATE JEA<br>ARCO STATE<br>STATE LEA<br>STATE LEA<br>STATE LEA<br>STATE LEA<br>SNYDER<br>LEA STATE<br>UEASE<br>BURNER-FEDERAL<br>BURNER-FEDERAL   
   
  | MEL<br>3  |  
   
   | 33E<br>33E<br>33E<br>33E<br>33E<br>33E<br>33E<br>33E<br>33E<br>33E  | 9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9   | 300FN<br>1980FS<br>980FN<br>1980FS<br>1980FE<br>1980FE<br>1980FN<br>1980FN<br>1980FN<br>1980FN<br>1980FN<br>1980FN<br>1980FN<br>1980FN<br>2310FS<br>2310FS<br>2300FS<br>1980FS<br>330FS   
   | 2310FW<br>1630FW<br>2110FE<br>2310FE<br>660FW<br>1650FW<br>2310FE<br>660FW<br>1980FE<br>2310FE<br>2310FE<br>2310FE<br>2310FE<br>2310FE<br>1980FW<br>1980FFW<br>1980FE<br>2310FE<br>2310FE<br>2310FW<br>2310FW<br>2310FW   | 8 5 % G 1<br>8 5 % G 1<br>9 5 % G 1<br>10 3 % G 1  | 1300 5<br>265 4<br>300 5<br>256 4<br>256 4<br>256 4<br>256 4<br>245 7<br>280 7<br>2   | 1/2 (2 332)<br>1/2 (2 337)<br>1/2 (2 331)<br>1/2 (2 331)<br>1/2 (2 342)<br>1/2 (2 342)<br>1/2 (2 342)<br>1/2 (2 342)<br>1/2 (2 342)<br>1/2 (2 342)<br>(2 34)<br>(2 342)<br>(2 342)  | 7<br>5 2925-3275<br>NR<br>5 2940-3225<br>4 1/2 Q 3260<br>2 7/6 Q 3297<br>7<br>CASING PROGI<br>7 Q 2599   
  |                      |  |
| 30025318560000<br>300253786610000<br>300255396610000<br>30025539720000<br>30025579500000<br>30025579500000<br>30025579500000<br>30025017410000<br>30025017410000<br>30025017410000<br>30025017410000<br>3002501745000<br>3002501745000<br>3002501745000<br>3002501745000<br>3002501745000<br>3002501745000<br>3002500330000<br>300250330000<br>300250330000<br>300250330000<br>300250330000<br>300250330000<br>300250330000<br>300250330000<br>300250330000<br>300250330000<br>300250330000<br>300250330000<br>300250330000<br>300250330000  | ISTEVENS I TULL<br>GROVER OIL<br>STEVENS I TULL<br>GROVER MCKINNEY OIL<br>GROVER OIL<br>GROVER OIL<br>GROVER OIL<br>GROVER OIL<br>GROVER OIL<br>CITIES SERVICES OIL<br>HENDON WOLLIAM E JR<br>CITIES SERVICES OIL<br>HANSON OIL<br>SINCLAIR OS C<br>SINCLAIR O             | FEDERAL 'Y<br>FEDERAL<br>FEDERAL<br>SARBER<br>STATE BF<br>ARCO STATE<br>STATE BF<br>ARCO STATE<br>STATE BF<br>ARCO STATE<br>STATE LEA<br>SIATE LEA<br>SIATE LEA<br>SIATE LEA<br>SIATE LEA<br>SIATE LEA<br>BURNER-FEDERAL<br>BURNER-FEDERAL<br>BURNER-FEDERAL<br>BURNER-FEDERAL<br>BURNER-FEDERAL<br>BURNER-FEDERAL<br>BURNER-FEDERAL<br>BURNER-FEDERAL<br>BURNER-FEDERAL<br>BURNER-FEDERAL<br>BURNER-FEDERAL<br>BURNER-FEDERAL<br>BURNER-FEDERAL<br>BURNER-FEDERAL<br>BURNER-FEDERAL<br>BURNER-FEDERAL<br>BURNER-FEDERAL<br>BURNER-FEDERAL<br>BURNER-FEDERAL<br>BURNER-FEDERAL<br>BURNER-FEDERAL<br>BURNER-FEDERAL<br>BURNER-FEDERAL   
   
   |   | 2020<br>2020<br>2020<br>2020<br>2020<br>2020<br>2020<br>202   
   
  | 336         336           336         336           336         336           336         336           336         336           336         336           336         336           336         336           336         336           336         336           336         336           336         336           336         336           336         336           336         336           336         336           336         336           336         336           337         336           336         336           337         336           336         336           337         336           336         336           337         336           337         336           336         336           337         336           337         336           337         336           337         336           337         336           337         336           336   | 9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9   | 330FN<br>1980FS<br>590FN<br>1980FS<br>1980FS<br>1980FS<br>1980FN<br>1980FN<br>1980FN<br>1980FN<br>1980FN<br>1980FN<br>2310FN<br>1980FN<br>2310FS<br>1980FN<br>2310FS<br>1980FS<br>330FS<br>330FS<br>330FS<br>2310FN<br>1980FN   |
2310FW<br>1650FW<br>2110FE<br>2310FE<br>660FW<br>1650FW<br>2310FE<br>2310FE<br>2310FW<br>1980FW<br>1980FW<br>1980FW<br>1980FW<br>1980FW<br>1980FW<br>1980FFW<br>1980FF<br>1980FFW<br>1980FF<br>1980FF<br>1980FF<br>1980FF<br>1980FF<br>1980FF<br>1980FF<br>1980FF<br>1980FF<br>1980FF<br>1980FF<br>1980FF<br>1980FF<br>1980FF<br>1980FF<br>1980FF<br>1980FF<br>1980FF<br>1980FF<br>1980FF<br>1980FF<br>1980FF<br>1980FF<br>1980FF<br>1980FF<br>1980FF<br>1980FF<br>1980FF<br>1980FF<br>1980FF<br>1980FF<br>1980FF<br>1980FF<br>1980FF<br>1980FF<br>1980FF<br>1980FF<br>1980FF<br>1980FF<br>1980FF<br>1980FF<br>1980FF<br>1980FF<br>1980FF<br>1980FF<br>1980FF<br>1980FF<br>1980FF<br>1980FF<br>1980FF<br>1980FF<br>1980FF<br>1980FF<br>1980FF<br>1980FF<br>1980FF<br>1980FF<br>1980FF<br>1980FF<br>1980FF<br>1980FF<br>1980FF<br>1980FF<br>1980FF<br>1980FF<br>1980FF<br>1980FF<br>1980FF<br>1980FF<br>1980FF<br>1980FF<br>1980FF<br>1980FF<br>1980FF<br>1980FF<br>1980FF<br>1980FF<br>1980FF<br>1980FF<br>1980FF<br>1980FF<br>1980FF<br>1980FF<br>1980FF<br>1980FF<br>1980FF<br>1980FF<br>1980FF<br>1980FF<br>1980FF<br>1980FF<br>1980FF<br>1980FF<br>1980FF<br>1980FF<br>1980FF<br>1980FF<br>1980FF<br>1980FF<br>1980FF<br>1980FF<br>1980FF<br>1980FF<br>1980FF<br>1980FF<br>1980FF<br>1980FF<br>1980FF<br>1980FF<br>1980FF<br>1980FF<br>1980FF<br>1980FF<br>1980FF<br>1980FF<br>1980FF<br>1980FF<br>1980FF<br>1980FF<br>1980FF<br>1980FF<br>1980FF<br>1980FF<br>1980FF<br>1980FF<br>1980FF<br>1980FF<br>1980FF<br>1980FF<br>1980FF<br>1980FF<br>1980FF<br>1980FF<br>1980FF<br>1980FF<br>1980FF<br>1980FF<br>1980FF<br>1980FF<br>1980FF<br>1980FF<br>1980FF<br>1980FF<br>1980FF<br>1980FF<br>1980FF<br>1980FF<br>1980FF<br>1980FF<br>1980FF<br>1980FF<br>1980FF<br>1980FF<br>1980FF<br>1980FF<br>1980FF<br>1980FF<br>1980FF<br>1980FF<br>1980FF<br>1980FF<br>1980FF<br>1980FF<br>1980FF<br>1980FF<br>1980FF<br>1980FF<br>1980FF<br>1980FF<br>1980FF<br>1980FF<br>1980FF<br>1980FF<br>1980FF<br>1980FF<br>1980FF<br>1980FF<br>1980FF<br>1980FF<br>1980FF<br>1980FF<br>1980FF<br>1980FF<br>1980FF<br>1980FF<br>1980FF<br>1980FF<br>1980FF<br>1980FF<br>1980FF<br>1980FF<br>1980FF<br>1980FF<br>1980FF<br>1980FF<br>1980FF<br>1980FF<br>1980FF<br>1980FF<br>1980FF<br>1980FF<br>1980FF<br>1980FF<br>1980FF<br>1980FF<br>1980FF<br>1980FF<br>1980FF<br>1980FF<br>1980FF<br>1980FF<br>1980FF<br>1980FF<br>1980FF<br>1980FF<br>1980FF<br>1980FF<br>1980FF<br>1980FF<br>1980FF<br>1980FF<br>1980FF<br>1980FF<br>1980FF<br>1980FF<br>1980FF<br>1980FF<br>1980FF<br>1980FF<br>1980FF<br>1980FF<br>1980FF<br>1980FF<br>1980FF<br>1980FF<br>1980FF<br>1980FF<br>1980FF<br>1980FF<br>1980FF<br>1980FF<br>1980FF<br>1980FF<br>1980FF<br>1980FF<br>1980FF<br>1980FF<br>1980FF<br>1980FF<br>1980FF<br>1980FF<br>1980FF<br>1980FF<br>1980FF<br>1980FF<br>1980FF<br>1980FF<br>1980FF<br>1980FF<br>1980FF<br>1980FF<br>1980FF<br>1980FF<br>1980FF<br>1980FF<br>1980FF<br>1980FF<br>1980FF<br>1980FF<br>1980FF<br>1980FF<br>1980FF<br>1980FF<br>1980FF<br>1  | 8 5.8 G 1<br>8 5.8 G 1<br>9 5.8 G 1<br>10 3.4 G<br>10 3.  | 1300 50<br>265 44<br>265 44<br>275 45<br>275 4   | 1/2 (2 332)<br>1/2 (2 332)<br>1/2 (2 331)<br>1/2 (2 332)<br>1/2 (2 332)<br>1/2 (2 332)<br>1/2 (2 332)<br>1/2 (2 332)<br>1/2 (2 332)<br>(2 333)<br>(2   | Γ         Γ             |                      |  |
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   | 2310FW<br>1650FW<br>2110FE<br>2510FE<br>2510FE<br>2510FE<br>2510FE<br>2510FE<br>2510FE<br>1980FW<br>1980FW<br>1980FW<br>1980FE<br>1980FW<br>1980FFW<br>1980FFW<br>1980FFW<br>2310FE<br>2310FE<br>2310FE<br>2310FE<br>2310FE   | 8 5 % @ 1<br>8 5 % @ 1<br>9 5 % @ 1<br>9 5 % @ 1<br>9 5 % @ 1<br>9 5 % @ 1<br>10 3 4 @ 1<br>10 0 4 @ 1<br>10 2 4 0<br>10 2 4 0<br>1  | 1300 6<br>265 4<br>200 5<br>218 4<br>256 7<br>200 7<br>2   | 1/2 (C 3322<br>1/2 (C 333)<br>1/2 (C 331)<br>1/2 (C 331)<br>1/2 (C 332)<br>1/2 (C  | 7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7   
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  | MEL 32  | 2000<br>2000<br>2000<br>2000<br>2000<br>2000<br>2000<br>200  
   
   | 336         336           336         336           336         336           336         336           336         336           336         336           336         336           336         336           336         336           336         336           336         336           336         336           336         336           336         336           336         336           336         336           3376         336           336         336           3376         336           3376         336           3376         3376           3376         3376  | 9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9   | 330FN<br>1980FS<br>980FN<br>1980FS<br>1980FF<br>1980FF<br>1980FN<br>1980FN<br>1980FN<br>1980FN<br>1980FN<br>1980FN<br>1980FN<br>1980FN<br>1980FN<br>2310FN<br>2310FS<br>330FS<br>330FS<br>2310FN<br>2210FS<br>2310FN  
   | 2310FW<br>1650FW<br>2110FE<br>2310FE<br>660FW<br>1650FW<br>2310FE<br>660FW<br>1980FE<br>2310FE<br>2310FE<br>2310FE<br>2310FE<br>2310FE<br>1980FW<br>1980FW<br>1980FW<br>1980FW<br>1980FW<br>1980FW<br>1980FW<br>1980FW<br>1980FW<br>1980FW<br>1980FW<br>1980FW  | 8 3 % G 1<br>8 5 % G 1<br>9 5 % G 1<br>10 3 % G 1<br>10 %  | 1300 55<br>265 14 25<br>215 14 14<br>243 55<br>243 57<br>243 57<br>243 57<br>243 57<br>245 74<br>243 57<br>196 55<br>196 55  | 1/2 (2 332)<br>1/2 (2 337)<br>1/2 (2 337)<br>1/2 (2 337)<br>1/2 (2 337)<br>1/2 (2 337)<br>1/2 (2 337)<br>(2  | Γ         Γ            
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  | MEL 32  | 2000<br>2000<br>2000<br>2000<br>2000<br>2000<br>2000<br>200  
   
   | 336         336           336         336           336         336           336         336           336         336           336         336           336         336           336         336           336         336           336         336           336         336           336         336           336         336           336         336           336         336           336         336           3376         336           336         336           3376         336           3376         336           3376         3376           3376         3376  | 9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9   | 330FN<br>1980FS<br>950FN<br>1980FS<br>1980FS<br>1980FS<br>1980FS<br>1980FN<br>1980FN<br>1980FN<br>1980FN<br>1980FN<br>1980FN<br>1980FN<br>2310FS<br>1980FS<br>1980FN<br>2310FS<br>1980FN<br>2310FN<br>2310FN<br>2310FN<br>2310FN<br>2310FN  | 2310FW<br>1650FW<br>2110FE<br>660FW<br>1650FW<br>2310FE<br>660FW<br>1980FE<br>660FW<br>1980FW<br>1980FE<br>1980FW<br>2310FE<br>1980FW<br>2310FE<br>1980FW<br>2310FE<br>1980FFW<br>2310FFW<br>2310FFW<br>2310FFW<br>2310FFW<br>2310FFW<br>2310FFW  
   | 85% @ 1<br>85% @ 1<br>85% @ 1<br>85% @ 1<br>85% @ 1<br>85% @ 1<br>95% @ 1<br>1034 @<br>1034 @<br>100 @<br>1 | 1300 5<br>265 4<br>265 4<br>256 4<br>256 4<br>256 4<br>256 4<br>256 4<br>256 4<br>257 4<br>245 7<br>245 7<br>2   | 1/2 @ 3322<br>1/2 @ 3331<br>1/2 @ 331<br>1/2 @ 342<br>1/2 @ 342<br>1/2 @ 342<br>1/2 @ 342<br>1/2 @ 344<br>1/2 @ 344<br>1/2 @ 344<br>1/2 @ 344<br>1/2 @ 344<br>1/2 @ 344<br>1/2 @ 3322<br>1/2 @ 3322   | Γ         Γ           Γ         Γ           Γ         Γ           Γ         2925-3275'           NR         2940-3225'           4         1/2 g 3260'           2         7/6 g 3297'           Γ         2599'           Γ         2599'           Γ         2599'           Γ         2546'           1/2 g 2545'           4         1/2 g 2546'           1/2 g 2546'           1/2 g 2546'           7 g 2617'           7 g 2625'  |                      |  |
| 30025318560000<br>300253786610000<br>300253786610000<br>30025379750000<br>300255799770000<br>300255799770000<br>300255799770000<br>30025017450000<br>30025017450000<br>30025017450000<br>30025017450000<br>30025017450000<br>30025017450000<br>30025017450000<br>30025017450000<br>30025009350000<br>30025009450000<br>30025009410000  | ISTEVENS I TULL<br>GROVER OIL<br>GROVER SI TULL<br>GROVER ALCKINNEY OIL<br>GROVER OIL<br>GROVER OIL<br>GROVER OIL<br>GROVER OIL<br>CITIES SERVICES OIL<br>HENDON WOLLIAM E JR<br>CITIES SERVICES OIL<br>HANSON OIL<br>SINCLAIR OLG<br>SINCLAIR OLG<br>SINCLAIR OLG<br>SINCLAIR OLG<br>SINCLAIR OLG<br>PRICE MAS BERTIE NOLAND<br>PRICE MAS BERTIE NOLAND   | FEDERAL 'Y<br>FEDERAL<br>FEDERAL<br>FEDERAL<br>GARBER<br>STATE BF<br>ATCO STATE<br>STATE BF<br>ATCO STATE<br>STATE BF<br>ATCO STATE<br>STATE JEA<br>STATE JEA<br>STATE JEA<br>STATE JEA<br>STATE JEA<br>BURNER.FEDERAL<br>BURNER.FEDERAL<br>BURNER.FEDERAL<br>BURNER.FEDERAL<br>BURNER.FEDERAL<br>BURNER.FEDERAL<br>BURNER.FEDERAL<br>BURNER.FEDERAL<br>BURNER.FEDERAL<br>BURNER.FEDERAL<br>BURNER.FEDERAL<br>BURNER.FEDERAL<br>BURNER.FEDERAL<br>BURNER.FEDERAL<br>BURNER.FEDERAL<br>BURNER.FEDERAL<br>BURNER.FEDERAL<br>BURNER.FEDERAL<br>BURNER.FEDERAL<br>STATE<br>STATE<br>STATE  
   
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  | 336         336           336         336           336         336           336         336           336         336           336         336           336         336           336         336           336         336           336         336           336         336           336         336           336         336           336         336           336         336           336         336           336         336           336         336           337         336           336         336           337         336           336         336           337         336           336         336           337         336           337         336           336         336           337         336           337         336           337         336           337         336           337         336           337         336           336   | 9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9   |
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   | 1/2 @ 3322<br>1/2 @ 3331<br>1/2 @ 331<br>1/2 @ 342<br>1/2   | 7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7  |                      |  |
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  | 2310FW<br>1650FW<br>2110FE<br>2310FE<br>660FW<br>1650FW<br>2310FE<br>2310FE<br>2310FE<br>2310FE<br>2310FE<br>2310FE<br>2310FE<br>2310FE<br>2310FE<br>2310FE<br>2310FE<br>2310FE<br>2310FE<br>2310FE<br>2310FE<br>2310FE<br>2310FE<br>2310FE<br>2310FE<br>2310FE<br>2310FE<br>2310FE<br>2310FE   | 8 5 % G 1<br>8 5 % G 1<br>9 5 % G 1<br>10 3 % G 1<br>10 0 0 % G 1<br>10 0 % G 1  | 1300 6 5 7 7 7 1 1 1 2 5 6 6 1 2 5 7 7 7 1 2 5 7 6 1 2 5 7 7 7 1 2 5 7 7 7 7 1 2 5 7 7 7 7 1 2 5 7 7 7 7 7 1 2 5 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7  
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  | 2310FW<br>1650FW<br>2110FE<br>2310FE<br>660FW<br>2310FE<br>2310FE<br>2310FE<br>2310FE<br>660FW<br>1980FE<br>660FW<br>1980FE<br>1980FW<br>1980FE<br>1980FF<br>1980FF<br>1980FF<br>1980FF<br>1980FF<br>1980FF<br>1980FF<br>1980FF<br>1980FF<br>1980FF<br>1980FF<br>1980FF<br>1980FF<br>1980FF<br>1980FF<br>1980FF<br>1980FF<br>1980FF<br>1980FF<br>1980FF<br>1980FF<br>2310FF<br>2310FF<br>2310FF<br>2310FF<br>2310FF<br>2310FF<br>2310FF<br>2310FF<br>2310FF<br>2310FF<br>2310FF<br>2310FF<br>2310FF<br>2310FF<br>2310FF<br>2310FF<br>2310FF<br>2310FF<br>2310FF<br>2310FF<br>2310FF<br>2310FF<br>2310FF<br>2310FF<br>2310FF<br>2310FF<br>2310FF<br>2310FF<br>2310FF<br>2310FF<br>2310FF<br>2310FF<br>2310FF<br>2310FF<br>2310FF<br>2310FF<br>2310FF<br>2310FF<br>2310FF<br>2310FF<br>2310FF<br>2310FF<br>2310FF<br>2310FF<br>2310FF<br>2310FF<br>2310FF<br>2310FF<br>2310FF<br>2310FF<br>2310FF<br>2310FF<br>2310FF<br>2310FF<br>2310FF<br>2310FF<br>2310FF<br>2310FF<br>2310FF<br>2310FF<br>2310FF<br>2310FF<br>2310FF<br>2310FF<br>2310FF<br>2310FF<br>2310FF<br>2310FF<br>2310FF<br>2310FF<br>2310FF<br>2310FF<br>2310FF<br>2310FF<br>2310FF<br>2310FF<br>2310FF<br>2310FF<br>2310FF<br>2310FF<br>2310FF<br>2310FF<br>2310FF<br>2310FF<br>2310FF<br>2310FF<br>2310FF<br>2310FF<br>2310FF<br>2310FF<br>2310FF<br>2310FF<br>2310FF<br>2310FF<br>2310FF<br>2310FF<br>2310FF<br>2310FF<br>2310FF<br>2310FF<br>2310FF<br>2310FF<br>2310FF<br>2310FF<br>2310FF<br>2310FF<br>2310FF<br>2310FF<br>2310FF<br>2310FF<br>2310FF<br>2310FF<br>2310FF<br>2310FF<br>2310FF<br>2310FF<br>2310FF<br>2310FF<br>2310FF<br>2310FF<br>2310FF<br>2310FF<br>2310FF<br>2310FF<br>2310FF<br>2310FF<br>2310FF<br>2310FF<br>2310FF<br>2310FF<br>2310FF<br>2310FF<br>2310FF<br>2310FF<br>2310FF<br>2310FF<br>2310FF<br>2310FF<br>2310FF<br>2310FF<br>2310FF<br>2310FF<br>2310FF<br>2310FF<br>2310FF<br>2310FF<br>2310FF<br>2310FF<br>2310FF<br>2310FF<br>2310FF<br>2310FF<br>2310FF<br>2310FF<br>2310FF<br>2310FF<br>2310FF<br>2310FF<br>2310FF<br>2310FF<br>2310FF<br>2310FF<br>2310FF<br>2310FF<br>2310FF<br>2310FF<br>2310FF<br>2310FF<br>2310FF<br>2310FF<br>2310FF<br>2310FF<br>2310FF<br>2310FF<br>2310FF<br>2310FF<br>2310FF<br>2310FF<br>2310FF<br>2310FF<br>2310FF<br>2310FF<br>2310FF<br>2310FF<br>2310FF<br>2310FF<br>2310FF<br>2310FF<br>2310FF<br>2310FF<br>2310FF<br>2310FF<br>2310FF<br>2310FF<br>2310FF<br>2310FF<br>2310FF<br>2310FF<br>2310FF<br>2310FF<br>2310FF<br>2310FF<br>2310FF<br>2310FF<br>2310FF<br>2310FF<br>2310FF<br>2310FF<br>2310FF<br>2310FF<br>2310FF<br>2310FF<br>2310FF<br>2310FF<br>2310FF<br>2310FF<br>2310FF<br>2310FF<br>2310FF<br>2310FF<br>2310FF<br>2310FF<br>2310FF<br>2310FF<br>2310FF<br>2310FF<br>2310FF<br>2310FF<br>2310FF<br>2310FF<br>2310FF<br>2310FF<br>2310FF<br>2310FF<br>2310FF<br>2310FF<br>2310FF<br>2310FF<br>2310FF<br>2310FF<br>2310FF<br>2310FF<br>2310FF<br>2310FF<br>2310FF<br>2310FF<br>2310FF<br>2310FF<br>2310FF<br>2310FF<br>2310FF<br>2310FF<br>2310FF<br>2310FF<br>2310FF<br>2310FF<br>2310F  | 85% 0 1<br>85% 0 1<br>85% 0 1<br>85% 0 1<br>85% 0 1<br>85% 0 1<br>85% 0 1<br>95% 0 1<br>95% 0 1<br>95% 0 1<br>1034 0<br>1034 0<br>1004 0<br>1000  | 1300 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5   
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2310FW<br>1650FW<br>2110FE<br>2310FE<br>660FW<br>1650FW<br>2310FE<br>660FW<br>1980FE<br>660FW<br>1980FE<br>2310FE<br>2310FE<br>2310FE<br>2310FE<br>2310FE<br>2310FE<br>2310FE<br>2310FE<br>2310FFE<br>2310FFE<br>2310FFE<br>2310FFE<br>2310FFE<br>2310FFE<br>2310FFE<br>2310FFE<br>2310FFE<br>2310FFE<br>2310FFE<br>2310FFE<br>2310FFE<br>2310FFE<br>2310FFE<br>2310FFE<br>2310FFE<br>2310FFE<br>2310FFE<br>2310FFE<br>2310FFE<br>2310FFE<br>2310FFE<br>2310FFE<br>2310FFE<br>2310FFE<br>2310FFE<br>2310FFE<br>2310FFE<br>2310FFE<br>2310FFE<br>2310FFE<br>2310FFE<br>2310FFE<br>2310FFE<br>2310FFE<br>2310FFE<br>2310FFE<br>2310FFE<br>2310FFE<br>2310FFE<br>2310FFE<br>2310FFE<br>2310FFE<br>2310FFE<br>2310FFE<br>2310FFE<br>2310FFE<br>2310FFE<br>2310FFE<br>2310FFE<br>2310FFE<br>2310FFE<br>2310FFE<br>2310FFE<br>2310FFE<br>2310FFE<br>2310FFE<br>2310FFE<br>2310FFE<br>2310FFE<br>2310FFE<br>2310FFE<br>2310FFE<br>2310FFE<br>2310FFE<br>2310FFE<br>2310FFE<br>2310FFE<br>2310FFE<br>2310FFE<br>2310FFE<br>2310FFE<br>2310FFE<br>2310FFE<br>2310FFE<br>2310FFE<br>2310FFE<br>2310FFE<br>2310FFE<br>2310FFE<br>2310FFE<br>2310FFE<br>2310FFE<br>2310FFE<br>2310FFE<br>2310FFE<br>2310FFE<br>2310FFE<br>2310FFE<br>2310FFE<br>2310FFE<br>2310FFE<br>2310FFE<br>2310FFE<br>2310FFE<br>2310FFE<br>2310FFE<br>2310FFE<br>2310FFE<br>2310FFE<br>2310FFE<br>2310FFE<br>2310FFE<br>2310FFE<br>2310FFE<br>2310FFE<br>2310FFE<br>2310FFE<br>2310FFE<br>2310FFE<br>2310FFE<br>2310FFE<br>2310FFE<br>2310FFE<br>2310FFE<br>2310FFE<br>2310FFE<br>2310FFE<br>2310FFE<br>2310FFE<br>2310FFE<br>2310FFE<br>2310FFE<br>2310FFE<br>2310FFE<br>2310FFE<br>2310FFE<br>2310FFE<br>2310FFE<br>2310FFE<br>2310FFE<br>2310FFE<br>2310FFE<br>2310FFE<br>2310FFE<br>2310FFE<br>2310FFE<br>2310FFE<br>2310FFE<br>2310FFE<br>2310FFE<br>2310FFE<br>2310FFE<br>2310FFE<br>2310FFE<br>2310FFE<br>2310FFE<br>2310FFE<br>2310FFE<br>2310FFE<br>2310FFE<br>2310FFE<br>2310FFE<br>2310FFE<br>2310FFE<br>2310FFE<br>2310FFE<br>2310FFE<br>2310FFE<br>2310FFE<br>2310FFE<br>2310FFE<br>2310FFE<br>2310FFE<br>2310FFE<br>2310FFE<br>2310FFE<br>2310FFE<br>2310FFE<br>2310FFE<br>2310FFE<br>2310FFE<br>2310FFE<br>2310FFE<br>2310FFE<br>2310FFE<br>2310FFE<br>2310FFE<br>2310FFE<br>2310FFE<br>2310FFE<br>2310FFE<br>2310FFE<br>2310FFE<br>2310FFE<br>2310FFE<br>2310FFE<br>2310FFE<br>2310FFE<br>2310FFE<br>2310FFE<br>2310FFE<br>2310FFE<br>2310FFE<br>2310FFE<br>2310FFE<br>2310FFE<br>2310FFE<br>2310FFE<br>2310FFE<br>2310FFE<br>2310FFE<br>2310FFE<br>2310FFE<br>2310FFE<br>2310FFE<br>2310FFE<br>2310FFE<br>2310FFE<br>2310FFE<br>2310FFE<br>2310FFE<br>2310FFE<br>2310FFE<br>2310FFE<br>2310FFE<br>2310FFE<br>2310FFE<br>2310FFE<br>2310FFE<br>2310FFE<br>2310FFE<br>2310FFE<br>2310FFE<br>2310FFE<br>2310FFE<br>2310FFE<br>2310FFE<br>2310FFE<br>2310FFE<br>2310FFE<br>2310FFE<br>2310FFE<br>2310FFE<br>2310FFE<br>2310FFE<br>2310FFE<br>2310FFE<br>2310  | 8 5% @ 1<br>8 5% @ 1<br>9 5% @ 1<br>10 34 @<br>10 0 24 @<br>10 0 @<br>1  | 300 9 27 300 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7   | 1/2 (G 33)2<br>1/2 (G 33)2<br>1/2 (G 33)1<br>1/2 (G 33)1<br>1/2 (G 33)<br>1/2 (G 33)<br>1/2 (G 33)<br>1/2 (G 33)2<br>(G 23)7<br>1/2 (G 33)2<br>(G 23)7<br>(G 23)7<br>(   
  | Γ         Γ           Γ         Γ           Γ         Γ           Γ         Γ           Γ         Γ           Γ         2925-3275'           NR         5'           Γ         2940-3225'           4         1/2 @ 3260'           2         7% @ 3297'           Γ         2599'           Γ         2589'           Γ         2585'           4         1/2 @ 2545'           4         1/2 @ 2545'           4         1/2 @ 2545'           4         1/2 @ 2685'           4         1/2 @ 2685'           5         1/2 @ 2685'           5         1/2 @ 2494'  |                      |  |
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    | ISTEVENS I TULL<br>GROVER OIL<br>STEVENS I TULL<br>GROVER MCKINNEY OIL<br>GROVER OIL<br>SIRCLAIR OI<br>SINCLAIR OIG<br>SINCLAIR OIG<br>SINCLAIR OIG<br>SINCLAIR OIG<br>SINCLAIR OIG<br>FRICE MAS BERTIE NOLAND<br>PRICE MAS BERTIE NOLAND<br>PRICE MAS BERTIE NOLAND<br>PRICE MAS BERTIE NOLAND<br>PRICE WAS BERTIE NOLAND   | FEDERAL 'Y<br>FEDERAL<br>FEDERAL<br>FEDERAL<br>SARBER<br>STATE BF<br>ARCO STATE<br>STATE BF<br>ARCO STATE<br>STATE BF<br>ATCANTIC-STATE<br>STATE LEA<br>SIATE BF<br>ATCANTIC-STATE<br>STATE LEA<br>SIATE BF<br>ATCANTIC-STATE<br>STATE-LEA<br>SIATE BF<br>ATCANTIC-STATE<br>STATE-LEA<br>SIATE-LEA<br>SIATE-LEA<br>SIATE-LEA<br>SIATE-STATE<br>BURNER-FEDERAL<br>BURNER-FEDERAL<br>BURNER-FEDERAL<br>BURNER-FEDERAL<br>BURNER-FEDERAL<br>BURNER-FEDERAL<br>BURNER-FEDERAL<br>BURNER-FEDERAL<br>BURNER-FEDERAL<br>BURNER-FEDERAL<br>BURNER-FEDERAL<br>BURNER-FEDERAL<br>BURNER-FEDERAL<br>BURNER-FEDERAL<br>BURNER-FEDERAL<br>BURNER-FEDERAL<br>BURNER-FEDERAL<br>BURNER-FEDERAL<br>BURNER-FEDERAL<br>BURNER-FEDERAL<br>BURNER-FEDERAL<br>BURNER-FEDERAL<br>BURNER-FEDERAL<br>BURNER-FEDERAL<br>BURNER-FEDERAL<br>BURNER-FEDERAL<br>BURNER-FEDERAL<br>BURNER-FEDERAL<br>BURNER-FEDERAL<br>BURNER-FEDERAL<br>BURNER-FEDERAL<br>BURNER-FEDERAL<br>BURNER-FEDERAL<br>BURNER-FEDERAL<br>BURNER-FEDERAL<br>BURNER-FEDERAL<br>BURNER-FEDERAL<br>BURNER-FEDERAL<br>BURNER-FEDERAL<br>BURNER-FEDERAL<br>BURNER-FEDERAL<br>BURNER-FEDERAL<br>BURNER-FEDERAL<br>BURNER-FEDERAL<br>BURNER-FEDERAL<br>BURNER-FEDERAL<br>BURNER-FEDERAL<br>BURNER-FEDERAL<br>BURNER-FEDERAL<br>BURNER-FEDERAL<br>BURNER-FEDERAL<br>BURNER-FEDERAL<br>BURNER-FEDERAL<br>BURNER-FEDERAL<br>BURNER-FEDERAL<br>BURNER-FEDERAL<br>BURNER-FEDERAL<br>BURNER-FEDERAL<br>BURNER-FEDERAL<br>BURNER-FEDERAL<br>BURNER-FEDERAL<br>BURNER-FEDERAL<br>BURNER-FEDERAL<br>BURNER-FEDERAL<br>BURNER-FEDERAL<br>BURNER-FEDERAL<br>BURNER-FEDERAL<br>BURNER-FEDERAL<br>BURNER-FEDERAL<br>BURNER-FEDERAL<br>BURNER-FEDERAL<br>BURNER-FEDERAL<br>BURNER-FEDERAL<br>BURNER-FEDERAL<br>BURNER-FEDERAL<br>BURNER-FEDERAL<br>BURNER-FEDERAL<br>BURNER-FEDERAL<br>BURNER-FEDERAL<br>BURNER-FEDERAL<br>BURNER-FEDERAL<br>BURNER-FEDERAL<br>BURNER-FEDERAL<br>BURNER-FEDERAL<br>BURNER-FEDERAL<br>BURNER-FEDERAL<br>BURNER-FEDERAL<br>BURNER-FEDERAL<br>BURNER-FEDERAL<br>BURNER-FEDERAL<br>BURNER-FEDERAL<br>BURNER-FEDERAL<br>BURNER-FEDERAL<br>BURNER-FEDERAL<br>BURNER-FEDERAL<br>BURNER-FEDERAL<br>BURNER-FEDERAL<br>BURNER-FEDERAL<br>BURNER-FEDERAL<br>BURNER-FEDERAL<br>BURNER-FEDERAL<br>BURNER-FEDERAL<br>BURNER-FEDERAL<br>BURNER-FEDERAL<br>BURNER-FEDERAL<br>BURNER-FEDERAL<br>BURNER-FEDERAL<br>BURNER-FEDERAL<br>BURNER-FEDERAL<br>BURNER-FEDERAL<br>BURNER-FEDERAL<br>BURNER-FEDERAL<br>BURNER-FEDERAL<br>BURNER-FEDERAL<br>BURNER-FEDERAL<br>BURNER-FEDERAL<br>BURNER-FEDERAL<br>BURNER-FEDERAL<br>BURNER-FEDERAL<br>B 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<td>8 5% Q 1<br/>8 5% Q 1<br/>9 5% Q 1<br/>10 3/4 Q<br/>10 0/4 Q<br/>10 0/4</td> <td>300 300 300 300 300 300 300 300 300 300</td> <td>1/2 Q 332<br/>1/2 Q 332<br/>1/2 Q 337<br/>1/2 Q 337<br/>1/2 Q 337<br/>1/2 Q 342<br/>1/2 Q 342<br/>1/4 Q 34<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td> <td>Γ       S<sup>1</sup>       2925-3275'       NR       S<sup>2</sup>       2940-3225'       4       1/2       Q       27/6       Q       25/7       Q       26/7       CASING PROGF       8 5/8 Q       1/68'</td> <td></td> <td></td>   
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OIG<br>PRICE MAS BERTIE NOLAND<br>PRICE MAS BERTIE NOLAND<br>PRICE MAS BERTIE NOLAND<br>BASS PERRY R<br>SECO PROD<br>SAIKIN DAVIO C<br>FRICE WAS BERTIE NOLAND<br>PRICE MAS BERTIE NOLAND<br>PRICE MAS BERTIE NOLAND<br>PRICE MAS BERTIE NOLAND<br>BASS PERRY R<br>SECO PROD<br>SAIKIN DAVIO C<br>FRICE WAS BERTIE NOLAND<br>PRICE MAS BERTIE NOLAND<br>PRICE MAS BERTIE NOLAND<br>PRICE MAS BERTIE NOLAND<br>BEARING SER I SUPPLY<br>7500 OIL COMPANY<br>INJSKY OIL COMPANY<br>INJSKY OIL COMPANY<br>NORTH SHORE CORP<br>FIEL D<br>OPER<br>LIANO INC<br>CONTINENTAL OIL<br>CONTINENTAL OIL  | FEDERAL 'Y<br>FEDERAL<br>FEDERAL<br>FEDERAL<br>SARBER<br>STATE BF<br>ARCO STATE<br>STATE BF<br>ARCO STATE<br>STATE BF<br>ARCO STATE<br>STATE LEA<br>SIATE LEA<br>STATE STATE<br>EDURNER-FEDERAL<br>BURNER-FEDERAL<br>BURNER-FEDERAL<br>BURNER-FEDERAL<br>BURNER-FEDERAL<br>BURNER-FEDERAL<br>STATE<br>STATE<br>STATE<br>STATE<br>STATE<br>STATE<br>STATE<br>STATE<br>STATE<br>STATE<br>STATE<br>STATE<br>STATE<br>STATE<br>STATE<br>STATE<br>STATE<br>STATE<br>STATE<br>STATE<br>STATE<br>STATE<br>STATE<br>STATE<br>STATE<br>STATE<br>STATE<br>STATE<br>STATE<br>STATE<br>STATE<br>STATE<br>STATE<br>STATE<br>STATE<br>STATE<br>STATE<br>STATE<br>STATE<br>STATE<br>STATE<br>STATE<br>STATE<br>STATE<br>STATE<br>STATE<br>STATE<br>STATE<br>STATE<br>STATE<br>STATE<br>STATE<br>STATE<br>STATE<br>STATE<br>STATE<br>STATE<br>STATE<br>STATE<br>STATE<br>STATE<br>STATE<br>STATE<br>STATE<br>STATE<br>STATE<br>STATE<br>STATE<br>STATE<br>STATE<br>STATE<br>STATE<br>STATE<br>STATE<br>STATE<br>STATE  | Image: Constraint of the second sec | 2020         20200         2020 <t< td=""><td>336         336           336         336           336         336           336         336           336        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16</td><td>330FN<br/>1980FS<br/>950FN<br/>1980FS<br/>1980FS<br/>1980FS<br/>1980FS<br/>1980FN<br/>1980FN<br/>1980FN<br/>1980FN<br/>1980FN<br/>1980FN<br/>2310FN<br/>2310FS<br/>1980FS<br/>2310FS<br/>1980FS<br/>2310FN<br/>2310FS<br/>2310FN<br/>2310FN<br/>2310FN<br/>2310FN<br/>2310FN<br/>2310FN<br/>2310FN<br/>2310FN<br/>2310FN<br/>2310FN<br/>2310FN<br/>2310FN<br/>2310FN<br/>2310FN<br/>2310FN<br/>2310FN<br/>2310FN<br/>2310FN<br/>2310FN<br/>2310FN<br/>2310FN<br/>2310FN<br/>2310FN<br/>2310FN<br/>2310FN<br/>2310FN<br/>2310FN<br/>2310FN<br/>2310FN<br/>2310FN<br/>2310FN<br/>2310FN<br/>2310FN<br/>2310FN<br/>2310FN<br/>2310FN<br/>2310FN<br/>2310FN<br/>2310FN<br/>2310FN<br/>2310FN<br/>2310FN<br/>2310FN<br/>2310FN<br/>2310FN<br/>2310FN<br/>2310FN<br/>2310FN<br/>2310FN<br/>2310FN<br/>2310FN<br/>2310FN<br/>2310FN<br/>2310FN<br/>2310FN<br/>2310FN<br/>2310FN<br/>2310FN<br/>2310FN<br/>2310FN<br/>2310FN<br/>2310FN<br/>2310FN<br/>2310FN<br/>2310FN<br/>230FN<br/>230FN<br/>230FN<br/>230FN<br/>230FN<br/>230FN<br/>230FN<br/>230FN<br/>230FN<br/>230FN<br/>230FN<br/>230FN<br/>230FN<br/>230FN<br/>230FN<br/>230FN<br/>230FN<br/>230FN<br/>230FN<br/>230FN<br/>230FN<br/>230FN<br/>230FN<br/>230FN<br/>230FN<br/>230FN<br/>230FN<br/>230FN<br/>230FN<br/>230FN<br/>230FN<br/>230FN<br/>230FN<br/>230FN<br/>230FN<br/>230FN<br/>230FN<br/>230FN<br/>230FN<br/>230FN<br/>230FN<br/>230FN<br/>230FN<br/>230FN<br/>230FN<br/>230FN<br/>230FN<br/>230FN<br/>230FN<br/>230FN<br/>230FN<br/>230FN<br/>230FN<br/>230FN<br/>230FN<br/>230FN<br/>230FN<br/>230FN<br/>230FN<br/>230FN<br/>230FN<br/>230FN<br/>230FN<br/>230FN<br/>230FN<br/>230FN<br/>230FN<br/>230FN<br/>230FN<br/>230FN<br/>230FN<br/>230FN<br/>230FN<br/>230FN<br/>230FN<br/>230FN<br/>230FN<br/>230FN<br/>230FN<br/>230FN<br/>230FN<br/>230FN<br/>230FN<br/>230FN<br/>230FN<br/>230FN<br/>230FN<br/>230FN<br/>230FN<br/>230FN<br/>200FN<br/>230FN<br/>200FN<br/>200FN<br/>200FN<br/>200FN<br/>200FN<br/>200FN<br/>200FN<br/>200FN<br/>200FN<br/>200FN<br/>200FN<br/>200FN<br/>200FN<br/>200FN<br/>200FN<br/>200FN<br/>200FN<br/>200FN<br/>200FN<br/>200FN<br/>200FN<br/>200FN<br/>200FN<br/>200FN<br/>200FN<br/>200FN<br/>200FN<br/>200FN<br/>200FN<br/>200FN<br/>200FN<br/>200FN<br/>200FN<br/>200FN<br/>200FN<br/>200FN<br/>200FN<br/>200FN<br/>200FN<br/>200FN<br/>200FN<br/>200FN<br/>200FN<br/>200FN<br/>200FN<br/>200FN<br/>200FN<br/>200FN<br/>200FN<br/>200FN<br/>200FN<br/>200FN<br/>200FN<br/>200FN<br/>200FN<br/>200FN<br/>200FN<br/>200FN<br/>200FN<br/>200FN<br/>200FN<br/>200FN<br/>200FN<br/>200FN<br/>200FN<br/>200FN<br/>200FN<br/>200FN<br/>200FN<br/>200FN<br/>200FN<br/>200FN<br/>200FN<br/>200FN<br/>200FN<br/>200FN<br/>200FN<br/>200FN<br/>200FN<br/>200FN<br/>200FN<br/>200FN<br/>200FN<br/>200FN<br/>200FN<br/>200FN<br/>200FN<br/>200FN<br/>200FN<br/>200FN<br/>200FN<br/>200FN<br/>200FN<br/>200FN<br/>200FN<br/>200FN<br/>200FN<br/>200FN<br/>200FN<br/>200FN<br/>200FN<br/>200FN<br/>200FN<br/>200FN<br/>200FN<br/>200FN<br/>200FN<br/>200FN<br/>200FN<br/>200FN<br/>200FN<br/>200FN<br/>200FN<br/>200FN<br/>200FN<br/>200FN<br/>200FN<br/>200FN<br/>200FN<br/>200FN<br/>200FN<br/>200FN<br/>200FN<br/>200FN<br/>200FN<br/>200FN<br/>200FN<br/>200FN<br/>200FN<br/>200FN<br/>200FN<br/>200FN<br/>200FN<br/>200FN<br/>200FN<br/>200FN<br/>200FN<br/>200FN<br/>200FN<br/>200FN<br/>200FN<br/>200FN<br/>200FN<br/>200FN<br/>200FN<br/>200FN<br/>200FN<br/>200FN<br/>200FN<br/>200FN<br/>2</td><td>2310FW<br/>1650FW<br/>2110FE<br/>2310FE<br/>660FW<br/>2310FE<br/>660FW<br/>2310FE<br/>660FW<br/>1980FE<br/>660FW<br/>2310FE<br/>1980FW<br/>1980FE<br/>1980FW<br/>2310FE<br/>1980FW<br/>2310FE<br/>1980FW<br/>2310FE<br/>2310FE<br/>2310FE<br/>2310FE<br/>2310FE<br/>2310FE<br/>2310FE<br/>2310FE<br/>2310FE<br/>2310FE<br/>2310FE<br/>2310FE<br/>2310FE<br/>2310FE<br/>2310FE<br/>2310FE<br/>2310FE<br/>2310FE<br/>2310FE<br/>2310FE<br/>2310FE<br/>2310FE<br/>2310FE<br/>2310FE<br/>2310FE<br/>2310FE<br/>2310FE<br/>2310FE<br/>2310FE<br/>2310FE<br/>2310FE<br/>2310FE<br/>2310FE<br/>2310FE<br/>2310FE<br/>2310FE<br/>2310FE<br/>2310FE<br/>2310FE<br/>2310FE<br/>2310FE<br/>2310FE<br/>2310FE<br/>2310FE<br/>2310FE<br/>2310FE<br/>2310FE<br/>2310FE<br/>2310FE<br/>2310FE<br/>2310FE<br/>2310FE<br/>2310FE<br/>2310FE<br/>2310FE<br/>2310FE<br/>2310FE<br/>2310FE<br/>2310FE<br/>2310FE<br/>2310FE<br/>2310FE<br/>2310FE<br/>2310FE<br/>2310FE<br/>2310FE<br/>2310FE<br/>2310FE<br/>230FFE<br/>230FFE<br/>230FFE<br/>230FFE<br/>230FFE<br/>230FFE<br/>230FFE<br/>230FFE<br/>230FFE<br/>230FFE<br/>230FFE<br/>230FFE<br/>230FFE<br/>230FFE<br/>230FFE<br/>230FFE<br/>230FFE<br/>230FFE<br/>230FFE<br/>230FFE<br/>230FFE<br/>230FFE<br/>230FFE<br/>230FFE<br/>230FFE<br/>230FFE<br/>230FFE<br/>230FFE<br/>230FFE<br/>230FFE<br/>230FFE<br/>230FFE<br/>230FFE<br/>230FFE<br/>230FFE<br/>230FFE<br/>230FFE<br/>230FFE<br/>230FFE<br/>230FFE<br/>230FFE<br/>230FFE<br/>230FFE<br/>230FFE<br/>230FFE<br/>230FFE<br/>230FFE<br/>230FFE<br/>230FFE<br/>230FFE<br/>230FFE<br/>230FFE<br/>230FFE<br/>230FFE<br/>230FFE<br/>230FFE<br/>230FFE<br/>230FFE<br/>230FFE<br/>230FFE<br/>230FFE<br/>23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   | 1/2 Q 33/2<br>1/2 Q 33/2<br>1/2 Q 33/2<br>1/2 Q 33/2<br>1/2 Q 33/2<br>1/2 Q 33/2<br>1/2 Q 34/2<br>1/2 Q 34/2<br>0 293/5<br>Q 293/  | Γ       S <sup>+</sup> 2925-3275'       NR       S <sup>+</sup> 2940-3225'       4       1/2       3260'       2       7       0       1       7       0       1       1       1       1       1       1       1       1       2       1       1       1       2       1       1       2       2       1       2       1       2       2       1       2       2       1       2       2       1       2       2       1/2       2       2       1/2       2       2       1/2       2       2       1/2       2       2       1/2       2       2       1/2       2       2       1/2       2       2 </td <td></td> <td></td>   |                      |  |
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Stevens & Tull Inc. R-111-P Hearing Wellbore Schematic Salt Protection String in Place

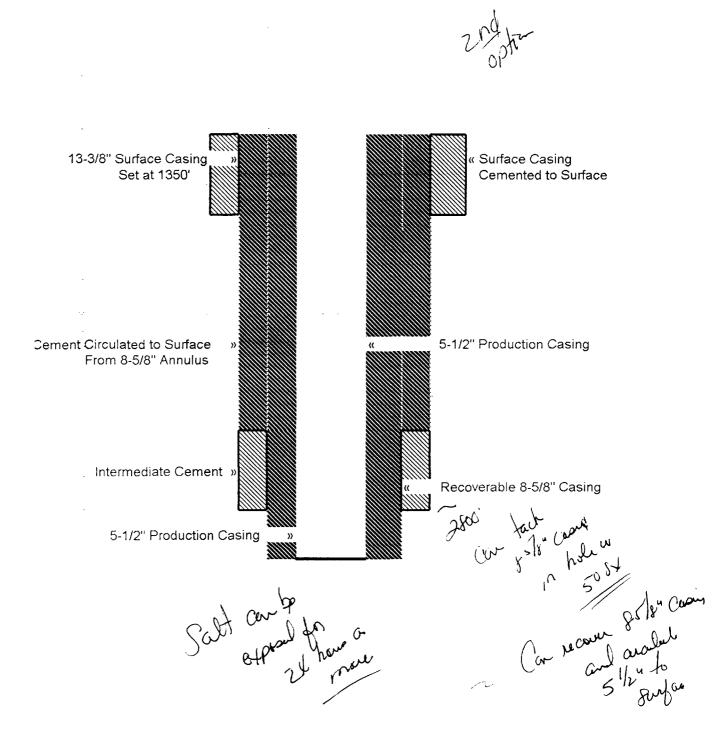


Stevens & Tull Inc.

## **R-111-P Hearing**

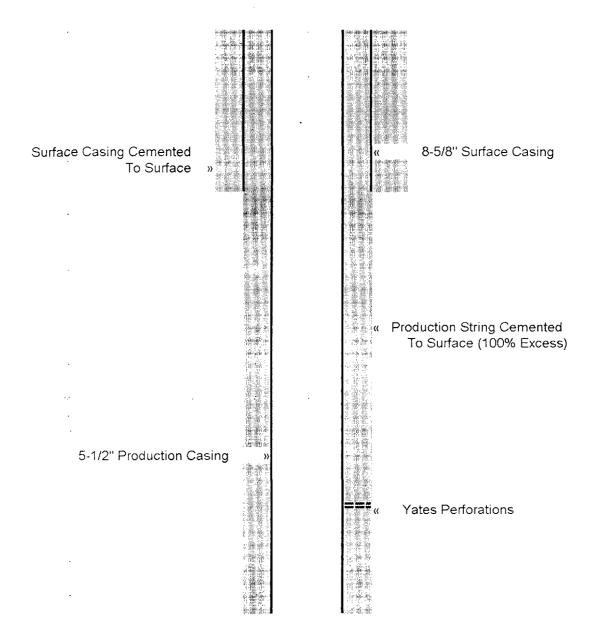
# Wellbore Schematic

## **Optional Casing Procedure**



# Stevens & Tull Inc. R-111-P Hearing Wellbore Schematic Recommendation by Stevens & Tull Inc.

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Stevens & Tull Inc.

# Well Plan

# West Teas Field

Lea County, New Mexico

**Prepared By:** 

Mula 1 A My maning

Michael G. Mooney

### DRILLING PROGNOSIS & PROCEDURE

#### West Teas Field

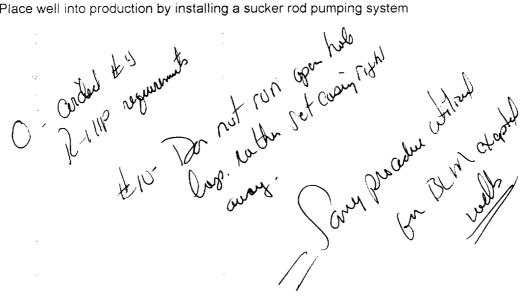
#### MIRU Drilling Rig 1

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- Drill 12-1/4" hole to a depth of approximately 1350' with fresh water mud
- Run 8-5/8" -24#, K55 Casing to surface TD
- Cement with adequate amounts of class "C" cement with 2% CaCl2 to circulate cement to surface
- Wait on cement for 12 hrs while pressure is being held on casing
- Start Nipple up of 3000 PSIG Blow out Preventer, Install H2S monitoring equipment
- Start drilling operations after cement has set for a total 24 hrs
- 8. Drill 7-7/8" hole to Total Depth estimated to be 3500' utilizing saturated 10 ppg brine water
- 9. Once Total Depth is obtained condition the hole for open hole logging by raising the viscosity of the mud system
- 10. Run open hole logs to determine the productivity of the well
- 11. If not productive plug and abandon as per NMOCD or BLM recommendations
- 12 If productive run 5-1/2" 15.5#,K55, LT&C casing to Total Depth
- Cement with adequate amounts of class "C" cement with flocelle and fluid loss additives to circulate the cement to surface.
- 14) Allow cement to set for 12 hrs before commencing rig down operations
- 15. Complete well as required
- 16. Place well into production by installing a sucker rod pumping system



### MUD PROGRAM

## WEST TEAS FIELD

Depth Interval (feet)	Density (PPG)	Funnel Viscosity (Seconds)	Type Mud	Filtrate (cc)
0-1350'	8.5	40-45	Spud Mud	NC
1350'-3500'	10.0	28	Saturated Brine Water	NC
3500'	10.0	35	Saturated Brine Water	10-15

#### CASING STRING DESIGN

 DEPTH:
 1350'

 TYPE:
 Surface

 SIZE:
 8-5/8''

 MUD WEIGHT:
 8.5

Description	Interval	Length Per Section	Weight Per Section	Cumm. Weight	Min. Strength	Tens. S.F.
24#,ST&C,K-55	0-1350'	1350'	32400#	32400#	263,000	8.12

Collaps Force	e *Resist	S.F.	Burst Force	Resist	S.F.	Minimum Torque	Optimum Torque	Maximum Torque
596	1370	2.29	624	2950	4.72	1970	2630	3290

\*Tension effect on collapse resistance included

#### Procedure:

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- 1. Clean threads on shoe joint, float collar, and guide shoe to bare shiny metal. Apply Thread Lock to connections prior to make-up.
- 2. The casing assembly will be made up as follows:

#### Note: Best-o-Life 2000 will be applied to all connections not receiving Thread Lock.

- a. Guide shoe
- b. Shoe Joint
- c. Float collar
- d. Remainder of casing string
- 3. Centralizers should be applied 10 feet above the guide shoe by means of a stop collar, around the first coupling above the float collar, and every fourth coupling back to surface.

#### CASING STRING DESIGN

 DEPTH:
 3500'

 TYPE:
 Production

 SIZE:
 5-1/2"

 MUD WEIGHT:
 10.0

Description	Interval	Length Per Section	Weight Per Section	Cumm. Weight	Min. Strength	Tens. S.F.
15.50#,ST&C,K-55	0-3500	3500'	54,250#	54,250#	222,000	4.09

Collaps Force	e Resist	S.F.	Burst Force	Resist	S.F.	Minimum Torque	Optimum Torque	Maximum Torque
1820	4040	2.22	1691	5320	3.14	1500	2000	2500
	17							

#### Procedure:

Make up and run 5 1/2" casing as per the following:

- A. Clean exposed threads on the guide shoe, first joint of 5 1/2" casing, float collar, and second joint of casing. Apply Thread Lock to these connections prior to make-up.
- B. The bottom assembly of the casing assembly must be made up as follows with the first listed being the first in the hole:

#### Note: Seal Lube will be applied to all connections not receiving Thread Lock.

- 1. Guide Shoe
- 2. First joint of 5 1/2" casing
- 3. Float collar
- 4. 5 1/2" casing back to 2950" with a rough coat bonding
- 5. 5 1/2" casing back to surface (sandblasted)
- 6. Rotate casing while cementing
- C. Install centralizers as follows on the 5 1/2" casing:
  - 1. 10' above the guide shoe by means of a stop collar
  - 2. Around the first coupling above the float collar
  - 3. Every third coupling back to surface

#### **CEMENTING PROGRAM**

#### 8-5/8" Surface Casing

Depth:1350'Casing Size:8-5/8''Hole Size:12.25''Calculated Cement Fill:1350'Excess Calculated:100%Cementing Company:Haliburton

#### Cement Recommendation:

Spacer: 20 Bbls Fresh Water

Slurry: 860 sack Premium Plus + 2% CaCl2

	Slurry Weight:	14.8 ppg
	Slurry Yeild:	1.34 cu.ft./sack

#### Procedure:

- 1. Utilize the two-plug system
- 2. Wait on cement a minimum of 12 hours (with pressure)
- 3. Wait on cement a minimum of 24 hours total before drill out

#### NOTE: VOLUME ADJUSTMENTS BASED ON THE CALIPER WILL BE UNATTAINABLE. THE STANDARD PRACTICE FOR SURFACE CASING CEMENT VOLUME DETERMINATION HAS BEEN CALCULATED (GAUGE HOLE PLUS 100% EXCESS). NO FURTHER CALCULATIONS WILL BE MADE FOR CEMENT VOLUME.

#### **CEMENTING PROGRAM**

#### 5-1/2" Production Casing

Depth:	3500
Casing Size:	5-1/2"
Hole Size:	7-7/8''
Calculated Cement Fill:	3500
Excess Calculated :	100%

#### Cement Recommendation:

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Lead Slurry:	650 sacks Premium Plus + 1%	5 CaCl2 + 15 #/sk Salt
	Slurry Weight: Slurry Yield:	14.0 ppg 1.75 cu.ft./sack
Tail Slurry:	230 sacks Premium Plus + .4%	% HALAD - 322 (fluid loss) + 2% CaCl2
	Slurry Weight: Slurry Yield:	14.8 ppg 1.32 cu.ft./sack

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## Procedure:

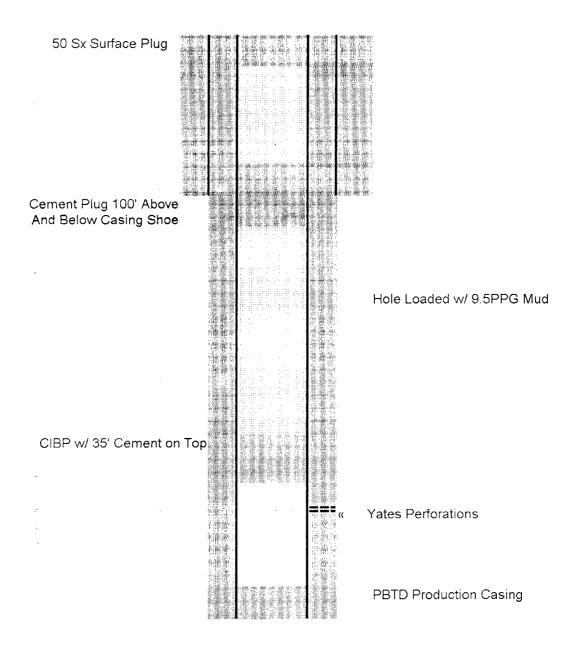
Cement the 5-1/2" casing string as follows:

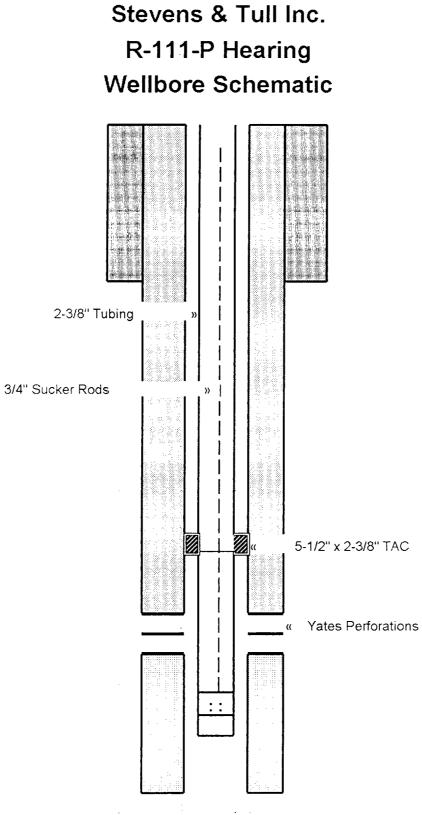
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1. Rotate casing during cementation

2. Wait on cement 12 hours before commencing rig operations

# Stevens & Tull Inc. R-111-P Hearing Wellbore Schematic Plug and Abandonment Procedure





# West Teas Rod Pump Setup

#### MINIMUM BLOWOUT PREVENTER REQUIREMENTS

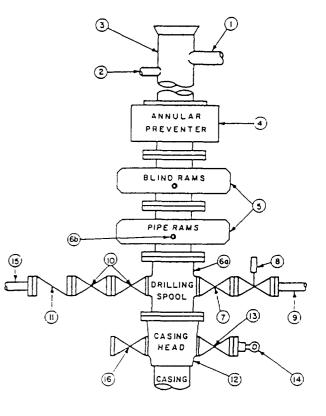
#### 3,000 psi Working Pressure

#### 3 MWP

#### STACK REQUIREMENTS

No.	ltern		Min. 1.D.	Min. Nominal
1	Flowline			
2	Fill up line			2*
3	Drilling nipple			
4	Annular preventer			
5	Two single or one dual hy operated rams	draulically		
6a	Drilling spool with 2" min. 3" min choke line outlets	kill line and		
6b	2" min. kill line and 3" mir outlets in ram. (Alternate t			
7	Valve 🧠	Gate 🗍 Plug 🗋	3-1/8″	• •
8	Gate valve-power operat	ed	3-1/8"	
9	Line to choke manifold			3″
10	Valves	Gate 🗌 Plug 🗋	2-1/16"	
11	Check valve		2-1/16"	
12	Casing head			
13	Valve	Gate I Plug I	1-13/16*	
14	Pressure gauge with need	e valve		
15	Kill line to rig mud pump m	anifold		2″





	OPTIONA	L	
16	Flanged valve	1-13/16"	_

CONTRACTOR'S OPTION TO FURNISH:

- All equipment and connections above bradenhead or casinghead. Working pressure of preventers to be 3.000 psi, minimum.
- Automatic accumulator (80 gallon, minimum) capable of closing BOP in 30 seconds or less and, holding them closed against full rated.working pressure.
- 3.BOP controls, to be located near drillers position.
- 4.Kelly equipped with Kelly cock.
- Inside blowout prevventer or its equivalent on derrick floor at all times with proper threads to fit pipe being used.
- 6.Kelly saver-sub equipped with rubber casing protector at all times.
- 7.Plug type blowout preventer tester.
- 8.Extra set pipe rams to fit drill pipe in use on location at all times.
- 9. Type RX ring gaskets in place of Type R.

#### MEC TO FURNISH: .

- 1.Bradenhead or casinghead and side valves.
- 2.Wear bushing, if required.

#### GENERAL NOTES:

- 1.Deviations from this drawing may be made only with the express permission of MEC's Drilling Manager.
- 2.All connections, valves, fittings, piping, etc., subject to well or pump pressure must be flanged (suitable clamp connections acceptable) and have minimum working pressure equal to rated working pressure of preventers up through choke. Valves must be full opening and suitable for high pressure mud service.
- 3.Controls to be of standard design and each marked, showing opening and closing position.
- 4.Chokes will be positioned so as not to hamper or delay changing of choke beans. Replaceable parts for adjustable choke, other bean sizes, retainers, and choke wrenches to be conveniently located for immediate use.
- All valves to be equipped with handwheels or handles ready for immediate use.
- 6.Choke lines must be suitably anchored.

- 7.Handwheels and extensions to be connected and ready for use.
- Valves adjacent to drilling spool to be kept open. Use outside valves except for emergency.
- 9.All seamless steel control piping (3000 psi working pressure) to have flexible joints to avoid stress. Hoses will be permitted.
- 10.Casinghead connections shall not be used except in case of emergency.
- 11.Do not use kill line for routine fill-up operations.

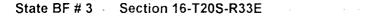
#### Stevens & Tull, Inc

#### R-111-P

#### Economic Differences Between Casing Designs

Stevens & Tull, Inc have drilled wells utilizing the R-111-P recommendation and the proposed Method omitting the salt string. Attached is an itemized detail summary showing the specifics. Below is a General Tabulation of the results:

#### PLEASE REVIEW ENCLOSED ATTACHMENTS



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	Total IDC 's Total Tang. Cost	\$ 156,406.58 \$  69,472.43		
	Total Cost of well	\$ 225,879.01		
		C	Payout of Investment Rate of Return	3.05 yrs 24.2%
Federal # 9-2	Section 9-T20S-R33E	pm 6,000 10	2,000	
	Total IDC 's Total Tang. Cost	\$ 105,393.82 \$ 56,866.36		
	Total Cost of well	\$ 162,266.18		
			Payout of Investment Rate of Return	2.08 yrs 39.1%

Drilling & Completion difference between using salt string and not is \$63,612.83

At \$ 15.00/ BBI of oil we need to recover an additional 4240 BBIs to payout the salt string

VEX.         VEX.00         DESCRIPTION         INTEREST 1/PE         GROUP         Construction           1/93PECT/DINCE COST		9999995 OFFICE COPY	ibodi			INVOICE DATE	10/31/92
1233FECT/0THER COST       103200050       13.175.73         1044       STEVENS & TULL, INC.       DSTLLINE DUERNED       1077-10721       100400050       1.814.77         10584       THE RESTERN COMPANY DE NO DECRETING       57/8"       .00000050       3.453.55         10777       THE RESTERN COMPANY DE NO DECRETING       57/8"       .00000050       3.453.55         10717       D. C. WELL SERVICE, INC.       COMPANY DE NO DECRETING       51/2"       .00000050       3.556.49         10717       D. C. WELL SERVICE, INC.       COMPANY DE NO DECRETING       51/2"       .00000060       3.556.49         10717       D. C. WELL SERVICE, INC.       COMPANY DE NA VITA       .00000060       3.77.7         10730       CASING FRUIT, INC.       DECUTY TRANS       .00000060       3.77.7         10740       BEANTLEY RECOMENT       .0000000       3.77.7       100.000000       3.77.0         10741       D. C. NELL SERVICE, INC.       EQUTY RENAL/TRUCKING       .00000000       3.77.0       .00000000       3.77.0         10742       STEVENS & TULL, INC.       EQUTY RENAL/TRUCKING       .00000000       3.7.05       .00000000       3.7.05         10743       STEVENS & TULL, INC.       EQUTY RENAL/TRUCKING       .00000000       37.05       <	PRPERTY	003615-02 FEDERAL 9 #2	- AFE Without	STATE: NM COUNTY:	LEA	PAGE	. 1
0/72         STEVENS & TULL_INC.         DOGGD063         13.275.83           7073         TUTAL FROSPECT/DINER COST         13.275.83           7074         STEVENS & TULL_INC.         DSTLING EVERNERA         10040060         1.814,77           7075         THE ASTERN COMPANY OF NO CENERING         6.378         COMMOND         5.453.55           7077         THE ASTERN COMPANY OF NO CENERING         6.122         .00400000         5.453.69           7072         THE ASTERN COMPANY OF NO CENERING         6.122         .00400000         5.453.69           7072         THE ASTERN COMPANY OF NO CENERING         6.00400000         5.453.69           7072         THE ASTERN COMPANY OF NO CENERING         0.00400000         3.473           7078         MEANLEY SUCCENN.         0.00400000         3.753.73           7078         FANTLY SUCCENN.         0.00400000         174.73           7078         FANTLY SUCCENN.         0.00400000         37.73           7078         FANTLY SUCCENN         .00400006         32.75           7183         FORMULT SUCCENNER         .00400000         37.73           7184         SEUFENS & TULL, INC.         EQUE FRANAL/TRUCKING         .00400000         37.73           7187         SEUFENS	EFERENCE	VENDOR	DESCRIPTION		INTEREST T/PE	6R066	YOUR SHARE
0/72         STEVENS & TULL_ INC.         DBSILING EVENDS         10000000         11,275,73           0/72         STEVENS & TULL_ INC.         DBSILING EVENDS         1027-10721         JOHADDOGO         1,814,77           0/74         STEVENS & TULL_ INC.         DBSILING EVENDS         1027-10721         JOHADDOGO         1,814,77           0/74         STEVENS & TULL_ INC.         DBSILING EVENDS         1027-10721         JOHADDOGO         1,814,77           0/74         STEVENS & TULL_ INC.         DBSILING EVENDS         1027-10721         JOHADDOGO         1,814,77           0/75         THE AUSTERN COMPANY OF AD CERENTING         10000000         3,563,497         10000000         3,563,497           0/75         CHALLEN SOPPLY CO., INC.         EQUIP AUTIATION NO         JOHADDOGO         223,757           0/76         RAATLEY TROCKING         JOHADDOGO         124,733         10000000         1,247,733           0/76         DEALEY TROCKING         JOHADDOGO         1,247,733         10000000         1,247,733           0/76         CERTIST ROUPANY CO., INC.         EQUIP RETAL/TROCKING         JOHADDOGO         1,247,733           0/76         CERTIST ROUPANY CO., INC.         EQUIP RETAL/TROCKING         JOHADDOGO         1,247,753           0/		· · · · · · · · · · · · · · · · · · ·					
TOTAL PROSPECT/OTHER COST         13.275.85           V/72         STEVENS & TULL, INC.         DELLING EVERNEAD         10/7-10/71         00-00100         1.834,77           V/72         STEVENS & TULL, INC.         DELLING EVERNEAD         10/7-10/71         .00-00100         1.834,77           V/72         STEVENS & TULL, INC.         DEMENTING         E 1/2*         .0000000         8.122,23           V/72         THE RESTERN COMPANY OF NO         DEMENTING         E 1/2*         .00000000         1.434,77           V/72         THE RESTERN COMPANY OF NO         DEMENTING         E 0/17         .00000000         1.434,77           V/74         D. C. WELL SERVICE, INC.         COMPLEXING         .00000000         1.434,73           V/74         MCCLATCHY RODS, INC.         EQUIF RENTAL/TRUCKING         .00000000         1.241,23           V/74         MEMORINE, INC.         EQUIF RENTAL/TRUCKING         .00000000         215,53         .00000000           V/7106         L. WELL SERVICE, INC.         EQUIF RENTAL/TRUCKING         .00000000         217,93         .00000000           V/7106         L. WELL SERVICE, INC.         EQUIF RENTAL/TRUCKING         .00000000         217,93         .00000000         217,93           V/7106         K WELL SERVICE, IN					00000000	(7 75 55	.00
NTRADELE COSTS         V72       STEVENS & TULL, INC.       DAILLING EVERHEAD       10/7-15/21       .0000000       1.814,77         SAME       THE RESIGNE COMPANY OF ND CEREKTING       B 3/8"       .1000000       s.153,55         SAME       THE RESIGNE COMPANY OF ND CEREKTING       S 1/2"       .0000000       s.152,23         SAME       D. C. WELL SERVICE, INC.       COMPLETION UNIT       .0000000       S.506,89         SAME       CARLEN ADRAS, INC.       COMPLETION UNIT       .0000000       S.506,89         SAME       CARLEN ADRAS, INC.       COMPLETION UNIT       .0000000       S.703,037         SAME       PARATERY FRUCKING       .00000000       S.703,035       .0000000       S.703,035         SAME       CARLEN ADRAS, INC.       EQUIF RENTAL/TRUCKING       .00000000       S.703,035       .00000000       S.703,035       .00000000       S.7		altarno a lorci inci	. ,	ICTAL PROSPECT/OTHER COST	1.00000000		.00
Y12       STEVENS & TULL, INC,       DEFLUENCE & TULL, INC,       DEFENSE & TULL						101200170	• • •
1584         THE RESIGN COMPANY OF NO CEMENTING         9 5/8         COMPANY OF NO CEMENTING         5 1/2"         COMPANY OF NO CEMENTING           773/0         C. KELL SERVIDERING         DSTULTING         DSTULTING         DSTULTING         DSTULTING           773/0         C. KELL SERVIDERING         DSTULTING         DSTULTING         DSTULTING         DSTULTING           773/0         C. KELL SERVIDERING         DSTULTING         DSTULTING         DSTULTING         DSTULTING           773/0         CLARLEN SUPPLICO.         DSTULTING         DSTULTING         DSTULTING         DSTULTING           750         LEARLEN SUPPLICO.         DSTUP RENTAL/TRUCKING         DSTUDING         DSTUDING         DSTUDING           760         LEARLEN SUPPLICO.         DSTUP RENTAL/TRUCKING         DSTUDING         DSTUDING         DSTUDING           781         POSEY FIES & LOULTMENT         EDUIP RENTAL/TRUCKING         DSTUDING         DSTUDING         DSTUDING         DSTUDING           72-105         D. C. WELL SERVICE, INC.         EDUIP RENTAL/TRUCKING         DSTUDING         DSTUDING         DSTUDING           72-105         D. C. WELL SERVICE, INC.         EDUIP RENTAL/TRUCKING         DSTUDING         DSTUDING         DSTUDING         DSTUDING         DSTUDING         DSTUDING <td>INTANGIBLE</td> <td>00513</td> <td></td> <td></td> <td></td> <td></td> <td></td>	INTANGIBLE	00513					
THE RESTERN COMPANY OF NO CERENTING         5 1/2"         98800000         6,122,23           T27107         CARFAR TRILLING         CONTRETING         5,12,23           T27107         CARFAR TRILLING         CONTRETING         5,12,23           544         MCCLATCHY BADS, INC.         COUF RENTAL/TRUCKING         0,000000         174,73           560         LEMALERS SUPUR CO., INC.         COUF RENTAL/TRUCKING         0,0000000         124,73           570         LEMALERS SUPUR CO., INC.         COUF RENTAL/TRUCKING         0,0000000         124,123           583         FORLUTF SURCENSE         EQUIF RENTAL/TRUCKING         0,0000000         1,55           570         SURFRENT         EQUIF RENTAL/TRUCKING         0,0000000         1,21,23           584         FORLUTF SURCENTSE         EQUIF RENTAL/TRUCKING         0,0000000         2,35,70           570         STEVENS & TULL, INC.         EQUIF RENTAL/TRUCKING         0,0000000         3,47,53           572-8         STEVENS & TULL, INC.         LABOR - ENSINEER         0,0000000         3,53,63           572-8         STEVENS & TULL, INC.         LABOR - ENSINEER         0,0000000         1,58,7           574         STEVENS & TULL, INC.         LABOR - FORENAN         0,0000000         1,51	792	STEVENS & TULL. INC.	DEILLING EVERHEAD	10/7-10/21	00000000	1,514.77	.00
45-167         D. C. WELL SERVICE. INC.         COMPLETION UNIT         0<000000         5,508,69           7239         CAPSTAR DRILLING         DRILLING         DRILLING         0<000000		THE WESTERN COMPANY OF NO	CEMENTING	8 5/8"	.0000000	5.453.55	, 00
0729       CAASTAG DRILLING       DRILLING       .0000000       T0.303.67         594       MCLLATCHY RADS., INC.       EGUIF RENTAL/TRUCKING       .0000000       174.73         594       LEWLLEN SUPPLY. TO., INC.       EGUIF RENTAL/TRUCKING       .0000000       23.77         086       BRANTLEY TRUCKING, INC.       EGUIF RENTAL/TRUCKING       .0000000       23.70         187       FCARLIFF ENTERPRISES       EGUIF RENTAL/TRUCKING       .0000000       23.70         188       FCARLIFF, INTERPRISES       EGUIF RENTAL/TRUCKING       .0000000       23.70         189       FOSEY FIPE & EQUIPMENT       EGUIF RENTAL/TRUCKING       .0000000       34.25         189       FOSEY FIPE & EQUIPMENT       EGUIF RENTAL/TRUCKING       .0000000       34.25         189       STEVENS & TULL, INC.       LABOR - ENGINEER       .0000000       34.25         189       STEVENS & TULL, INC.       LABOR - ENGINEER       .0000000       54.05         189       STEVENS & TULL, INC.       LABOR - ENGINEER       .0000000       15.97         180       STEVENS & TULL, INC.       LABOR - FORENAN       .0000000       16.09         181       STEVENS & TULL, INC.       LABOR - FORENAN       .00000000       16.199         181	.7372	THE WESTERN COMPANY OF NO	CEMENTING	5 1/2 <sup>#</sup>	,00000000	6.122.23	.00
MCCLATCHY BR0S., INC.         EQUIP RENTAL/TRUCKING         .00000000         174,73           750         LEWALLEN SUPPLY CO., INC.         EQUIP RENTAL/TRUCKING         .00000000         225,77           360         BARTLEY TRUCKING, INC.         EQUIP RENTAL/TRUCKING         .00000000         221,55           138         FORLLET SINERPRISES         EQUIP RENTAL/TRUCKING         .00000000         327,03           1.7         POSEY FIFE & EQUIP RENTAL/TRUCKING         .00000000         34,25         .           1.7         POSEY FIFE & EQUIP RENTAL/TRUCKING         .00000000         34,25         .           1.7         STEVENS & TULL, INC.         LABOR - ENGINEER         .00000000         34,25         .           1.7.1         STEVENS & TULL, INC.         LABOR - ENGINEER         .00000000         133,85         .           1.7.2         STEVENS & TULL, INC.         LABOR - ENGINEER         .00000000         .554,88         .           1.7.2         STEVENS & TULL, INC.         LABOR - FOREMAN         .00000000         .04,99           1.7.3         STEVENS & TULL, INC.         LABOR - FOREMAN         .00000000         .04,99           1.7.4         STEVENS & TULL, INC.         LABOR - FOREMAN         .000000000         .04,99	92-107	D. C. WELL SERVICE. INC.	COMPLETION UNIT		.0000000	3.508.69	.00
14         MCCLUICH BROS., INC.         EQUIP RENTAL/TRUCING         .0000000         174,73           190         LEVALLEN SUPPLY CO., INC.         EQUIP RENTAL/TRUCING         .0000000         225,77           193         FORKLETT BRUEPRISES         EQUIP RENTAL/TRUCING         .0000000         225,77           193         FORKLET BRUEPRISES         EQUIP RENTAL/TRUCING         .0000000         235,70           193         FORKLET BRUEPRISES         EQUIP RENTAL/TRUCING         .0000000         235,70           194         D. C. HELL SERVICE, INC.         EQUIP RENTAL/TRUCING         .0000000         247,93           195         FIFE & EQUIPMENT         EQUIP RENTAL/TRUCING         .0000000         247,93           197-8         STEVENS & TULL, INC.         LABCH - ENSINEER         .0000000         1330,65           197-2         STEVENS & TULL, INC.         LABCH - ENSINEER         .0000000         1330,65           197-3         STEVENS & TULL, INC.         LABCH - ENSINEER         .0000000         154,45           197-4         STEVENS & TULL, INC.         LABCH - ENSINEER         .0000000         154,46           197-4         STEVENS & TULL, INC.         LABCH - ENSINEER         .00000000         154,46           197-4         STEVENS & TULL,	0329	CAPSTAR DRILLING	DRILLING		.00000000		.00
590         LEWALLEN SUPPLY CD., INC.         SOUTA RENTAL/TRUCKING         .00000000         235,77           386         BRANTLEY TRUCKING, INC.         EQUIF RENTAL/TRUCKING         .00000000         1,241,23           387         GAVIETT INTERPISES         EQUIF RENTAL/TRUCKING         .00000000         357,03           7         POSEY FIFE & EQUIFRENT EQUIF RENTAL/TRUCKING         .00000000         347,03           7-7         POSEY FIFE & EQUIFRENT EQUIF RENTAL/TRUCKING         .00000000         347,03           7-7         STEVENS & TULL, INC.         EQUIF RENTAL/TRUCKING         .00000000         34,25           7-7-8         STEVENS & TULL, INC.         LABOR - ENGINEER         .00000000         1,330,45           7-7-2         STEVENS & TULL, INC.         LABOR - ENGINEER         .00000000         -15,87           7-4         STEVENS & TULL, INC.         LABOR - ENGINEER         .00000000         .594,48           7-5         STEVENS & TULL, INC.         LABOR - FOREMAN         .00000000         .104,07           7-4         STEVENS & TULL, INC.         LABOR - FOREMAN         .00000000         .104,07           7-5         STEVENS & TULL, INC.         LABOR - FOREMAN         .00000000         .104,07           7-4         STEVENS & TULL, INC.	904	MCCLATCHY BROS., INC.		·			, VQ
980         BRANTLEY TRUCKING, INC.         EQUIF RENTAL/TRUCKING         .00000000         1.241.23           193         FORTLETT ENTERPRISES         EQUIF RENTAL/TRUCKING         .00000000         201.55           97-100         D. O. NELL SERVICE, INC.         EQUIF RENTAL/TRUCKING         .00000000         235.70           97-104         D. O. NELL SERVICE, INC.         EQUIF RENTAL/TRUCKING         .00000000         235.70           97-105         STEVENS & TULL, INC.         EQUIF RENTAL/TRUCKING         .00000000         34.25           97-2         STEVENS & TULL, INC.         LABOR - ENGINEER         .00000000         133.65         .           97-2         STEVENS & TULL, INC.         LABOR - ENGINEER         .00000000         .554.83         .           97-3         STEVENS & TULL, INC.         LABOR - FOREMAN         .00000000         .554.83         .           97-47         STEVENS & TULL, INC.         LABOR - FOREMAN         .00000000         .04.09         .           97-17         STEVENS & TULL, INC.         LABOR - FOREMAN         .00000000         .04.09         .           97-17         STEVENS & TULL, INC.         LABOR - FOREMAN         .00000000         .04.09         .           97-17         STEVENS & TULL, INC.         LA	590						,00
133         FORKLIFT ENTERPRISES         EQUIP RENTAL/TRUCKING         00000000         337,03           72-106         D. C. WELL SERVICE. INC.         EQUIP RENTAL/TRUCKING         00000000         337,03           72-108         D. C. WELL SERVICE. INC.         EQUIP RENTAL/TRUCKING         00000000         347,03           72-70         STEVENS & TULL, INC.         LABGR - ENGINEER         00000000         34,25           72-75         STEVENS & TULL, INC.         LABGR - ENGINEER         00000000         1330,63           72-75         STEVENS & TULL, INC.         LABGR - ENGINEER         00000000         54,05           72-7         STEVENS & TULL, INC.         LABGR - ENGINEER         00000000         158,68           74-3         STEVENS & TULL, INC.         LABGR - ENGINEER         00000000         158,68           74-1         STEVENS & TULL, INC.         LABGR - FOREMAN         00000000         164,09           74-1         STEVENS & TULL, INC.         LABGR - FOREMAN         00000000         164,07           74-1         STEVENS & TULL, INC.         LABGR - FOREMAN         00000000         164,07           72-11         STEVENS & TULL, INC.         LABGR - FOREMAN         00000000         164,07           72-71         STEVENS & TULL, INC							.00
72-105       D. C. WELL SERVICE, INC.       EBUIP RENTAL/TRUCKING       .00000000       357.03         .7       POSEY FIRE & EBUIPMENT       EBUIF RENTAL/TRUCKING       .00000000       34.25         .7-76       STEVENS & TULL, INC.       LABOR - ENGINEEX       .00000000       34.25         .7-76       STEVENS & TULL, INC.       LABOR - ENGINEEX       .00000000       34.75         .7-75       STEVENS & TULL, INC.       LABOR - ENGINEEX       .00000000       54.05         .7-2       STEVENS & TULL, INC.       LABOR - ENGINEER       .00000000       .554.88         .7-3       STEVENS & TULL, INC.       LABOR - ENGINEER       .00000000       .554.88         .7-4       STEVENS & TULL, INC.       LABOR - FOREMAN       .00000000       .554.88         .7-5       STEVENS & TULL, INC.       LABOR - FOREMAN       .00000000       .554.88         .7-4       STEVENS & TULL, INC.       LABOR - FOREMAN       .00000000       .557.33         .7-4       STEVENS & TULL, INC.       LABOR - FOREMAN       .00000000       .557.33         .7-5       STEVENS & TULL, INC.       LABOR - FOREMAN       .00000000       .106.11         .7-74       STEVENS & TULL, INC.       LABOR - FOREMAN       .00000000       .116.31							.00
13         POSEY FIFE'S EQUIPHENT         EQUIP RENTAL/TRUCKING         06000006         235,70           52-7         STEVENS & TULL, INC.         EQUIP RENTAL/TRUCKING         06000000         34,25           52-78         STEVENS & TULL, INC.         LARCR - ENGINEER         .00000000         133,63           52-1         STEVENS & TULL, INC.         LARCR - ENGINEER         .0000000         133,63           52-2         STEVENS & TULL, INC.         LARCR - ENGINEER         .00000000         54,05           53-4         STEVENS & TULL, INC.         LARCR - ENGINEER         .00000000         3,594,68           54-7         STEVENS & TULL, INC.         LARCR - FORENAN         .00000000         3,594,68           52-47         STEVENS & TULL, INC.         LARCR - FORENAN         .00000000         104,09           52-47         STEVENS & TULL, INC.         LARCR - FORENAN         .00000000         104,09           52-47         STEVENS & TULL, INC.         LARCR - FORENAN         .00000000         104,09           52-47         STEVENS & TULL, INC.         LARCR - FORENAN         .00000000         104,09           52-47         STEVENS & TULL, INC.         LARCR - FORENAN         .00000000         104,09           52-47         STEVENS & TULL, INC. <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>.00</td>							.00
52-9         STEVENS & TULL, INC.         EBUIP RENTAL/TRUCYING         .00000000         34.25           727-76         STEVENS & TULL, INC.         LARGE - ENGINEER         .00000000         317.96           727-73         STEVENS & TULL, INC.         LARGE - ENGINEER         .00000000         1330.63           72-44         STEVENS & TULL, INC.         LARGE - ENGINEER         .00000000         54.05           72-3         STEVENS & TULL, INC.         LARGE - ENGINEER         .00000000         .5189           744         STEVENS & TULL, INC.         LARGE - ENGINEER         .00000000         .5189           745         STEVENS & TULL, INC.         LARGE - FORENAN         .00000000         .5189           747         STEVENS & TULL, INC.         LARGE - FORENAN         .00000000         .104.09           72-47         STEVENS & TULL, INC.         LARGE - FORENAN         .00000000         .104.09           72-77         STEVENS & TULL, INC.         LARGE - FORENAN         .00000000         .104.09           72-74         STEVENS & TULL, INC.         LARGE - FORENAN         .00000000         .104.09           72-74         STEVENS & TULL, INC.         LARGE - FORENAN         .00000000         .105.11           72-75         STEVENS & TULL, INC.		- · · ·					.00
22-76       STEVENS & TULL, INC.       LARCR - ENGINEER       .00000000       337,98         25-2       STEVENS & TULL, INC.       LARCR - ENGINEER       .00000000       1,330,63         72-4       STEVENS & TULL, INC.       LARCR - ENGINEER       .00000000       54,05         72-3       STEVENS & TULL, INC.       LARCR - ENGINEER       .00000000       1,530,63         74       STEVENS & TULL, INC.       LARCR - ENGINEER       .00000000       .164,09         74       STEVENS & TULL, INC.       LARCR - FOREMAN       .00000000       .104,09         72-11       STEVENS & TULL, INC.       LARCR - FOREMAN       .00000000       .104,09         72-47       STEVENS & TULL, INC.       LARCR - FOREMAN       .00000000       .104,09         72-11       STEVENS & TULL, INC.       LARCR - ROUSTAROUT       .00000000       .105,11         19/92       RANDY HALL, DSA POBGAR       LARCR - ROUSTAROUT       .00000000       .105,11         19/92       RANDY HALL, INC.       LARCR - ROUSTAROUT       .00000000       .137,79         11.4       RUTSENSTAL LINING       LARCR - ROUSTAROUT       .00000000       .51,73         12.4       RETSENS & LOCATION - CLERNUP       .00000000       .51,73         13.5       .0001							
STEVENS & TULL, INC.       LABGR - ENGINEER       .00000000       1.330,63         STEVENS & TULL, INC.       LABGR - ENGINEER       .00000000       54,05         STEVENS & TULL, INC.       LABGR - ENGINEER       .00000000       .594,68         STEVENS & TULL, INC.       LABGR - ENGINEER       .00000000       .594,68         STEVENS & TULL, INC.       LABGR - FOREMAN       .00000000       .594,68         STEVENS & TULL, INC.       LABGR - FOREMAN       .00000000       .04,09         STEVENS & TULL, INC.       LABGR - FOREMAN       .00000000       .04,09         STEVENS & TULL, INC.       LABGR - FOREMAN       .00000000       .04,09         STEVENS & TULL, INC.       LABGR - FOREMAN       .00000000       .0000000         STEVENS & TULL, INC.       LABGR - FOREMAN       .00000000       .01,10         STEVENS & TULL, INC.       LABGR - FOREMAN       .00000000       .01,23         STEVENS & TULL, INC.       LABGR - FOREMAN       .00000000       .01,23         STEVENS & TULL, INC.       LABGR - FOREMAN       .00000000       .01,23         STEVENS & TULL, INC.       LABGR - FOREMAN       .00000000       .01,23         STEVENS & TULL, INC.       LABGR - FOREMAN       .00000000       .01,23         STEVENS &							.90
72-44       STEVENS & TULL.INC.       LABOR - ENGINEER       .0000000       54.05         77-2       STEVENS & TULL, INC.       LABOR - ENGINEER       CORR.N.K. TA1       .0000000       -15.87         34       STEVENS & TULL, INC.       LABOR - ENGINEER       CORR.N.K. TA1       .0000000       3.574.88         74       STEVENS & TULL, INC.       LABOR - ENGINEER       .0000000       3.574.88       .         75-7       STEVENS & TULL, INC.       LABOR - FOREMAN       .00000000       104.09       .         72-47       STEVENS & TULL, INC.       LABOR - FOREMAN       .00000000       104.09       .         72-47       STEVENS & TULL, INC.       LABOR - FOREMAN       .00000000       401.23       .         72-47       STEVENS & TULL, INC.       LABOR - FOREMAN       .00000000       401.23       .         714       RCN'S KELDING, INC.       LABOR - ROUSTABOUT       .00000000       561.73       .         714       STEVENS & TULL, INC.       LABOR - ROUSTABOUT       .00000000       561.73       .         714       ERNISTENTENTERFESTS       LOCATION - SUBADOUT       .00000000       561.73       .         714       ENVERFE A TULLINC.       LABOR - ROUSTABOUT       .00000000       551.13       <	-	-					.00
****-2       STEVENS & TULL, INC.       LABOR - ENGINEER       CORR. N.M. TA4       .00000000       -15.89         34       STEVENS & TULL, INC.       LABOR - ENGINEER       .00000000       3.594.88         72*57       STEVENS & TULL, INC.       LABOR - FOREMAN       .00000000       104.09         72*11       STEVENS & TULL, INC.       LABOR - FOREMAN       .00000000       104.09         72*17       STEVENS & TULL, INC.       LABOR - FOREMAN       .00000000       401.23         72*17       STEVENS & TULL, INC.       LABOR - FOREMAN       .00000000       401.23         72*17       STEVENS & TULL, INC.       LABOR - FOREMAN       .00000000       401.23         71 **       J. H. LINDSEY       LABOR - ROUSTABOUT       .00000000       561.73         71 **       J. H. LINDSEY       LABOR - ROUSTABOUT       .00000000       591.24         72*2       STEVENS & TULL, INC.       LABOR - ROUSTABOUT       .00000000       151.13         72*47       STEVENS & TULL, INC.       LABOR - ROUSTABOUT       .00000000       151.13         72*2       STEVENS & TULL, INC.       LABOR - ROUSTABOUT       .00000000       151.13         72*47       STEVENS & TULL, INC.       LABOR - ROUSTABOUT       .00000000       151.13 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>.00</td>							.00
34         STEVENS & TULL, INC.         LABOR - ENGINEER         .00000000         3,554,68         .           V2-67         STEVENS & TULL, INC.         LABOR - FOREMAN         .00000000         104.09         .           V2-11         STEVENS & TULL, INC.         LABOR - FOREMAN         .00000000         104.09         .           V2-11         STEVENS & TULL, INC.         LABOR - FOREMAN         .00000000         104.09         .           V2-17         STEVENS & TULL, INC.         LABOR - FOREMAN         .00000000         1.05.11         .           V1972         RANDY HALL, D& PDGAR         LABOR - EQUSTABOUT         .00000000         401.23         .           V1 -         J. H. LINDSEY         LABOR - ROUSTABOUT         .00000000         561.73         .           V1 -         J. H. LINDSEY         LABOR - ROUSTABOUT         .00000000         561.73         .           V2-62         STEVENS & TULL, INC         LABOR - ROUSTABOUT         .00000000         561.73         .           V2-62         STEVENS & TULL, INC         LABOR - ROUSTABOUT         .00000000         151.13         .           V2-62         STEVENS & TULL, INC - LABOR - ROUSTABOUT         .00000000         151.13         .           V2-62         SU							.0)
M2-67         STEVENS & TULL, INC.         LABCR - FOREMAN         .0000000         104.09         .           V2-11         STEVENS & TULL, INC.         LABOR - FOREMAN         .0000000         104.09         .           V2-11         STEVENS & TULL, INC.         LABOR - FOREMAN         .0000000         104.09         .           V2-47         STEVENS & TULL, INC.         LABOR - FOREMAN         .0000000         104.07         .           V19/72         RANDY HALL, DBA POGAR         LABOR - GEOLOGIST         .00000000         401.23         .           V14         RCM'S MELDING, INC.         LABOR - ROUSTABOUT         .00000000         561.73         .           V14         RCHIDE X & TULL, INC.         LABOR - ROUSTABOUT         .00000000         561.73         .           V14         RCHIDE X & TULL, INC.         LABOR - ROUSTABOUT         .00000000         561.73         .           V14         REVENS & TULL, INC.         LABOR - ROUSTABOUT         .00000000         151.13         .           V14         ERREVENS & TULL, INC.         LABOR - ROUSTABOUT         .00000000         151.13         .           V14         ERREVENS & TULL, INC.         LABOR - ROUSTABOUT         .00000000         151.13         .           V1	-			LUKR. M.B. IEX			• )0
Y2-11       STEVENS & TULL, INC.       LABOR - FOREMAN       .00000000       104,09       .         Y2-47       STEVENS & TULL, INC.       LABOR - FOREMAN       .00000000       1.105.11       .         Y19/92       RANDY HALL, DBA FOGAR       LABOR - FOREMAN       .00000000       401.23       .         Y14       RCN'S WELDING, INC.       LABOR - ROUSTABOUT       .00000000       401.23       .         Y14       N. LINDSEY       LABOR - ROUSTABOUT       .00000000       561.73       .         Y15-02       STEVENS & TULL, INC.       LABOR - ROUSTABOUT       .00000000       561.73       .         Y2-02       STEVENS & TULL, INC.       LABOR - ROUSTABOUT       .00000000       391.24       .         Y2-02       STEVENS & TULL, INC.       LABOR - ROUSTABOUT       .00000000       151.15       .         Y2-02       STEVENS NUCLION COMPAN       LOCATION - ROADS, PITS       .00000000       11.005.93       .         Y2-024       GLOBE CONSTRUCTION COMPAN       LOCATION - SOADS, PITS       .00000000       154.13       .         Y2-032       HOBBS ANCHOR, INC.       LOCATION - SOADS, PITS       .00000000       154.13       .         Y2-055       SLOSE CONSTRUCTION COMPAN       LOCATION - SURVEY       .0							.00
72-47       STEVENS & TULL, INC.       LABOR - FOREMAN       .00000000       1.105.11       .         /19/92       RANDY HALL, DBA PDGAR       LABOR - GEDLOGIST       .00000000       401.23       .         14       RCM'S WELDING, INC.       LABOR - ROUSTABOUT       .00000000       531.73       .         71       J. H., LINDEY       LABOR - ROUSTABOUT       .00000000       531.73       .         72-62       STEVENS & TULL, INC.       LABOR - ROUSTABOUT       .00000000       391.24       .         .54       FERLIFT ENTERPRISES       LOCATION - CLEANUP		•					.00
/19/92       RANDY HALL, DBÅ POGAR       LABOR - GEDLOGIST       .3000000       401.23       .         /14       RGN'S WELDING, INC.       LABOR - ROUSTABOUT       .0000000       561.73       .         /1.*       J. H. LINDSEY       LABOR - ROUSTABOUT       .0000000       391.24       .         /2.*       J. H. LINDSEY       LABOR - ROUSTABOUT       .0000000       391.24       .         /2.*       J. H. LINDSEY       LABOR - ROUSTABOUT       .0000000       391.24       .         /2.*       J. H. LINDSEY       LABOR - ROUSTABOUT       .0000000       391.24       .         /2.*       STEVENS & TULL, INE.       LABOR - ROUSTABOUT       .0000000       151.13       .         /2.*       STEVENS & TULL, INE.       LABOR - ROUSTABOUT       .0000000       151.13       .         /2.*       STEVENS & TULL, INE.       LABOR - ROUSTABOUT       .0000000       151.13       .         /2.*       STEVENS & TULL, INE.       LABOR - ROUSTABOUT       .0000000       151.13       .         /2.*       GLOBE CONSTRUCTION COMPAN       LOCATION - ROADS, PITS       .00000000       164.13       .         /2.*       GLOBE CONSTRUCTION COMPAN       LOCATION - SURVEY       .00000000       2.541.54 <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td>.00</td></t<>							.00
014       RCN'S WELDING, INC.       LABOR - ROUSTABOUT       .00000000       137,50         011.*       J. H. LINDBEY       LABOR - ROUSTABOUT       .00000000       561,73         012.*       J. H. LINDBEY       LABOR - ROUSTABOUT       .00000000       391,24         02.*02       STEVENS & TULL, INE.       LABOR - ROUSTABOUT       .00000000       391,24         0.*14       ENVIAOMMENTAL LINING SERV       LOCATION - CLEANUP       .10000000       151,13         0.*14       ENVIAOMMENTAL LINING SERV       LOCATION - ROADS, PITS       .00000000       150,93         0.*14       ENVIAOMMENTAL LINING SERV       LOCATION - ROADS, PITS       .00000000       11,05,93         0.*14       ENVIAOMMENTAL LINING SERV       LOCATION - ROADS, PITS       .00000000       144,13         0.*204       GLOBE CONSTRUCTION COMPAN       LOCATION - ROADS, PITS       .00000000       164,13         0.*205       GLOSE CONSTRUCTION COMPAN       LOCATION - SURVEY       .00000000       154,15         14       GASKIN       LOCATION - SURVEY       .00000000       2.541,54         15       MCHEESE LOGGING SERVICE I       LOGGING - MUD       .00000000       2.541,54         16       GASKIN       LOCATION - SURVEY       .00000000       2.541,54		•					.00
71 **       J. H. LINDSEY       LABGR - ROUSTABOUT       .00000000       \$61.73       .         72 **       J. H. LINDSEY       LABGR - ROUSTABOUT       .00000000       371.24       .         72 **       STEVENS & TULL, INC.       LABGR - ROUSTABOUT       .00000000       371.24       .         154       FCR)LIFT ENTERPRISES       LOCATION - CLEANUP       .00000000       151.13       .         5-114       ENVIAONMENTAL LINING SERV       LOCATION - ROADS, PITS       .00000000       11.095.93       .         5-114       ENVIAONMENTAL LINING SERV       LOCATION - ROADS, PITS       .00000000       11.095.93       .         6-24       SLOSE CONSTRUCTION COMPAN       LOCATION - ROADS, PITS       .00000000       164.13       .         70-045       GLOSE CONSTRUCTION COMPAN       LOCATION - ROADS, PITS       .00000000       154.13       .         714       GASKIN       LOCATION - SURVEY       .00000000       154.13       .         714       GASKIN       LOCATION - SURVEY       .00000000       156.65       .         72       MENEESE LOGGING SERVICE I       LOGGING - XUD       .00000000       2.541.54       .         792ST       NEW MEXICO ARCHAEOLOSICAL       MISCELLANEDUS       .00000000							.)0
P2-62       STEVENS & TULL, INC.       LABOR - ROUSTABOUT       .00000000       391.24       .         134       FCR)LIFT ENTERPRISES       LOCATION - CLEANUP       .0000000       151.13       .         5-114       ENVIRONMENTAL LINING SERV       LOCATION - CLEANUP       .0000000       11.035.93       .         5-114       ENVIRONMENTAL LINING SERV       LOCATION - ROADS, PITS       .0000000       11.035.93       .         5-114       ENVIRONMENTAL LINING SERV       LOCATION - ROADS, PITS       .0000000       11.035.93       .         1032       HOBBS ANCHOR, INC.       LOCATION - SDADS, PITS       .00000000       635.39       .         1032       HOBBS ANCHOR, INC.       LOCATION - SDADS, PITS       .00000000       .64.13       .         1032       HOBBS ANCHOR, INC.       LOCATION - SURVEY       .00000000       .552.25       .         1034       GASKIN       LOCATION - SURVEY       .00000000       2.541.54       .         1054       MILECELLOGGING SERVICE I       LOGEING - MUD       .00000000       2.541.54       .         1057       REYNOLDS BROS. REPRODUCTI       NISCELLANEDUS       .00000000       2.75.85       .         1058       CAPITAN CORPORATION       PERFORATING       .0000000							,00
134       FCR)LIFT ENTERPAISES       LOCATION - CLEANUP       .0000000       151.13       .         5-114       ENVIRONMENTAL LINING SERV       LOCATION - ROADS, PITS       .0000000       11.005.93       .         70-024       GLOBE CONSTRUCTION COMPAN       LOCATION - ROADS, PITS       .0000000       11.005.93       .         1032       HOBBS ANCHOR, INC.       LOCATION - ROADS, PITS       .0000000       635.35       .         1032       HOBBS ANCHOR, INC.       LOCATION - ROADS, PITS       .0000000       .       .         1032       HOBBS ANCHOR, INC.       LOCATION - ROADS, PITS       .0000000       .       .         1032       HOBBS ANCHOR, INC.       LOCATION - ROADS, PITS       .0000000       .       .         1032       HOBBS ANCHOR, INC.       LOCATION - ROADS, PITS       .0000000       .       .         1041       GASKIN       LOCATION - SURVEY       .00000000       .       .       .         1052       Manteese LOGGING SERVICE I       LOGENG - MUD       .00000000       2.541.54       .         1052       Manteese LOGGING SERVICE I       LOGENG - MUD       .00000000       2.541.54       .         1053       NEW MEXICO ARCHAEDLOBICAL       MISCELLANEOUS       .00000000 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>,00</td>							,00
9-114       ENVIAONMENTAL LINING SERV       LOCATION - ROADS, PITS       .00000000       £12.98       .         VC-024       GLOBE CONSTRUCTION COMPAN       LOCATION - ROADS, PITS       .00000000       635.35       .         VC-025       GLOBE CONSTRUCTION COMPAN       LOCATION - SOADS, PITS       SET ANCHORS       .00000000       635.35       .         VC-026       GLOBE CONSTRUCTION COMPAN       LOCATION - SOADS, PITS       SET ANCHORS       .00000000       635.35       .         VC-025       GLOBE CONSTRUCTION COMPAN       LOCATION - SOADS, PITS       .00000000       154.13       .         VC-026       GLOBE CONSTRUCTION COMPAN       LOCATION - SURVEY       .00000000       154.13       .         V11       GASKIN       LOCATION - SURVEY       .000000000       155.65       .       .         V27       SASYIN       LOCATION - SURVEY       .000000000       2.541.54       .       .         V27       REYNOLDS BROS, REPRODUCT I       MISCELLANEOUS       .00000000       2.75.86       .         V27       REYNOLDS BROS, REPRODUCT I       MISCELLANEOUS       .00000000       2.834.89       .         V27       REYNOLDS BROS, REPRODUCT I       MISCELLANEOUS       .000000000       2.834.89       .      <		STEVENS & TULL, INC.	LABOR - ROUSTABOUT		.00000000	391.24	.00
VC-024       GLOBE CONSTRUCTION COMPAN LECATION - READS. PITS       .00000000       11.005.93       .         032       HOBBS ANCHOR, INC.       LECATION - SEADS. PITS       SET ANCHORS       .00000000       635.35       .         032       HOBBS ANCHOR, INC.       LECATION - SEADS. PITS       SET ANCHORS       .00000000       635.35       .         032       HOBBS ANCHOR, INC.       LECATION - SEADS. PITS       .00000000       154.13       .         034       GASKIN       LECATION - SURVEY       .00000000       154.65       .         035       MCNEESE LOGGING SERVICE I       LECATION - SURVEY       .00000000       2.541.54       .         037       SASKIN       LECATION - SURVEY       .00000000       2.541.54       .         037       NEW MEXICO ARCHAEOLOGICAL       MISCELLANEOUS       .00000000       2.541.54       .         038       NEW MEXICO ARCHAEOLOGICAL       MISCELLANEOUS       .00000000       2.75.86       .         039       REYNOLDS BROS. REPRODUCTI       MISCELLANEOUS       .00000000       2.834.89       .         038       HORIJON MUD COMPANY       MUD & CHENICALS       .00000000       2.834.89       .         038       CAPITAN CORPORATION       PERFORATING       .	.84	FCRILIFT ENTERPHISES	LOCATION - CLEANUP	· .	.0000000	151.13	.00
1032       HOBBS ANCHOR, INC.       LOCATION - SDADS. PITS       SET ANCHORS       .00000000       635.35       .         12-065       BLOSE CONSTRUCTION CEMPAN       LOCATION - ROADS. PITS       .00000000       154.13       .         141       GASKIN       LOCATION - SURVEY       .00000000       552.25       .         57       GASKIN       LOCATION - SURVEY       .00000000       156.65       .         52       MCHESE LOGGING SERVICE I       LOGGING - MUD       .00000000       2.541.54       .         57       SASKIN       LOCATION - SURVEY       .00000000       2.541.54       .         52       MCHESE LOGGING SERVICE I       LOGGING - MUD       .00000000       2.541.54       .         52       REYNOLDS BROS. REPRODUCTI       MISCELLANEOUS       .00000000       275.86       .         527       REYNOLDS BROS. REPRODUCTI       MISCELLANEOUS       .00000000       2.334.89       .         538       CAPITAN CORPORATION       PERFORATING       .00000000       2.334.89       .         538       CAPITAN CORPORATION       PERFORATING       .00000000       2.17.70       .         54020K       MICHAEL G. MOONEY       INAVEL EXPENSE & MILEAGE       .00000000       1.10 <t< td=""><td>5-114</td><td>ENVIRONMENTAL LINING SERV</td><td>LOCATION - ROADS, PITS</td><td></td><td>.30000000</td><td>612.93</td><td>.00</td></t<>	5-114	ENVIRONMENTAL LINING SERV	LOCATION - ROADS, PITS		.30000000	612.93	.00
N2-065       GLOBE CONSTRUCTION COMPAN LOCATION - ROADS, PITS       .00000000       154.13       .         41       GASKIN       LOCATION - SURVEY       .00000000       552.25       .         59       SASKIN       LOCATION - SURVEY       .00000000       156.65       .         52       MCHEESE LOGGING SERVICE I       LOGGING - MUD       .00000000       2.341.54       .         52       MCHEESE LOGGING SERVICE I       LOGGING - MUD       .00000000       2.75.86       .         52       REYNOLDS BROS, REPRODUCTI       MISCELLANEOUS       .00000000       275.86       .         52       REYNOLDS BROS, REPRODUCTI       MISCELLANEOUS       .00000000       2.834.89       .         53       CAPITAN CORPORATION       FERFORATING       .00000000       2.834.89       .         53       CAPITAN CORPORATION       FERFORATING       .00000000       1.735.35       .         57.6       A. A. DILFIELD SERVICE       JASTE WATER / MUD DISPOSA       .00000000       2.1.70       .         57.6       A. A. DILFIELD SERVICE       JASTE WATER / MUD DISPOSA       .00000000       2.1.0       .         57.6       A. A. DILFIELD SERVICE       JASTE WATER / MUD DISPOSA       .00000000       2.1.0       .	92-024	GLOBE CONSTRUCTION COMPAN	LOCATION - ROADS, PITS		,00000000	11,695.93	.96
41       GASKIN       LOCATION - SURVEY       .00000000       552.25       .         59       SASKIN       LOCATION - SURVEY       .00000000       156.65       .         52       MENEESE LOGGING SERVICE I LOGGING - MUD       .00000000       2.841.54       .         7/92ST       NEW MEXICO ARCHAEOLOGICAL       MISCELLANEOUS       .00000000       275.86       .         52.7       REYNOLDS BROS, REPRODUCTI       MISCELLANEOUS       .00000000       89.19       .         538       HORIZON MUD COMPANY       MUD & CHENICALS       .00000000       2.834.89       .         538       CAPITAN CORPORATION       FERFORATING       .00000000       1.735.35       .         576       A. A. OILFIELD SERVICE       JASTE WATER / MUD DISPOSA       .00000000       2.10       .         7020k       MICHAEL G. MOONEY       IKAVEL EXPENSE & MILEAGE       .00000000       1.10       .         713/92       RANDY JALL, DBA POGAR       ISAVEL EXPENSE & MILEAGE       .00000000       140.79       .         5600k       MICHAEL G. MOONEY       IKAVEL EXPENSE & MILEAGE       .00000000       41.70       .	1032	HOBBS ANCHOR, INC.	LOCATION - SDADS, PITS	SET ANCHORS	,00000000	635.39	.00
57         SASKIN         LOCATION - SURVEY         .00000000         156.65         .           52         MCNEESE LOGGING SERVICE I LOGGING - MUD         .00000000         2.541.54         .           7/92ST         NEW MEXICO ARCHAEOLOGICAL         MISCELLANEOUS         .00000000         275.86         .           527         REYNOLDS BROS. REPRODUCTI         MISCELLANEOUS         .00000000         89.19         .           538         CAPITAN CORPORATION         PERFORATING         .00000000         2.834.89         .           538         CAPITAN CORPORATION         PERFORATING         .00000000         1.735.35         .           576         A. A. OILFIELD SERVICE         JASTE WATER / MUD DISPOSA         .00000000         2.10         .           576         MICHAEL G. MOONEY         IKAVEL EXPENSE & MILEAGE         .00000000         1.10         .           576         A. A. OILFIELD SERVICE         JASTE WATER / MUD DISPOSA         .00000000         2.10         .           576         A. A. OILFIELD SERVICE         JASTE WATER / MUD DISPOSA         .00000000         2.10         .           576         A. A. OONEY         IKAVEL EXPENSE & MILEAGE         .00000000         1.10         .           579         FAN	92-065	GLOSE CONSTRUCTION COMPAN	LOCATION - ROADS, PITS		.0000000	164.13	.30
122         MCHEESE LOGGING SERVICE I LOGGING - MUD         .00000000         2.541.54         .           7/92ST         NEW MEXICO ARCHAEOLOGICAL MISCELLANEOUS         .00000000         275.85         .           529         REYNOLDS BROS. REPRODUCTI MISCELLANEOUS         .00000000         89.19         .           330         HORIZON MUD COMPANY         MUD & CHEMICALS         .00000000         2.834.89         .           538         CAPITAN CORPORATION         PERFORATING         .00000000         1.735.35         .           578         A. A. CILFIELD SERVICE         JASTE WATER / MUD DISPOSA         .00000000         2.10         .           576         MICHAEL G. MOONEY         INAVEL EXPENSE & MILEAGE         .00000000         1.10         .           577         WICHAEL G. MOONEY         TRAVEL EXPENSE & MILEAGE         .00000000         1.40.79         .	41	GASKIN -	LOCATION - SURVEY		.0000000	552.25	.00
H/72ST         NEW MEXICO ARCHAEOLOGICAL         MISCELLANEOUS         .00000000         275.85         .           529         REYNOLDS BROS.         REPRODUCTI         MISCELLANEOUS         .00000000         89.19         .           538         HORIZON MUD COMPANY         MUD & CHENICALS         .00000000         2.834.89         .           538         CAPITAN CORPORATION         PERFORATING         .00000000         1.735.35         .           5375         A. A. OILFIELD SERVICE         JASTE WATER / MUD DISPOSA         .00000000         221.70         .           5020K         MICHAEL G.         MOONEY         IRAVEL EXPENSE & MILEAGE         .00000000         140.79         .           5000K         MICHAEL G.         MOONEY         IRAVEL EXPENSE & MILEAGE         .00000000         41.90         <	19	SASXIN	LOCATION - SURVEY		,00000000	155.65	.00
P/72ST         NEW MEXICO ARCHAEOLOGICAL         NISCELLANEOUS         .00000000         275.85         .           529         REYNOLDS BROS.         REPRODUCTI         MISCELLANEOUS         .00000000         89.19         .           538         HORIZON MUD COMPANY         MUD & CHENICALS         .00000000         2.834.89         .           538         CAPITAN CORPORATION         PERFORATING         .00000000         1.735.35         .           538         CAPITAN CORPORATION         PERFORATING         .00000000         1.735.35         .           538         CAPITAN CORPORATION         PERFORATING         .00000000         1.735.35         .           5375         A. A. DILFIELD SERVICE         JASTE WATER / MUD DISPOSA         .00000000         221.70         .           5476         MICHAEL G. MOONEY         IRAVEL EXPENSE & MILEAGE         .00000000         1.10         .           5570         MICHAEL G. MOONEY         TRAVEL EXPENSE & MILEAGE         .00000000         140.79         .	52	MENEESE LOGGING SERVICE I	LOGGING - MUD		,00000000	2.841.54	.00
529         REYNOLDS BROS. REPRODUCTI MISCELLANEOUS         .00000000         89.19         .           38         HORIZON MUD COMPANY         MUD & CHENICALS         .00000000         2.834.89         .           58         CAPITAN CORPORATION         PERFORATING         .00000000         1.735.35         .           57.6         A. A. OILFIELD SERVICE         JASTE WATER / MUD DISPOSA         .00000000         2.17.70         .           57.20X         MICHAEL G. MOONEY         IRAVEL EXPENSE & MILEAGE         .00000000         3.10         .           57.00X         MICHAEL G. MOONEY         TRAVEL EXPENSE & MILEAGE         .00000000         140.79         .           58.00X         MICHAEL G. MOONEY         TRAVEL EXPENSE & MILEAGE         .00000000         140.79         .	7/92ST	NEW MEXICO ARCHAEOLOGICAL	MISCELLANEOUS		.00000000	275.86	.00
38         HORIION MUD COMPANY         MUD & CHEMICALS         .00000000         2.834.89         .           58         CAPITAN CORPORATION         PERFORATING         .00000000         1.735.35         .           575         A. A. GILFIELD SERVICE         JASTE WATER / MUD DISPOSA         .00000000         2.10         .           5020K         MICHAEL G. MOONEY         TRAVEL EXPENSE & MILEAGE         .00000000         3.10         .           5000K         MICHAEL G. MOONEY         TRAVEL EXPENSE & MILEAGE         .00000000         140.79         .           5000K         MICHAEL G. MOONEY         TRAVEL EXPENSE & MILEAGE         .00000000         141.90         .		-					.00
S8         CAPITAN CORPORATION         PERFORATING         .0000000         1.735.35         .           575         A. A. DILFIELD SERVICE         JASTE WATER / MUD DISPOSA         .00000000         221.70         .           576         MICHAEL G. MOONEY         TRAVEL EXPENSE & MILEAGE         .00000000         3.10         .           577         MICHAEL G. MOONEY         TRAVEL EXPENSE & MILEAGE         .00000000         3.10         .           577         MICHAEL G. MOONEY         TRAVEL EXPENSE & MILEAGE         .00000000         140.79         .           577         MICHAEL G. MOONEY         TRAVEL EXPENSE & MILEAGE         .00000000         140.79         .							,00
576       A. OILFIELD SERVICE       JASTE WATER / MUD DISPOSA       .00000000       221.70       .0         7620x       MICHAEL G. MOONEY       TRAVEL EXPENSE & MILEAGE       .00000000       3.10       .0         117/92       RANDY JALL. DBA POGAR       TRAVEL EXPENSE & MILEAGE       .00000000       140.99       .0         1000k       MICHAEL G. MOONEY       TRAVEL EXPENSE & MILEAGE       .00000000       140.99       .0		-					ុំរស្
002DK MICHAEL G. MOONEY TRAVEL EXPENSE & MILEÁGE .00000000 0.10 .0 19792 Randy Aall. DBA pogar travel expense & Mileage .00000000 140.99 .0 000K Michael G. Mooney travel expense & Mileage .00000000 41.90 .0				14			, ()()
19/92 RANDY MALL, DBA POGAR TRAVEL EXPENSE & NILEAGE .000000000 140.99 . Gook Michael G. Mooney travel expense & Mileage .00000000 41.90 .00000000000 140.90							Ú.
BOOK MICHAEL G. MOONEY TRAVEL EXPENSE & MILEAGE .00000000 41.90 .0							.00
							.00
"你们学生,你们我们什么,我想想到我的,我们的我说是你?""你是你的,你是你的,你说你了,你说你,你是你的你?""你说,你是你说你?""你说,你是你说你?""你,			WATER - DRILLING		.00000000	1,538,19	.00 .00

TEVENS & TULL, YNC.

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INVGICE NG. 003815-02

INVOICE DATE 10/31/92

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STATE: NM COUNTY: LEA PAGE 2

EFERENCE	VENDOR	DESCRIPTION		INTEREST TYPE	GR <b>0</b> 93	YOUR SHARE
.9-02164	SCURLOCK PERMIAN CORPORAT	WATER - DRILLING		.0000000	558.76	,00
.0-02165	SCURLOCK PERMIAN CORPORAT	WATER - DRILLING		.00000000	1.088.83	.00
.0/92	STEVENS & TULL, INC.	INSURANCE		.00000000	675.89	.00
			TOTAL INTANGIBLE COSTS		84,034,75	.00
LEASE EQU	IPMENT - NEW					
782	POSEY PIPE & EQUIPMENT	CASING	1340.1', 8 5/S"	,00000000	10,109.99	.00
092-11	BOND-COAT, INC.	CASING	BOND-COAT 5 1/2"	,00000000	638.94	,00
790	POSEY PIPE & EQUIPMENT	CASING	5 1/2", 3380,15'	.00000000	15.526.85	, 60
0~138	RIO TANKS, INC.	LINE FIPE	2000', 3" FLOWLINE	.00000000	2.404.43	.00
7565-1	R & R BERVICE CO INC.	SEPARATOR	3-FHASE	.00000000	4.773.45	, 00
0555	TOMMY WHITE SUPPLY CO I	BUCKER RODS	32001. 3/4" RODS	.00000000	3,978,31	.00
16852	TOMMY WHITE SUPPLY CO., I	VALVES & FITTINGS	· ·	.00000000	101,13	.00
031	A-1 PUMP & SUPPLY	VALVES & FITTINGS	:	.00000000	596.43	.60
12008-01	UNION SUPPLY CD.	VALVES & FITTINGS		.00000000	741.54	.00
17992	TOMMY WHITE SUPPLY CO I			,00000000	386,25	.06
13257	TOMMY WHITE SUPPLY CO I	VALVES & FITTINGS	· · ·	,0000000	230.89	.00
12705-01	UNION SUPPLY CO.	VALVES & FITTINGS		.3660000	435.34	.60
16852	TOMMY WHITE SUPPLY CO I	WELLHEAD		.03063900	454.54	, 20
			TOTAL LEASE EQUIPMENT - N	IEW	40.877.90	,90
E CQUI	IPMENT - UGED					
1092-01	STEVENS & TULL, INC.	NISCELLANEOUS	1-917E C PANEL	.00000000	319.73	. 00
	STEVENS & TULL, INC.	MOTOA	1-15HP WESTINGHOUSE	,00000000	447.63	,00
1092-01	STEVENS & TULL, INC.	FUMPING UNIT	1-CAP67 030	.00000000	1.730.25	.30
2966	RENG EQUIFMENT	TUBING	3325.71, 2-3/8"	.00000000	3.739.95	.00
			TOTAL LEASE EQUIPMENT - U	SED	8,237,56	, .)0

TOTAL BILLABLE AMOUNT 145.445.19 .00

	tull, INC,			<i></i>		
STEVENS -	9999995 OFFICE COPY	JUINI	OWNER INVOIC	Ľ	INVDICE NO.	
PROPERTY			STATE: NM COUNT	су. I <b>сл</b>		
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REFERENCE	VENDOR	DESCRIPTION		INTEREST TYPE	GROSS	YOUR SHARE
PROCESS	TOTHER COST					
1 1001 201	STEVENS & TULL. INC.			0.0000000	1.474.94	0,00
	ាក់។ សូមី២ សូមីដ៏៖		TOTAL PROSPECT/OTHER CO	ST	1.474.94	0.00
INTANGIB	LE COSTS					
10/92	STEVENS & TULL, INC.	DRILLING OVERHEAD	ADJ 10/92	0.00000000	1.609.80	
10/92	STEVENS & TULL, INC.		ADJ 10/92	0.0000000	-1.614.77	
406984	THE NESTERN COMPANY OF NO	CEMENTING	ADJ 10/92	0.0000000	6.433.67	0.00
407372	THE WESTERN COMPANY OF NO	CEMENTING	ADJ 10/92	0.0000000	6,103.41	
406984	THE WESTERN COMPANY OF NO		ADJ 10/92	0.0000000	-6.453.56	
407372	THE WESTERN COMPANY OF NO		ADJ 10/92	0.0000000	-6,122.28	0.00
1092-107	D. C. WELL SERVICE, INC.	COMPLETION UNIT	ADJ 10/92	0.0000000	3,497.88	0.00
1092-107	D. C. WELL SERVICE, INC.		ADJ 10/92	0.0000000	-3.508.69	0.00
002329	CAPSTAR DRILLING	DRILLING	ADJ 10/92	0.0000000	30,210.45	0.00
002329	CAPSTAR DRILLING	DRILLING	ADJ 10/92	0.0000000	-30,303.87	0.00
61964 -	MCCLATCHY BROS., INC.	EQUIP RENTAL/TRUCKING		0.0000000	174.20	0.00
29590 ¥	LEWALLEN SUPPLY CO., INC.		ADJ 10/92	0.0000000	235.07	0.00
37080 35188	BRANTLEY TRUCKING, INC.		ADJ 10/92 ADJ 10/92	0.0000000	1,237.41	0.00
1092-106	FORKLIFTENTERPRISES D. C. WELL SERVICE, INC.	EBUIP KENIAL/IKULKING	ADJ 10/92	0.00000000	200,93	0.00
- 7809	POSEY PIPE & EQUIPMENT	EQUIP RENTAL/TRUCKING	ADJ 10/92 ADJ 10/92	0.00000000 0.0000000	365.90 234.98	0.00 0.00
- 008709	AJAX REPAIR AND SUPPLY. I		HUU IV/JL	0.00000000	184.54	0.00
1092-9	STEVENE L THE INC	EQUIP RENTAL/TRUCKING	ADJ 10/92	0.00000000	84.00	0.00
1192-25	STEVENS E THE INC	PIPE TRAILER	HD0 10/11	0.00000000	42.00	0.00
61964	STEVENS & TULL, INC. STEVENS & TULL, INC. MCCLATCHY BROS., INC.	EQUIP RENTAL/TRUCKING	ADJ 10/92	0.00000000	-174.73	0.00
29590	LEWALLEN SUPPLY CO., INC.		ADJ 10/92	0.0000000	-235.79	0.00
37080	BRANTLEY, TRUCKING, INC.	EQUIP RENTAL/TRUCKING	ADJ 10/92	0.00000000	-1,241,23	0.00
35188	FORKLIFT ENTERPRISES	EQUIP RENTAL/TRUCKING	ADJ 10/92	0.00000000	-201.55	0.00
1092-106	D. C. WELL SERVICE. INC.	EQUIP RENTAL/TRUCKING	ADJ 10/92	0.00000000	-367.03	0.00
7809	POSEY PIPE & EQUIPMENT	EQUIP RENTAL/TRUCKING	ADJ 10/92	0.00000000	-235.70	0.00
1092-9	STEVENS & TULL, INC.	EQUIP RENTAL/TRUCKING	ADJ 10/92	0.0000000	-84.25	0.00
0492-78	STEVENS & TULL, INC.	LABOR - ENGINEER	ADJ 10/92	0.0000000	317.00	0.00
0592-2	STEVENS & TULL, INC.	LABOR - ENGINEER	ADJ 10/92	0.0000000	1,326.53	0.00
0692-44	STEVENS TULL, INC.	LABOR - ENGINEER	ADJ 10/92	0.0000000	53.89	0.00
,∼0592−2	STEVENS TULL, INC.	LABOR - ENGINEER	. ADJ 10/92 .	0.0000000	-15.85	0.00
+ 1092-34	STEVENS TULL, INC.	LABOR - ENGINEER	ADJ 10/92	0.00000000	3,583.60	0.00
1192-52	STEVENS TULL, INC.	LABOR - ENGINEER		0.00000000	718.38	0.00
0492-78	STEVENS & TULL, INC.	LABOR - ENGINEER	- ADJ 10/92	0.0000000	-317.98	0.00
0592-2	STEVENS I TULL, INC.	LABOR - ENGINEER	ADJ 10/92	0.00000000	-1.330.63	0.00
0692-44	STEVENS TULL, INC.	LABOR - ENGINEER	ADJ 10/92	0,00000000	-54.05	0.00
0592-2	STEVENS TULL. INC.	LABOR - ENGINEER	ADJ 10/92	0.0000000	15.89	0.00
1092-34	STEVENS TULL, INC.	LABOR - ENGINEER	ADJ 10/92	0.0000000	-3,594.68 103.77	0.00
0492-67	STEVENS TULL, INC.	LABOR - FOREMAN	- ADJ 10/92 ADJ 10/92	0.00000000 0.00000000	103.77	0.00 0.00
0592-11	STEVENS TULL, INC.	LABOR - FORENAN LABOR - FORENAN	ADJ 10/92	0.00000000	1,101.71	0.00
1092-47	STEVENS & TULL, INC.	LABOR - FOREMAN	1V//2	0.00000000	1.622.64	0.00
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STEVENS & TULL, INC.

#### JOINT OWNER INVOICE

INVOICE NO. 2800361502

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003615-02 FEDERAL 9 #2 - AFE

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PAGE 2

INVOICE DATE 11/30/92

REFERENCE	VENDOR	DESCRIPTION			INTEREST	ТҮРЕ	GROSS	YOUR SHARE
4				····				
0492-67	STEVENS & TULL. INC.	LABOR - FOREMAN	۸n	J 10/92	0.0000000		101 00	0.00
2.0592-11	STEVENS & TULL, INC.	LABOR - FOREMAN		J 10/92	0.00000000		-104.09	0.00
1092-47	STEVENS & TULL, INC.	LABOR - FOREMAN		J 10/92	0.00000000		-104.09	0.00
10/19/92	RANDY HALL, DEA POGAR	LABOR - GEOLOGIST		3 10/92			-1.105.11	0.00
10/19/92	RANDY HALL, DBA POGAR	LABOR - GEOLOGIST		J 10/92	0.0000000		400.00	0,00
28614	RON'S WELDING, INC.	LABOR - ROUSTABOUT			0.0000000 0.0000000		-401.23	0.00
0471	J. H. LINDSEY	LABOR - ROUSTABOUT		10/92			137.48	0.00
1092-62				10/92   10/92	0.0000000		560.00	0.00
	STEVENS TULL, INC.	LABOR - ROUSTABOUT	HD7	10/92	0.0000000		390.04	0.00
925034	K & S PAINTING, SANDBLAST		40.5	1 10/00	0.0000000		501.13	0.00
28614	RON'S WELDING, INC.	LABOR - ROUSTABOUT		10/92	0.00000000		-137.90	0.00
0471	J. H. LINDSEY	LABOR - ROUSTABOUT		10/92	0.0000000		-561.73	0.00
1092-62	STEVENS TULL, INC.	LABOR - ROUSTABOUT		10/92	0.0000000		-391.24	0.00
35284	FORKLIFT	LOCATION - CLEANUP	RUJ	10/92	0.0000000		150.69	0.00
35643	FORKLIFT	LOCATION - CLEANUP			0.0000000		200.93	0.00
35284	FORXLIFT, ENTERPRISES	LOCATION - CLEANUP		10/92	0.0000000		-151.15	0.00
ELS-114	ENVIRONMENTAL LINING SERV			10/92	0.0000000		611.10	0,00
1092-024	GLOBE CONSTRUCTION COMPAN	LOCATION - ROADS, PITS		10/92	0.0000000		10,972.00	0.00
. 001032	HOBBS ANCHOR, INC.	LOCATION - ROADS, PITS		10/92	0.0000000		633.44	0.00
1092-065	GLOBE CONSTRUCTION COMPAN			10/92	0.0000000		183.57	0.00
ELS-114	ENVIRONMENTAL LINING SERV	LOCATION - ROADS, PITS		10/92	0.0000000		-612.98	0.00
-1092-024	GLOBE CONSTRUCTION COMPAN	LOCATION - ROADS. PITS	adj	10/92	0.0000000		-11.005.93	0.00
001032	HOBBS ANCHOR, INC.	LOCATION - ROADS, PITS	ADJ	10/92	0.0000000		-635.39	0.00
1092-065	GLOBE CONSTRUCTION COMPAN	LOCATION - ROADS, PITS	ADJ	10/92	0.00000000		-184.13	0.00
1341 -	GASKIN 🎡	LOCATION - SURVEY	ADJ	10/92	0.0000000		550.55	0.00
1359	GASKIN ANT	LOCATION - SURVEY	ADJ	10/92	0.0000000		156.17	0.00
1341	6ASKIN	LOCATION - SURVEY	ADJ	10/92	0.0000000		-552.25	0.00
1359	GASKIN 💱.	LOCATION - SURVEY	ADJ	10/92	0.00000000		-156.65	0.00
011772	BPB INSTRUMENTS, INC.	LOGGING - CASED HOLE			0.0000000		3,132.14	0.00
1632	MCNEESE LOGGING SERVICE I	LOGGING - MUD	ADJ	10/92	0.0000000		2,832.78	0.00
1632	NCNEESE LOGGING SERVICE I	LOGGING - MUD	ADJ	10/92	0.00000000		-2,841.54	0.00
6/9/92ST	NEW MEXICO ARCHAEOLOGICAL	MISCELLANEOUS	ADJ	10/92	0.00000000		275.01	0.00
56629	REYNOLDS BROS. REPRODUCTI	MISCELLANEOUS	ADJ	10/92	0.0000000		88.92	0.00
29817CK	MICHAEL SO MOONEY	MISCELLANEOUS			0.0000000		8.38	0.00
6/9/92ST	NEW MEXICO ARCHAEOLOGICAL		ADJ	10/92	0.00000000		-275.86	0.00
56629	REYNOLDS BROS. REPRODUCTI	MISCELLANEOUS		10/92	0.00000000		-89.19	0.00
4638	HORIZON MUD COMPANY	MUD & CHEMICALS		10/92	0.00000000		2,826.15	0.00
4638	HORIZON MUD COMPANY	NUD & CHEMICALS		10/92	0.00000000		-2.834.89	0.00
1558	CAPITAN CORPORATION	PERFORATING		10/92	0.00000000		1.730.00	0.00
1558	CAPITAN CORPORATION	PERFORATING		10/92	0.00000000		-1.735.35	0.00
71576	A. A. DILFIELD SERVICE	WASTE WATER / MUD DISPOSA			0.00000000		221.02	0.00
71576	A. A. DILFIELD SERVICE	WASTE WATER / MUD DISPOSA			0.00000000		-221.70	0.00
008213	THE WESTERN COMPANY OF NO	STIMULATION - ACIDIZING		-	0.0000000		-160.00	0.00
28902CK	MICHAEL G. MOONEY	TRAVEL EXPENSE & MILEAGE .	ADJ	10/92	0.00000000		3,10	0.00
10/19/92	RANDY HALL, DBA POGAR			10/92	0.00000000		140.55	0.00
29660CK	MICHAEL GI: MOONEY			10/92	0.00000000		41.78	0.00
28902CK				10/92	0.0000000		-3.10	0.00
2010TON	MICHAEL	the chiende a nicende						

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STEVENS	Ş.	TULL,	INC
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#### JOINT OWNER INVOICE

INVOICE NO. 2800361502

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PROPERTY			CTATEL HM CONNER	/, ΙζΛ	0.800	7
	003615 <sup>2</sup> 02 FEDERAL 9 #2		STATE: NM COUNT		PADE	3
REFERENCE	VENDOR				GROSS	YOUR SHA
				1999 <sup>- 1</sup>		
10/19/92	RANDY HALL, DBA POGAR	TRAVEL EXPENSE & MILEAGE	ADJ 10/92	0.0000000	-140.98	
29660CK	MICHAEL 6. MOONEY			0.0000000	-41.90	0.
10-02163	SCURLOCK PERMIAN CORPORAT		ADJ 10/92	0.00000000	1.633.14	0.
10-02164	SCURLOCK PERMIAN CORPORAT	WATER - DRILLING	ADJ 10/92	0.0000000	557.04	0.
10-02165	SCURLOCK PERMIAN CORPORAT	WATER - DRILLING	ADJ 10/92	0.00000000	1.065.34	0.
10-02163	SCURLOCK PERMIAN CORPORAT	WATER - DRILLING	ADJ 10/92	0.00000000	-1.638.19	0,
10-02164	SCURLOCK PERMIAN CORPORAT	WATER - DRILLING	ADJ 10/92	0.0000000	-558.76	٥.
10-02165	SCURLOCK PERMIAN CORPORAT		ADJ 10/92	0.0000000	-1,068.63	٥.
10/92	STEVENS & TULL, INC.	FACILITIES & SYSTEMS EXPE		0.0000000	596.96	0.
10/92	STEVENS TULL. INC.	INSURANCE	ADJ 10/92	0.0000000	673.81	0.
10/92	STEVENS TULL, INC.	INSURANCE	ADJ 10/92	0.0000000	-675.89	0.0
		TOT	AL INTANGIBLE COSTS		6.588.15	0.
	IPMENT - NEW	040110	AD1 10/00		10 070 07	
7782	POSEY PIPE & EQUIPMENT	CASING	ADJ 10/92	0.0000000	10,078.83	0.4
1092-11	BOND-COAT, INC.	CASING	ADJ 10/92	0.0000000	636.98	0.1
7790 ,	POSEY PIPE & EQUIPMENT	CASING	ADJ 10/92	0.00000000	15,478.98	0.
7782	POSEY PIPE & EQUIPMENT	CASING	ADJ 10/92	0.0000000	-10,109.99	0.
1092-11	BOND-COAT, INC.	CASING	ADJ 10/92	0.0000000	-638.94	0.1
7790	POSEY PIPE & EQUIPMENT	CASING	ADJ 10/92	0,0000000	-15,526,85	0.0
10-138	RIO TANKS, INC.	LINE PIPE	ADJ 10/92	0.0000000	2,397.02	0.0
10-138	RIO TANKS, INC.	LINE PIFE	ADJ 10/92	0.0000000	-2.404.43	0.0
10-147		MISCELLANEDUS		0.00000000	68.90	0.0
• 84714	DIXIE ELECTRIC INC.	MISCELLANEOUS	ELECTRICAL	0.0000000	4,272.75	0.0
84752	DIXIE ELECTRIC INC.	MISCELLANEBUS	ELECTRICAL	0.0000000	1.055.00	0.0
159098-01		MISCELLANEOUS		0.0000000	226.33	0.0
17568-1		SEPARATOR	ADJ 10/92	0.0000000	4.758.75	0.0
17558-1	R & R SERVICE CO., INC.	SEPARATOR	ADJ 10/92	0.0000000	-4,773.46	0.(
40565			ADJ 10/92	0.00000000	3,966.05	0.(
40565	TONNY WHITE SUPPLY CO., I	SUCKER RODS	ADJ 10/92	0.0000000	-3,978.31	0.(
016852	TONNY WHITE SUPPLY CD., I	VALVES & FITTINGS	ADJ 10/92	0.0000000	100.82	0.(
4081	A-1 PUNES SUPPLY	VALVES & FITTINGS	ADJ 10/92	0.0000000	594.60	0.0
112008-01		VALVES & FITTINGS	ADJ 10/92	0.0000000	739.26	0.0
017992	TONNY WHITE SUPPLY CO., I	VALVES & FITTIŅGS	ADJ 10/92	0.00000000	883.52	0.0
<b>018267</b>	TOMMY WHITE SUPPLY CO., I	VALVES & FITTINGS	ADJ 10/92	0.0000000	229.98	0.0
112705-01		VALVES & FITTINGS	ADJ 10/92	0.0000000	434.00	0.0
4141		VALVES & FITTINGS		0.0000000	231.75	0.0
016852	TONMY WHITE SUPPLY CO., I		ADJ 10/92	0.0000000	-101.13	0.0
4081		VALVES & FITTINGS	ADJ 10/92	0.0000000	-596.43	0.0
		VALVES & FITTINGS	ADJ 10/92	0.0000000	-741.54	0.0
017992	TOMMY WHITE SUPPLY CO., I		ADJ 10/92	0.0000000	-886.25	0.0
018267	TONMY WHITE SUPPLY CO., I		ADJ 10/92	0.0000000	-230.69	0.0
112705-01		VALVES & FITTINGS	ADJ 10/92	0.0000000	-435.34	0.0
016852	TOMMY WHITE SUPPLY CO., I		ADJ 10/92	0.00000000	453.14	0.0
£016852	TOMMY WHITE SUPPLY CO., I		ADJ 10/92	0.00000000	-454.54	0.0
<u>    10-147</u>		INSTALLATION-SURFACE EQUI		0,00000000	148.53	0.0
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	STEVENS &	TULL. INC		JOINT	OWNER INVCI	CE	INVOICE NO.	
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39		003615-02	FEDERAL 9 #2		STATE: NN COU	NTY: LEA	PAGE	4
- ,	REFERENCE	VENDOR		DESCRIPTION		INTEREST TYPE	GROSS	YOUR SHARE
· · ·	84714 84752	DIXIE ELECTR DIXIE ELECTR	IC INC. IC INC.	INSTALLATION-SURFACE INSTALLATION-SURFACE	EQUI EQUI TOTAL LEASE EQUIPMENT	0.00000000 0.00000000 - NEW	1.371.50 527.50 7.776.29	0.00 0.00 0.00
	MT1092-01	STEVENS & TUL STEVENS & TUL STEVENS & TUL	L, INC. L, INC. L, INC. L, INC. L, INC. L, INC.	MISCELLANEDUS MISCELLANEDUS MOTOR MOTOR PUMPING UNIT PUMPING UNIT TUBING TUBING	ADJ 10/92 ADJ 10/92 ADJ 10/92 ADJ 10/92 ADJ 10/92 ADJ 10/92 ADJ 10/92 ADJ 10/92 ADJ 10/92 TDTAL LEASE EQUIPMENT	0.00000000 0.00000000 0.00000000 0.000000	318.75 -319.73 446.25 -447.63 3.718.75 -3,730.25 3.728.42 -3.739.95 -25.39	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
	·				TOTAL BI	LLABLE AMOUNT	15,013.99	0.00
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• TEVENS & TULL, INC.

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## JOINTOWNER INVOICE INVOICE NO. 5190516003

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- •	9999995 OFFICE COPY				INVOICE DATE	01/31/95
RTY	006160-03 BF STATE #3	- AFE	STATE: NM COUNTY	': EDDY	PAGE	1
EFERENCE	VÊNDOR,	DESCRIPTION		INTEREST TYPE	GROSS	YOUR SHARE
		***************************************		****************		
INTANGIBL	F CASTS					
1955	STEVENS & THEFT INC	DRIFTING OVERHEAD	10/00/94-1/00/95	0 00000000	2.268.49	0.00
53571	THE WESTERN COMPANY OF NO THE WESTERN COMPANY OF NO	CENENTING	11)10))/ 1110))0	0.00000000	2,895.01	
64204	THE VESTERN COMPANY OF NO	CENENTING		0.00000000	2,826.63	0.00
4285	X-PERT WELL SERVICE CO.,	COMPLETION UNIT		0.00000000	3,087.14	0.00
4330	X-PERT WELL SERVICE CO.,	COMPLETION UNIT		0.00000000	5,300.73	0.00
02827	CAPSTAR DETILING	NOTI I ING		0.00000000	37,280.87	0.00
02830	CAPSTAR DRILLING	DRIELING		0.00000000	6,709.69	0.00
02466	GREGG EIN EER	FI FOTRICAL MODVID		0.00000000	2,205.30	0.00
987	CAPSTAR DRILLING CAPSTAR DRILLING SREGG FULFER CHANCE TOOL CD., INC.	EGHID RENTAL /TRUPYING		0.00000000	1,097.10	
005	RENO EQUIPHENT	EQUIP RENTAL/TRUCKING		0.0000000	1,007.10	
207	INDIAN FIRE AND SAFETY, I			0.00000000	486.75	
5341				0.00000000	196.98	
2-09752	MCCLATCHY BROS., INC.	FORTP RENTAL/TRUCKING		0.00000000	105.45	
2-09754	D.D. RENTALS	EGGIT DENTAL / TRUCKING		0.00000000	64.89	
107B	BRANILEY TRUCKING, INC.			0.00000000	928.45	
352				0.00000000	673.60	
332 31004	CHAPARRAL SERVICE, INC.			0.00000000	573.60 699.24	
1143	BRANTLEY TRUCKING, INC.				346.15	
	LEAMCO-RUTHCO			0.00000000	4,313.78	
2	PECOS VALLEY TOOLS, INC.			0.00000000	673.60	
- 294-36	STEVENS & TULL, INC.			0.00000000	-1,805.93 ~	
294-36	STEVENS & TULL, INC.	LARAR - ENGINEER		0.00000000	1,759.00 ~	
195-37	STEVENS & TULL, INC.	LARAR - ENGINEER		0.00000000	2,327.00 ~	
195-39	STEVENS & TULL, INC.	LABOR - ENGINEER		0.00000000	2.272.80 ✓	
294-36	STEVENS & TULL, INC.	LABOR - ENGINEER		0.00000000	46.90`)	0.00
195-37	STEVENS & TULL, INC.	LABOR - ENGINEER		0.00000000	98.86	0.00
195-38	STEVENS & TULL, MNC.	LABOR - ENGINEER		0.00000000	113.67	0.00
35-23	STEVENS & TULL, INC.	LABOR - FOREMAN		0,0000000	4,303.85	0.00
35-23	STEVENS & TULL, INC.	LABOR - FOREMAN		0.0000000	-4.303.85	0.00
95-23	STEVENS & TULL, INC.	LABOR - FOREMAN	•	0.00000000	4.098.90	0,00
75-23	STEVENS & TULL, INC.	LABOR - FOREMAN		0.00000000	204.94)	0.00
523	RAY HARE	LABOR - ROUSTABOUT		0.00000000	120.00	0.00
20987	KEVIN ROBERTS	LABOR - ROUSTABOUT	. •	0,00000000	135.6B	0.00
19956	B-M SERVICE COMPANY, INC.			0,0000000	740.59	0.00
61000		LARCR - ROUSTABOUT		0.0000000	483.99	0.00
)0382	B-N SERVICE COMPANY, INC.	LABOR - ROUSTABOUT		0.0000000	721.80	0.00
01102	B-M SERVICE COMPANY, INC.	LABOR - ROUSTABOUT		0.0000000	810.43	0.00
78343	B-M SERVICE COMPANY, INC.			0.0000000	661.65	0.00
01103	B-M SERVICE COMPANY, INC.			0.0000000	884.10	0.00
/8344	B-N SERVICE CONPANY, INC.			0,0000000	571.44	0.00
)1104	B-M SERVICE COMPANY, INC.			0.00000000	296.81	0.00
5994	B-N SERVICE COMPANY, INC.			0.00000000	469.58	0.00
79 <b>868</b>	B-M SERVICE COMPANY, INC.			0.0000000	837,81	0.00
19869	B-N SERVICE COMPANY, INC.			0.00000000	801.12	0.00
7	B-M SERVICE COMPANY, INC.	LABOR - ROUSTABOUT		0.0000000	564.14	0.00

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#### STEVENS & TULL, INC. JOINTOWNERINVOICE INVOICE NO. 5100515003

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INVOICE DATE 01/31/95

9999995 OFFICE COPY \_\_\_\_ERTY 006160-03 BF STATE #3 - AFE STATE: NM COUNTY: EDDY PAGE 2 EFERENCE VENDOR DESCRIPTION INTEREST TYPE GROSS YOUR SHARE REFERENCE VENDUR DESCRIPTION INTEREST TYPE GROSS YOUR SHARE 
 EFERENCE
 VEXUUE
 DECLIFICUM
 ATTEND FIT
 DADUE
 Constraint

 9707
 B-H SERVICE COMPANY, INC.
 LOCATION - ROADS, PITS
 0.00000000
 240.60
 0.00

 97333
 NCCASIAND SERVICES, INC.
 LOCATION - ROADS, PITS
 0.00000000
 420.24
 0.00

 97373
 DIAMON SERVICES, INC.
 LOCATION - ROADS, PITS
 0.0000000
 830.42
 0.00

 97477
 MORADS SERVICES, INC.
 LOCATION - ROADS, PITS
 0.00000000
 130.72
 0.00

 97477
 MORADS SERVICES, INC.
 LOCATION - ROADS, PITS
 0.0000000
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 97477
 MORADS SERVICES, INC.
 LOCATION - ROADS, PITS
 0.00000000
 1,772.00
 0.00

 9747
 MORADS SERVICES, INC.
 LOSATION - ROADS, PITS
 0.00000000
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 9744
 MORADS ANCORS, INC.
 MISELLANEOUS
 UPERADE BHP
 0.00000000
 1,777.4
 0.00

 9757
 HORES ANCORS, INC.
 MISELLANEOUS
 UPERADE BHP
 0.00000000
 1,437.74
 0.00

 9767
 HORES ANCORS, INC.
 LEASE EQUIPMENT - NEN

0427	GARNER PUMP & SUPPLY, INC	BOTTOM HOLE PUMP		0.00000000	2,633.91	0,00
356	POSEY PIPE & EQUIPMENT, I	CASING	3446.80; 4 1/2"	0.00000000	11,172.28	0,00
15295	ROJO SPECIALTY & EQUIPMEN	CASING		0.0000000	119.57	0.00
02465	GREGS FULFER	MISCELLANEOUS	ELECTRICAL	0.0000000	4,274.75	0.00
INV950211	ROYALTY SUPPLY	SUCKER RODS	3158', 3/4"	0.00000000	1,027.07	0.00
5-1001	NIKE PASSMORE, DBA P & P	TUBING	3472', 112 JTS., 2 3	0.00000000	6,197.52	0.00
INV950211	ROYALTY SUPPLY	VALVES & FITTINGS		0.00000000	1,956.79	0.00
** *095	UNITED WELLHEAD SERVICES,	WELLHEAD		0.0000000	1,367.10	0.00
			TOTAL LEASE EQUIPMENT - N	EW	28,748.99	0.00

STEVENS & T	ULL, INC.			JOINT OWNER INVOICE			INVOICE NO	. 5100616003	
	9999995	OFFICE COPY				INVOICE DATE 01/31/95			
ERIY	005150-03	BF STATE ₩3	- AFE		STATE:	NK COUNTY:	EDDY	PAG	E 3
REFERENCE	VÉNDOR		DES	CRIPTION			INTEREST TYPE	GROSS	YOUR SHARE
LEASE EDUI 002466	PNENT - USED Grebb Fulfer		MOTOR		15 H.P., E Total lease ed			442.05 442.05	0.00
		in an				TOTAL BILLAB	LE AMOUNT	155,221.30	0.00
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STEVENS &	TULL. INC.	JCINTO	WNER INVOIC	Ε	INVOICE NO	. 5200616003
	9999995 <b>OFFICE</b> COPY				INVOICE DAT	E 02/28/95
OPERTY	006160-03 BF STATE #3	- AFE	STATE: NM COUN	TY: EDDY	PAG	E 1
REFERENCE	VENDOR	DESCRIPTION .		INTEREST TYPE	GROSS	YOUR SHARE
	12 - 23. e				************	
INTANGIBL		TOUTD SCUTAL (TRUCKING		6 0000000	350 10	
22005	SONNY'S DIL FIELD SERVICE	EQUIP RENTAL/TRUCKING		0.0000000	359.42	0.00
22027	SONNY'S OIL FIELD SERVICE B-N SERVICE COMPANY. INC.	EQUIP RENTAL/TRUCKING		0.00000000 0.00000000	315.75	0,00
201736 201041	B-M SERVICE COMPANY, INC.	LABOR - ROUSTABOUT		0,00000000	106.00	0.00
93691	REYNOLDS BROS. REPRODUCTI	MISCELLANEOUS		0.00000000	656.68 39.15	0.00 0.00
35063CX	MICHAEL G. MODNEY	TRAVEL EXPENSE & MILEAGE		0.00000000	1.58	0.00
21998	SONNY'S DIL FIELD SERVICE			0.00000000	325.22	0.00
1/958.	STEVENS & TULL, INC.	FACILITIES & SYSTEMS EXP	r r	0.00000000	1.035.03	0.00
	•		TAL INTANGIBLE COSTS		2.839.83	0.00
LEASE EQUI	PMENT - NEW					
H3197-IN	MILFORD PIPE & SUPPLY. IN	LINE PIPE	30004. 3"	0.00000000	3.193.32	0.00
296726-01	UNION SUPPLY CO.	VALVES & FITTINGS		0.00000000	7.866.02	0,00

VALVES & FITTINGS VALVES & FITTINGS

296840-01 UNION SUPPLY CO.

296947-01 UNION SUPPLY CO.

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TOTAL BILLABLE AMOUNT

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38

TOTAL LEASE EQUIPMENT - NEW

0.00000000

0.00000000

0.00

0.60

0.00

207.69

559.66

11.826.69

14,666.52

# STEVENS & TULL, INC. JEINT OWNER INVOICE

INVEICE NO. 4000616003

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TRYERTY 006160-03 BF STATE #3 - AFE STATE: NY COUNTY: EDDY PAGE 1

**M** 

INVEICE DATE 12/31/94

REFERENCE	VENDOR	DESCRIPTION		INTEREST TYPE	88855	YOUR SHARE
INTANGIRU	E COSTS					
12/94D	STEVENS & THLÊ, INC.	DRILLING OVERHEAD		0,0000000	98.23	0.0
452965	THE WESTERN COMPANY OF NO	CEMENTING		0,0000000	4.641.54	0.00
	THE WESTERN COMPANY OF NO	CEMENTING		0.00000000	7,320,08	
4£3292	THE WESTERN COMPANY OF NO STAR TOOL CO. STAR TOOL CO. STEVENS & TULL, INC. SUFERIOR WELDING SERVICE SUFERIOR WELDING SERVICE	CEMENTING		0,0000000		
H0020924	STAR TOOL CO.	EQUIP RENTAL/TRUCKING	3	0.00000000	2.054.58	0.00
20020905	STAR TOOL CO.	NON-CONTR FITTINGS		0,00000000	507.00	0.00
1294-36	STEVENS & TULL, INC.	LABBR - ENGINEER		0.00000000	1,305,93	0.00
012759	SUPERIOR WELDING SERVICE	LABOR - ROUSTABOUT		0,00000000	144.42	0,00
012227	SUFERIOR WELDING SERVICE	LABOR - ROUSTABOUT		0,00000000	397.14	0.60
34728CX	KENNETH SMITH	LOCATION - DAMAGES 🖇		0,06000000	1,484,85	0.00
1734	MENEESE LOGGING SERVICE I	L0661N5 - MUD .			2.231.25	
100 <b>8</b>	R & B CASING INSPECTION	MISCELLANEOUS	INSPECT 9 5/3"	0,0000000	245.00	$0.5^{\circ}$
1009.5	R & B CASING INSPECTION	MISCELLANEOUS	INSPECT 7"	0,0000000	437.25	0.00
REBIÙL	STEVENS & TULL, INC.			0,0000000	1,055,99	0,00
RESILL	STEVENS & TULL, INC.	MISCELLANEOUS		0.0000000	-1,055,99	0,00
12/941	STEVENS & TULL, INC.	INSURANCE		0.0000000	19.67	0,00
	• •		TOTAL INTANGIBLE COSTS		17.535.49	0.00
FASE FOIL	FMENT - NEW					
39	S & S EDUIPHENT & SUPPLY.	PASING	FLINT COAT 4 1/2"	0.00006006	597.81	0.60
	POSEY PIPE & EQUIPMENT, I	PASING	905.8', 21 JTS., 7 5	0.00000000	10.497.34	0,00
2942	POSEY PIPE & EQUIPMENT, I					
2010			TOTAL LEASE EQUIPMENT - M		28,454.70	
		· .	TOTAL BILLA	BLE AMOUNT	55,991,19	0.00
	24 - 					
	974 Y	:				
	•					

PREPARED BYMichael G. MooneyINTEREST OWNERStevens & Tull, IncWELL &/OR LEASE NAMEGenericFIELD &/OR RESERVOIRWest TeasCOUNTY OR PARISHLea(2 CAP LETTERS) STATENMOPERATOR' NAMEStevens & Tull, IncPROJ COMB NAME -(COMB#)50.00 \* Required IF to be SAVED and COMBINEDPROJ SAVE FILE NAMEFed\* Unique name required to SAVE.EXPONENTIAL DECLINE NO OF WELLS (1 or more)\* 1 RESERVE CATEGORY: Proved Producing OIL WELL PROD - bbl/DAY 20 REMARKS BELOW: G O R -- Mcf/bbl 4.00 GAS WELL PROD - Mcf/DAY NO SALT STRING CONDENSATE - bbl/MMcf EXPONENT -N- DECIMAL 0.00 Eff. DECLINE RATE - - % 10.00 YEARS OF CONSTANT PROD 0 SET ECO LIMIT 1=YES 0=NO 1 ECO RATE bbl OR Mcf/DAY 3 MAX YEARS TO CALC (4-30) 30 INVEST INVEST INVEST INVEST INPUT OF ECONOMIC DATA 2nd YR 3rd YR 4th YR 5th YR IDC & OTHER EXP - \$ 105393 TANG & LSE EQUIP - \$ 56866 \_\_\_\_\_\_\_\_\_\_ 

 INPUT OF ECONOMIC DATA
 2nd YR 3rd YR 4th YR 5th YR

 IDC & OTHER EXP - \$
 105393

 TANG & LSE EQUIP - \$
 56866

 LSEHOLD COST - \$
 0

 DIR OPR EXP/WELL - \$/YR
 24000

 INITAL REVENUE INTEREST - \$
 75.0000

 DIR OPR EXP/WELL - \$/YR
 24000

 INTAL REVENUE INTEREST - \$
 75.0000

 NET OS TART ESC
 1

 INTAL REVENUE INTEREST - \$
 75.0000

 NET OIL REV
 5.94
 0 FOR NO REVERSION

 SEV TAX - \$ NET GAS REV
 5.79
 1 FOR GROSS INCOME \$

 SEV TAX - \$ NET GAS REV
 5.79
 1 FOR GROSS INCOME \$

 ADV TAX - \$ OF NET REV
 0.00
 OLL PRICE - \$/BEL
 15.00

 IANNUAL INTEREST RATE \$
 0.00
 OLL ESC START YEAR NO.
 1

 TERM 0=FIX 1=DEDICATED
 0
 GAS PRICE - \$/MCF
 1.65

 DEDICATION OF TOT REV \$
 0.00
 GAS ESC START YEAR NO.
 1

 CUMULATIVE PROD - bbl
 0
 LSEHOLD RISK FACTOR -- % 100.00 TANG & EQUIP RISK FACTOR - % 100.00

PREPARED BY	Michael G. Mooney
INTEREST OWNER	Stevens & Tull, Inc
WELL &/OR LEASE NAME	Generic
FIELD &/OR RESERVOIR	West Teas
COUNTY OR PARISH	Lea
(2 CAP LETTERS) STATE	NM
OPERATOR' NAME	Stevens &
PROJ COMB NAME -(COMB#)	50.00
PROJ SAVE FILE NAME	Fed

SUMMARY OF EXPONENTIAL	DECLINE
EVALUATION DATE	21-Jul-95
INTEDICI	+
NO. MONTHS PROD IN 1st YEAR	5
ECO LIFE - YEARS	13.42
PAYOUT YRS	2.08
NET INCOME/INVEST	3.31
INTERNAL RATE RETURNMid-Year	39.1%
NPV @ SELECT RATE-\$ 10.00%	\$187,915
8/8 OIL RES - bbl	52,431 209,724
8/8 GAS RES - Mcf	209,724
NET OIL RES - bbl	39,323
8/8 GAS RES - Mcf NET OIL RES - bbl NET GAS RES - Mcf	157,293
NET COST/BOE - \$/BOE NET RETURN/BOE - \$/BOE NET INCOME/BOE - \$/BOE WT. AVG PRICE OIL - \$/bbl WT. AVG PRICE GAS - \$/Mcf OIL ECO RATE - bbl/DAY GAS ECO RATE - Mcf/DAY ULT OIL RECOV/ACRE - bbl	2.95
NET RETURN/BOE - \$/BOE	6.81
NET INCOME/BOE - \$/BOE	9.75
WT. AVG PRICE OIL - \$/bbl	17.46
WT. AVG PRICE GAS - \$/Mcf	1.94
OIL ECO RATE - bbl/DAY	5.1
GAS ECO RATE - Mcf/DAY	20.5
ULT OIL RECOV/ACRE - bbl	1,311
ULI GAS RECOV/ACRE - MCI	5,245
ULT OIL RECOV/ACRE-FT -bbl	9
ULT OIL RECOV/ACRE-FT -bbl ULT GAS RECOV/ACRE-FT -Mcf	35
<pre>\$ PER NET INIT PROD RATE</pre>	\$10,817

						RESERV	VE & ECONOMI(	C REPORT -				
PREP	ARED BY -		Michael (	G. Mooney		(	COMB NAME	50.00		CATEGORY -	Proved Pro	ducing Tull, Inc XPENSES
INTE	CREST OWNER	R	Stevens &	& Tull, I	nc	]	FILE NAME F	ed		COUNTY	Lea	-
WELL	&/OR LEAS	SE	Generic			E	VAL. DATE	21-Jul-95		STATE	NM	
FIEL	D OR RESEL	RVOIR -	West Teas	S		EFFEC	FIVE DATE AT	ug-95		OPERATOR -	Stevens &	Tull, Inc
-							NET OP	ERATING REV	VENUE	NET O	PERATING E	XPENSES
	GROSS	S PROD	NET	PROD	PRICE	PRICE	OIL	GAS	TOTAL	DIR & INDIR	SEV & ADV	TOTAL
YEAR	OIL-BBLS	GAS-MCF	OIL-BBLS	S GAS-MCF	0IL-\$	GAS-\$	REVENUE-\$	REVENUE-\$	REVENUE-\$	OPR EXP-\$	& TRANSP-	EXPENSES-\$
	EXPONENTIA											
1995	2976	11903	2232			\$1.65			\$48,209			
1996	6631	26524	4973				76,837		110,645			31,242
1997 '		23872	4476		15.91		71,228	31,340	102,568		6,046	
1998	5371	21484	4028		16.39	1.80	66,028 61,208	29,052	95,080		5,604	-
1999	4834	19336	3626		16.88	1.86	61,208	26,932	88,140		5,195	
2000	4351	17402	3263		17.39		56,740		81,705		4,816	32,638
2001	3916	15662	2937		17.91		52,598		75,741		4,464	
2002	3524	14096	2643		18.45			21,454	70,212	29,517		33,655
2003	3172	12686	2379		19.00		45,199		65,087		3,836	•
2004	2854	11418	2141		19.57		41,900			31,315		
2005	2569	10276	1927							32,254		
2006	2312	9248	1734							33,222		
S-TOT			36358	145432	WT.	WT.	627,190	276,681	903,871	326,609	53,275	379,884
REM.	3954	15815	2965	11861	AVG.	AVG.	59,306	28,300	87,605	69,463	5,161	74,624
TOTAL	52431	209724	39323	157293	\$17.46	\$1.94	686,496	304,981	991,477	396,072	58,436	454,508
										PRESEN		
										NPV		NPV
YEAR	CASH FLOW-	-\$ INVI	EST-\$ 10	JUU-\$ 10	00-\$	BTAX-Ş	BTAX-\$	REDUCTI	ION RATE-	₿ BTAX-\$	RATE-3	BLUX-2
							••••					+ ; = ~
	eos ou	() <b>e</b> 1(	60 050	0 0	0 0	/ #106 001)	. (#176 001	() ¢25	260 260	ed On Mid-Ye		(#2 710)
1446	455,50 70 AT	)0 ¢10	02,233 N	0.0	0.0 0.0	(#120,051) 70 /02	1 (0120,051 1 (0120,051	ן אָט (ג גע דע גע	102	2 325,6 5 264,6 8 215,5 10 187,9 12 163,6	52 40 52 45	(42,710) /16 /12)
1997	75,40	1	0	0.0	0.0	77,403	22 573	, , , , , , , , , , , , , , , , , , ,	061	204,0 8 215 5	JZ 4J 20 50	(10,412)
1998	62 25	1		0.0	0.0	62 251		1 11, 1 52	251	10 197 0	47 JU 15 55	(27,355)
1999	55 03	) <u>1</u> ) ()	· n	0.0	0.0	55 022	110,023	, 05, ; 55	027	10 107,7	10 20	(16 270)
7323	10 06	7 .7		0.0	0.0	10 067	191,823	) JJ,	067	15 122 2	42 00 QQ 65	(53,656)
2000 2001	49,06 42,61			0.0	0.0	49,067 42,619				15 132,3 18 106,1		(60,126)
2001	42,01				0.0 0.0	36,557				20 90,8		(65,844)
2002				0.0		30,848	301,847			,	21 80	(70,931)
2003	30,84 25,46			0.0 0.0	0.0 0.0	30,848 25,464	301,847				35 85	
2004	20,09			0.0	0.0	20,093	,			•	79 90	
2005	20,03			0.0		14,325		) 14,		•	AX SUMMARY	• • •
2000 S-TOT			62,259	0.0	0.0	361,729				THS IN 1st Y		
	12,98		.0	0.0		12,981				LIFE		13.42
TOTAL			52,259	0.0	0.0	374,710				C SELECT RA		
IVIND	1 10,90	// I(		0.0	0.0	2141170				INCOME/INVE		• •
w	ET COST/BO	)E	\$/802 4	2.95	 በ፲፲ በ	DIL RECOVI	ACRE BE	 I. 1.		RATE RETURN		
	ET RETURN/			6.81			ACRE MC			OUT		2.08
	ET INCOME/			<b>9</b> .75			ACRE-FT BE			ER NET INIT		
	IL ECO RAJ			5.1			ACRE-FT MC			OIL RES		
	AS ECO RAI			20.5						GAS RES		•
	NIT PROD F									OIL RES		•
	ECLINE RAT						INT			GAS RES		
	XPONENT -						INT			OIL RECOV -		
	ROD. RISK						ISK FACTOR-			GAS RECOV -		
	SEHOLD RIS						R			J 1	****	

PREPARED BYMichael G. MooneyINTEREST OWNERStevens & Tull, IncWELL &/OR LEASE NAMEGenericFIELD &/OR RESERVOIRWest TeasCOUNTY OR PARISHLea(2 CAP LETTERS) STATENMOPERATOR' NAMEStevens & Tull, IncPROJ COMB NAME -(COMB#)50.00 \* Required IF to be SAVED and COMBINEDPROJ SAVE FILE NAMEFed\* Unique name required to SAVE.EXPONENTIAL DECLINE EXPONENTIAL DECLINENO OF WELLS (1 or more)\*1RESERVE CATEGORY: Proved ProducingOIL WELL PROD - bbl/DAY20REMARKS BELOW:G O R -- Mcf/bbl4.00GAS WELL PROD - bbl/MMcfR-111-P REGULATIONSCONDENSATE - bbl/MMcfSET ECO LIMIT 1=YES 0=N0EXPONENT -N- DECIMAL0.00EFf. DECLINE RATE - - %10.00YEARS OF CONSTANT PROD0SET ECO LIMIT 1=YES 0=N01ECO RATE bbl OR Mcf/DAY3MAX YEARS TO CALC (4-30)30INPUT OF ECONOMIC DATA2nd YR 3rd YRTANG & LSE EQUIP - \$56866LSEHOLD COST - \$0DIR OPR EXP/WELL - \$/YR24000INITAL REVENUE INTEREST - %75.0000DIR OPR EXP/WELL - \$/YR24000INDIR OPR EXP \* NET REV0.00SEV TAX - % NET GAS REV5.79SEV TAX - % NET GAS REV5.79SEV TAX - % NET GAS REV5.79ADV TAX - % OF NET REV0.00COAN PRINCIPAL - \$0OIL PRICE = \$/BBL15.00LOAN PRINCIPAL - \$0OUL PRICE = \$/BBL1.00ADV TAX - % OF NOT REVER RATE %0.00COMULATIVE PROD - bbl0OIL PRICE = \$/BBL20.00TATL DEDICATED0MAX GAS PRICE ESC - %3.00COMULATIVE PROD - bbl0OGAS PRICE ESC - \$/MCF1.65DEDICATED OMAX GAS PRICE - \$/MCFCOMULATIVE PROD - bbl0COMULATIVE PROD - bbl0COMULATIVE \_\_\_\_\_

PREPARED BY INTEREST OWNER WELL &/OR LEASE NAME FIELD &/OR RESERVOIR COUNTY OR PARISH (2 CAP LETTERS) STATE OPERATOR' NAME PROJ COMB NAME -(COMB#) PROJ SAVE FILE NAME	Generic West Teas Lea NM
SUMMARY OF EXPONENT: EVALUATION DATE INVESTMENT NO. MONTHS PROD IN 1st YEAR ECO LIFE - YEARS PAYOUT YRS NET INCOME/INVEST INTERNAL RATE RETURNMid-Yea NPV @ SELECT RATE-\$ 10.00 8/8 OIL RES - bb1 8/8 GAS RES - Mcf NET OIL RES - bb1 NET GAS RES - Mcf NET COST/BOE - \$/BOE NET RETURN/BOE - \$/BOE NET RETURN/BOE - \$/BOE NET INCOME/BOE - \$/BOE WT. AVG PRICE OIL - \$/bb1 WT. AVG PRICE GAS - \$/Mcf OIL ECO RATE - bb1/DAY GAS ECO RATE - bb1/DAY ULT OIL RECOV/ACRE - bb1 ULT GAS RECOV/ACRE - Mcf ULT OIL RECOV/ACRE - Mcf \$ PER NET INIT PROD RATE	21-Jul-95 \$225,878 5 13.42 3.05 2.38

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							RESER	VE & ECONOM	IC REPORT -					· · · · · · · · · · · · · · · · · · ·
PREPAI INTERI	RED BY EST OWNER		Michael ( Stevens (	J. MOO & Tull	oney ., Inc			COMB NAME FILE NAME CVAL. DATE	50.00 Fed		CI C(	OUNTY	Proved Pro Lea	aucing
WELL 8	VOR LEASE		Generic					VAL. DATE	21-Ju1-95		SI	TATE	NM Ottoman a	Tull, Inc XPENSES
KIRTD	OR RESERV	(OIR -	west Tea:	5			EFFEC	TIVE DATE	AUG-95 Departne de	VENUE	01	PERATOR -	SIEVENS &	TUIL, INC
	CDOSS	DDAD	VFT	 חחמם	DD	 107 I		OIL	CAS	20 M D ፕሬሞስሞ	י	NEL U TD & TNDTD	CEV & ADU	69689
- זה מגיזע	IL PRIS C	PROD	OTT_BBI	PROD S CAS_	NOP OT	ius r [_€ 0	101 CL	REVENUE-\$	DEAD DEADNIE-6	TOIND	ז אבי וע אבי	ענעות א או ענעות א מסר מ	2 TOLNCO_	TOTAL • • • • • • • • • • • • • • • • • • •
											· · · ·		a INANDI	
EΣ	(PONENTIAL	DECLIN	E											
				8	928 \$15	.00 \$	1.65	\$33,479	\$14,731	\$48,	209	\$10,000	\$2,842	\$12,842
1996	6631	26524	2232 4973	19	893 15	. 45	1.70	76,837	33,808	110,	645	24,720	6,522	31,242
1997	5968	23872	4476	17	904 15	.91	1.75	71,228	31,340	102,	568	25,462	6,046	31,507
1998	5371	21484	4028	16	113 16	. 39	1.80	66,028	29,052	95,	080	26,225	5,604	31,830
1999	4834	19336	3626	14	502 16	. 88	1.86	61,208	26,932	88,	140	27,012	5,195	32,207
2000	4351	17402	3263	13	052 17	. 39	1.91	56,740	24,966	81,	705	27,823	4,816	32,638
2001	3916	15662	2937	11	747 17	.91	1.97	52,598	23,143	75,	741	28,657	4,464	33,122
2002	3524	14096	2643	10	572 18	. 45	2.03	48,758	21,454	70,	212	29,517	4,138	33,655
2003	3172	12686	2379	9	515 19	.00	2.09	45,199	19,888	65,	087	30,402	3,836	\$12,842 31,242 31,507 31,830 32,207 32,638 33,122 33,655 34,239 34,871 35,532 36,199 379,884 74,624 454,508
2004	2854	11418	2141	8	563 19	. 57	2.15	41,900	18,436	60,	335	31,315	3,556	34,871
2005	2569	10276	1927	1	707 20	.00	2.22	38,535	17,090	55,	625	32,254	3,278	35,532
2006	2312	9248	1734	6	936 20	.00	2.28	34,682	15,842	50,	524	33,222	2,977	36,199
S-TOT	484//	193909	30358	145	432 W	[. • • •	WT.	627,190 E0 206	2/0,081	903,	8/1	320,009	53,275	3/9,884
KLM. momit	5954	10010	2903	11	001 AV	). A 16 E	1 04	59,300 696 406	28,300	87, 001	0U0 477	09,403	5,101 50,436	/4,024 454 500
IVIAL	JZ4JI 	209124	JJJJZJ	1)/	273 \$11	.40 ¢	1.74	000,490	JU4,701	, 171 	411	330,072	50,450	4J4,J00
			A	INITAL	PRIN			CUM.	OPR CASH	FLOW		PRESEN	T WORTH PR	OFILE
ſ	PERATING	CAPI	TAL I	INT.	PAYMENT	CASH	FLOW	CASH FLO	W AFTER D	EBT D	ISC	NPV	DISC	NPV
YEAR C	ASH FLOW-S	INVE	ST-\$ 10	000-\$	1000-\$	BI	AX-S	CASH FLO BTAX-\$	REDUCT	ION RA	TE-8	BTAX-\$	RATE-%	BTAX-\$
								· •••••						
											Based	On Mid-Ye	ar Discoun	ting
	\$35,368	\$22	5,878	0.0	0.0	(\$1	90,510	) (\$190,5	10) \$35	,368	2	261,9	83 40	(\$66,329)
1996	79,403	1	0	0.0	0.0		79,403	(111,1	07) 79	,403	5	201,0	33 45	(80,031)
1997	71,061		· 0	0.0	0.0		71,061	(40,0	46) 71	,061	8	151,9	10 50	(91,574)
1998	63,251		0	0.0	0.0		63,251	23,2	04 63	,251	10	124,2	96 55	(\$66,329) (80,031) (91,574) (101,417) (109,898)
1999	55,932		· 0	0.0	0.0		55,932	79,1	37 55	,932	12	100,0	23 60	(109,898)
2000	49,057			0.0	0.0		49,067	128,2						(117,275)
2001	42,619			0.0	0.0		42,619	170,8	23 42	,619	18	42,5 27,2 (4,5 (29,6 (49.8	19 70	(123,745)
2002	36,557			0.0	0.0		36,557	207,3	80 36	,55/	20	21,2	19 15	(129, 463)
2003	30,848			0.0	0.0		30,848	230,2	28 30 00 05	,848	20	(4,5 (20 ¢	98) 8U 98) 8U	(134,550)
2004	25,464			0.0	0.0		25,464	203,0	92 23 05 20	,404 002	30	(29,0	84) 85 40) 90	(139,102) (143,200)
2005 2006	20,093 14,325			0.0 0.0	0.0 0.0		20,093 14,325	203,7	00 20 10 17	225	2.0	( / -	40, 50 AX SUMMARY	(145,200)
2008 S-TOT	523,988		5,878	0.0	0.0		98,110	230,1 200,1	10 14	, J Z J Q <b>Q R</b>	момтия		EAR	
REM.	12,981			0.0	0.0		12,981	12 9	R1 12	981			YEARS	
TOTAL		22		0.0			11,091	311 0	30         30           92         25           85         20           10         14           10         523           81         12           91         536	969				\$124,296
10100	550,505		51010	0.0	v.v	J	•			,,,,,			ST	
NE?	COST/BOE		\$/BOE	4.10	[1]	T OII	RECOV	/ACRE	BBL 1				- Mid-Yr	24.2%
	r return/b			5.65					MCF 5	,243		··		3.05
	F INCOME/B			9.75	U	T OIL	RECOV	/ACRE /ACRE-FT	BBL	9			PROD RATE	
	L ECO RATE			5.1	Ū	T GAS	RECOV	/ACRE-FT	MCF	35			BBL	52,431
	S ECO RATE			20.5									MCF	209,724
	IT PROD RA												BBL	39,323
	CLINE RATE		%	10.0				E INT					MCF	
					<b>n</b> .	INNE D	DUDNIE	T 11 M	Q 75 A	0000	111 0 01	T DEGON	זממ	52,431
EXE	PONENT - N							INT						
EXI Pro	PONENT - N DD. RISK F CHOLD RISK	ACTOR -	% 1(	0.00	Ti	NG &	EQUIP	RISK FACTOR	- % 10	0.00			MCF	

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## POTASH MINING VIABILITY REPORT

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## STEVENS & TULL, INC.

FOR

NMOCD HEARING

7/27/95

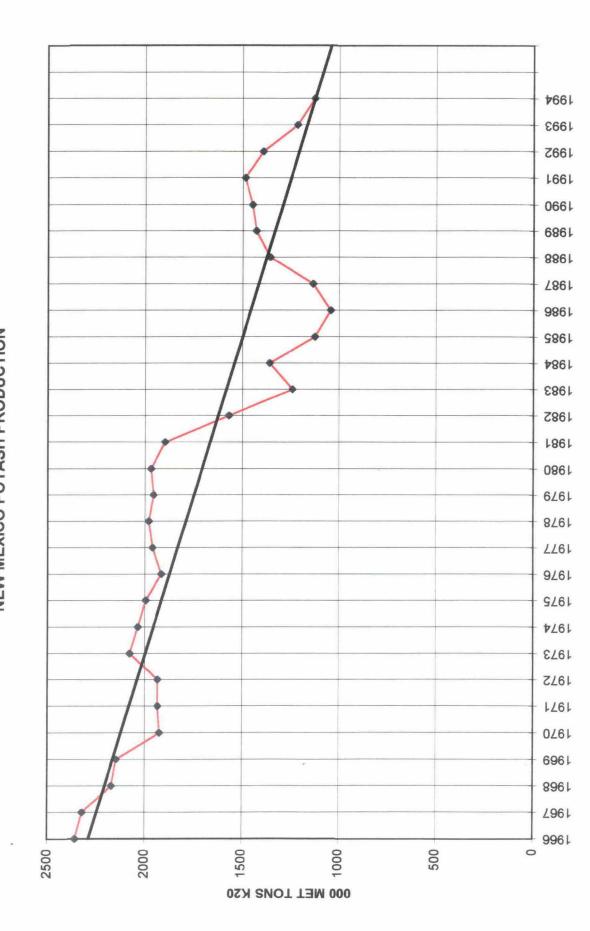
GARY L. HUTCHINSON

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GOLDEN, COLORADO

WEST 1 S PROJECT





S&T.XLSCHART 1

EXHIBIT

GARY L. HUTCHINISON

#### STEVENS TULL, INC. WEST TEAS PROJECT

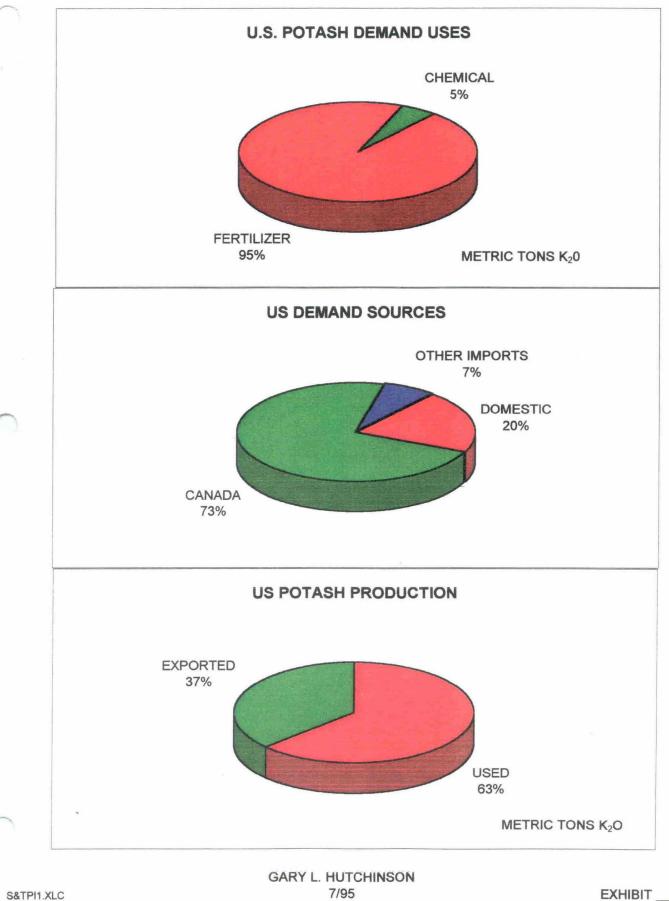
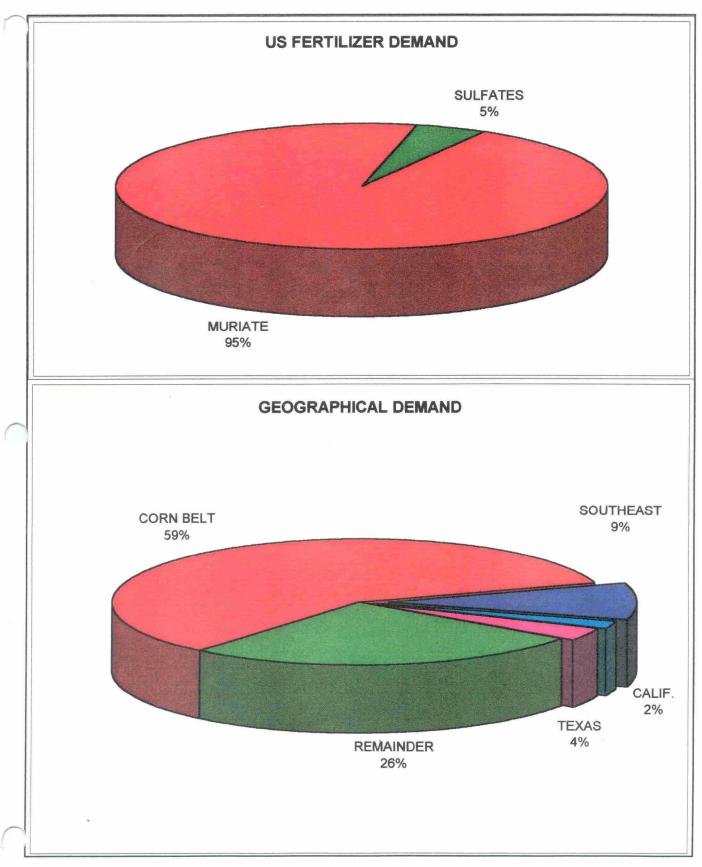


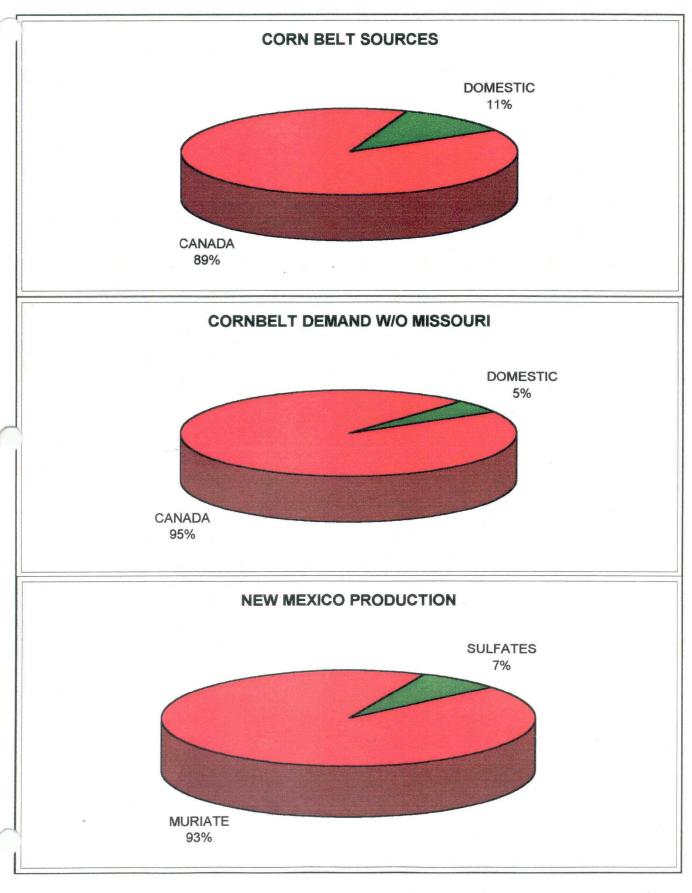
EXHIBIT \_\_\_\_

#### STEVENS TULL, INC. WEST TEAS PROJECT



S&T.XLSSHEET 2

EXHIBIT \_\_\_\_\_

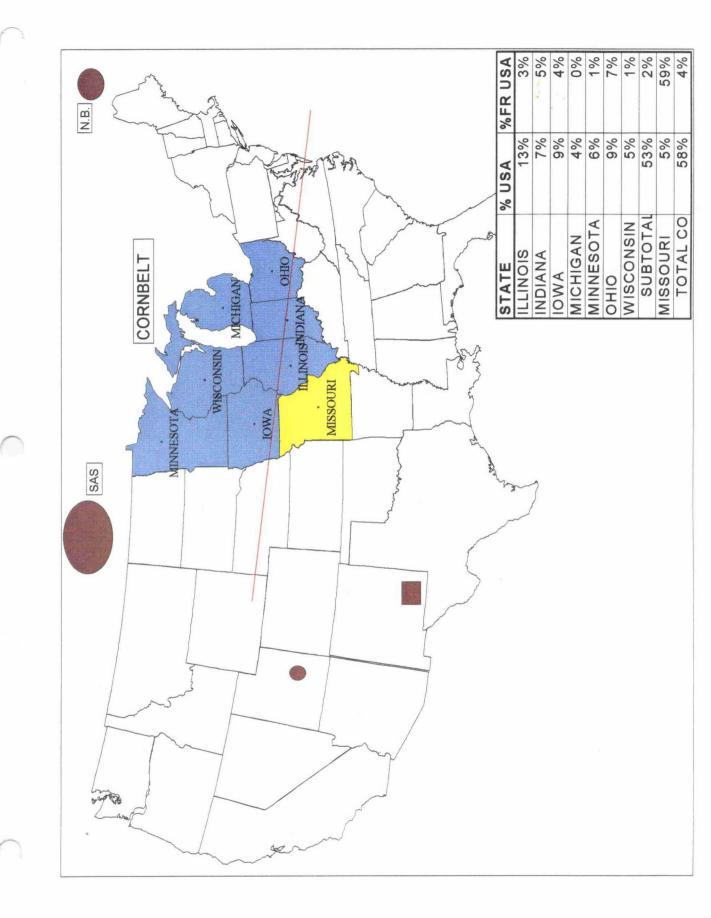


S&T.XLSSHEET3

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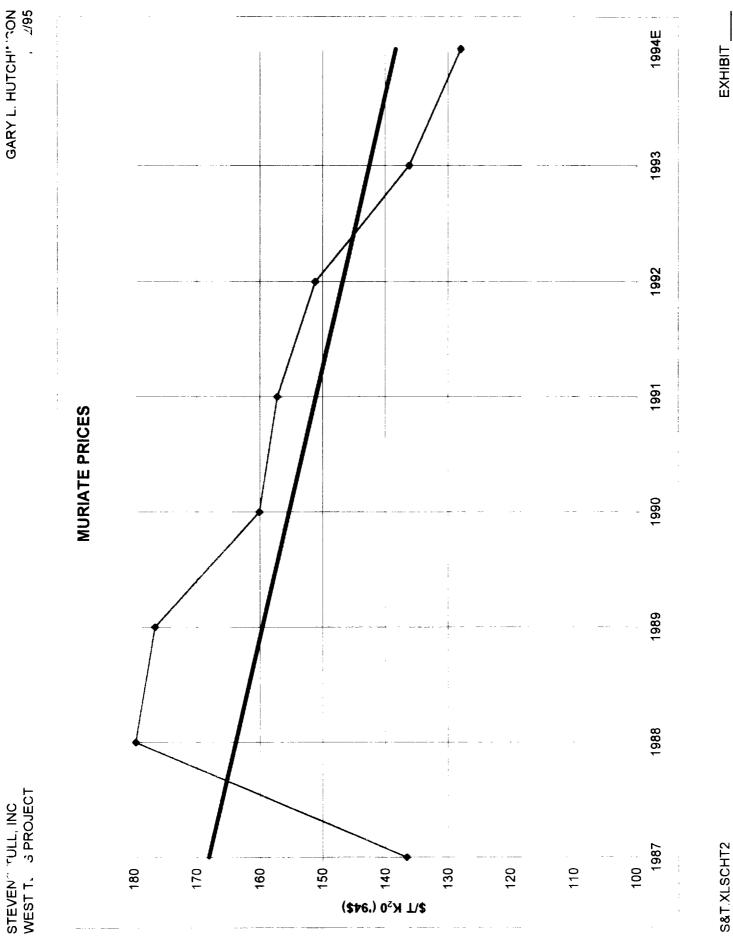
GARY L. HUT 'NSON //13/95

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#### STEVENS & TULL, INC.

#### WEST TEAS PROJECT

# GARY L. HUTCHINSON 7/95

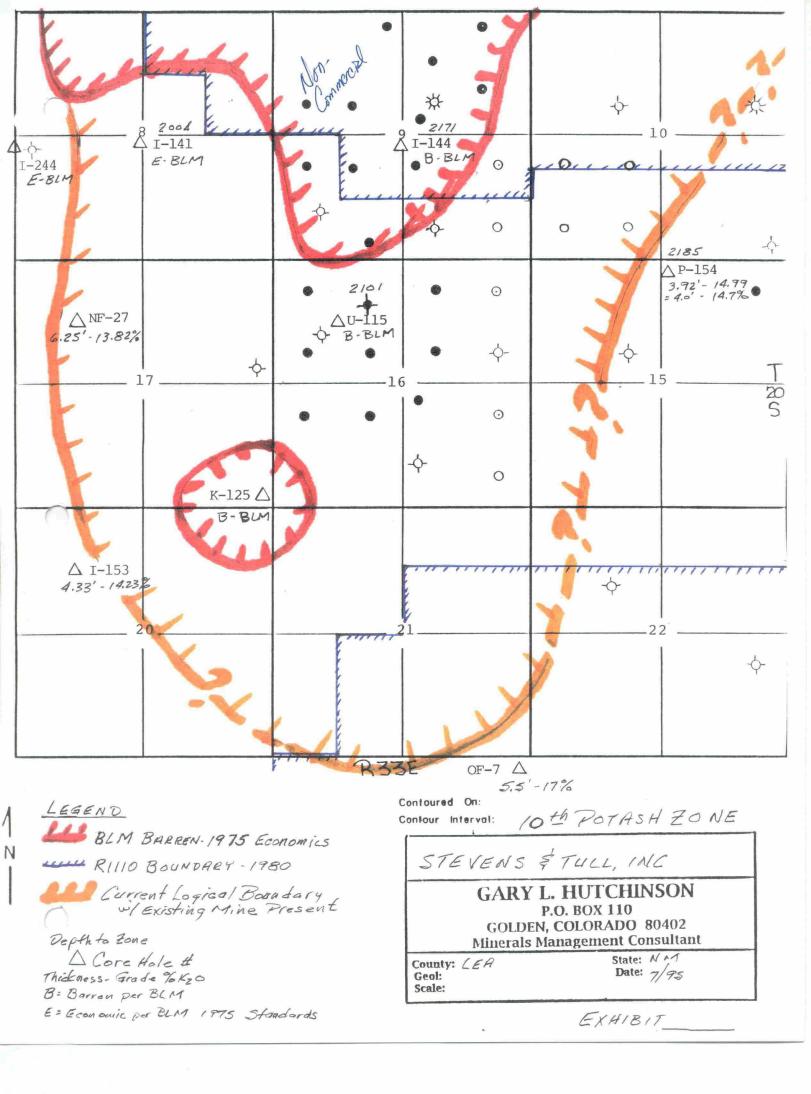
#### USA AND CANADIAN POTASH COMPARISON

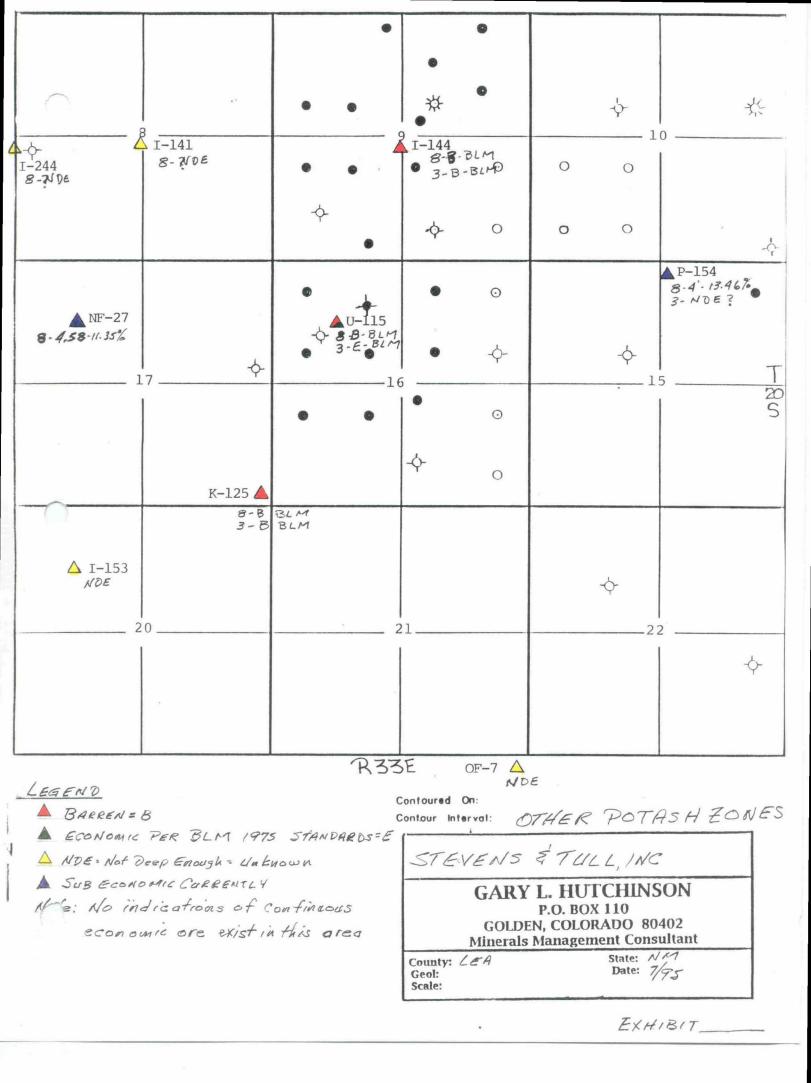
1994 STATISTICS	USA	CANADA
PERCENT OF WORLD PRODUCTION	6.5%	348
PERCENT OF WORLD RESERVES	< 18	478
PERCENT OF WORLD RESOURCE	1.5%	57%

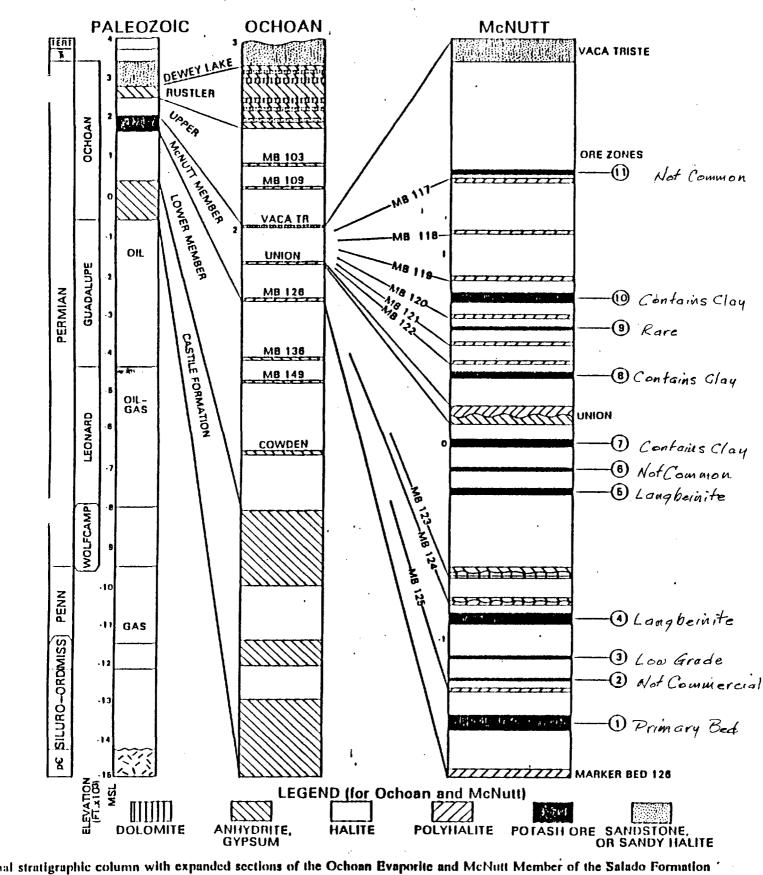
#### NEW MEXICO AND CANADIAN MURIATE PRODUCTION COMPARISON

	NEW MEXICO	CANADA
1993 MURIATE PRODUCTION (000TONS $K_2O$ )	1029	6850
PRICE FOB MINE	\$124	\$100
CASH COSTS PER TON MINED AND MILLED	± \$14	± \$11
GRADES MINED (%K <sub>2</sub> O)	<15%	>25%
PRODUCTION CAPACITY (MILLION METRIC TONS/YEAR)	1.2	12
ESTIMATED MILL LOSS	20%	12%
COMPARATIVE MINING RATIO	2.27	1.00

IMCF 0 \* -\$ 长 10 Å 1−141 X I-144 I-244 0 0 0 0 0 0 -0 △P-154 11155 HEM ¢ & U-115 0 ∧ NF-27 -0-RAS  $\odot$ NMPC -0-0 K-125 △ I-153 20 R33E  $OF-7 \Delta$ LEGEND Contoured On: LEASED STATE LAND POLOE UNLEASED USALAND D Contour Interval: POTASH LEASE STATUS 1 STEVENS & TUCL, INC. Ν GARY L. HUTCHINSON P.O. BOX 110 GOLDEN, COLORADO 80402 **Minerals Management Consultant** State: NM Date: 7/95 County: LEA Geol: Scale: EXHIBIT







(after Orlswold, 1982)

A CARACTER STORE

GARY L. HUTCHINSON P. O. Box 110 Golden, CO 80402-0110

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