

BEFORE THE INDUSTRIAL COMMISSION  
OF THE STATE OF NORTH DAKOTA

CASE NO. 7053  
ORDER NO. 8229

IN THE MATTER OF A HEARING  
CALLED ON A MOTION OF THE  
COMMISSION TO CONSIDER THE  
TEMPORARY SPACING FOR THE  
DEVELOPMENT OF AN OIL AND/OR GAS  
POOL DISCOVERED BY THE LYCO  
OPERATING COMPANY #25-2  
PLUMER-LUNDQUIST WELL, LOCATED IN  
THE NW/4 NE/4 OF SECTION 25,  
T.161N., R.99W., DIVIDE COUNTY,  
NORTH DAKOTA, AND ENACT SUCH  
SPECIAL FIELD RULES AS MAY BE  
NECESSARY.

TEMPORARY ORDER OF THE COMMISSION

THE COMMISSION FINDS:

(1) This cause came on for hearing at 9:00 a.m. on the 22nd day of April, 1998.

(2) Industrial Commission Order No. 8014 established the SE/4 of Section 24 and the NE/4 of Section 25, Township 161 North, Range 99 West, Divide County, North Dakota as a 320-acre drilling unit for the purpose of drilling a Red River test well, the Plumer-Lundquist #25-2. All owners in the 320-acre drilling unit voluntarily pooled their interests for the development of the unit. The well discovered the Burg-Red River Pool.

(3) Geological and engineering evidence presented to the Commission relative to the matter of well spacing indicates that the Burg-Red River Pool, as classified and defined in this order, should be developed on a pattern of one well to 320 acres in order to drain efficiently the recoverable oil from said pool, assure rapid development, avoid the drilling of unnecessary wells, and prevent waste in a manner that will protect correlative rights.

(4) Temporary 320-acre spacing in the Red River Pool in this field will result in the efficient and economical development of the field as a whole and will operate so as to prevent waste and provide maximum ultimate recovery, will avoid the drilling of unnecessary wells, and will protect correlative rights.

(5) The unrestricted flaring of gas produced from the Burg-Red River Pool could be considered waste, and in order to minimize such, production from the pool should be restricted until the wells producing therefrom are connected to a gas gathering and processing facility.

(6) Certain special field rules are necessary to prevent waste and protect against the contamination and pollution of surface lands and fresh waters.

IT IS THEREFORE ORDERED:

(1) The following described tracts of land in Divide County, North Dakota, be, and the same are hereby designated the Burg Field:

TOWNSHIP 161 NORTH, RANGE 99 WEST, 5TH PM  
THE NE/4 OF SECTION 25, AND THE SE/4 OF SECTION 24,

together with those additional quarter sections or governmental lots corresponding thereto as may be proven productive by wells drilled on lands within one mile of the boundaries of the field as set forth above, provided further that such extensions of the field boundaries shall include only sufficient acreage to form a spacing unit for such wells, and any intervening lands.

(2) The Burg-Red River Pool be, and the same is hereby defined as that accumulation of oil and gas found in the interval from below the base of the Stony Mountain Formation to above the top of the Winnipeg Formation within the limits of the field as set forth above.

(3) Effective this date, the temporary spacing for the development of the Burg-Red River Pool be, and the same is hereby set at one well to 320 acres.

(4) All wells hereafter drilled to said pool shall be located not less than 660 feet from a spacing unit boundary nor closer than 1980 feet to a well permitted to or producing from the pool. Wells presently permitted to or producing from the pool that do not conform to this spacing pattern shall be considered exceptions.

(5) The NE/4 of Section 25 and the SE/4 of Section 24, Township 161 North, Range 99 West, Divide County, North Dakota is designated a 320-acre spacing unit for the Burg-Red River Pool.

(6) Spacing units in the Red River Pool in the Burg Field shall consist of two adjacent quarter sections, or governmental lots corresponding thereto within the same section. The configuration of spacing units, either standup or laydown, shall be determined by the location of the first well in the section, such that the aforesaid well will be nearest to the center of the spacing unit. Spacing units for wells being equi-distant from the mid-section lines shall be designated by the operator; however, the Commission shall have continuing jurisdiction, and in the event that spacing units hereafter formed by this policy do not coincide with the geological and physical nature of the reservoir, the Commission may alter specific spacing units upon application by any interested party, after due notice and hearing.

(7) No well shall be drilled hereafter in the Burg-Red River Pool except in conformity with the regulations above without special order of the Commission after due notice and hearing.

(8) The following rules concerning the casing, tubing and equipping of the wells shall apply to the subsequent drilling and operation of wells in the Burg-Red River Pool:

- (a) The surface casing shall consist of new or reconditioned pipe that has been previously tested to 1000 pounds per square inch. The casing shall be set and cemented at a point not less than 50 feet below the base of the Fox Hills

Formation. Sufficient cement shall be used to fill the annular space outside the pipe to the surface of the ground, or the bottom of the cellar, and sufficient scratchers and centralizers shall be used to assure a good cement job. Cement shall be allowed to stand a minimum of 12 hours before drilling the plug or initiating tests. The quality of cement shall conform to the standards provided under North Dakota Administrative Code (NDAC) Section 43-02-03-21;

- (b) The producing or oil string shall consist of new or reconditioned pipe that has been previously tested to 2000 pounds per square inch. Casing shall be set and cemented at a point not higher than the top of the producing formation, or at a point approved by the Director. Sufficient cement shall be used and applied in such manner as to adequately protect and isolate all formations containing oil and/or gas, protect the pipe through salt sections encountered, and to isolate the Dakota-Lakota Series. The cement shall be allowed to stand a minimum of 15 hours before drilling the plug or initiating tests. The quality of cement shall conform to the standards provided under NDAC Section 43-02-03-21. After cementing, the casing shall be tested by application of pump pressure of at least 2000 pounds per square inch. If, at the end of 30 minutes this pressure has dropped 150 pounds per square inch or more, the casing shall be repaired. Thereafter, the casing shall again be tested in the same manner. Further work shall not proceed until a satisfactory test has been obtained;
- (c) All well-head fittings and connections shall have a working pressure in excess of that to which they are expected to be subjected; and,
- (d) All wells shall be equipped with tubing; all tubing shall be of sufficient internal diameter to allow the passage of a bottom hole pressure gauge for the purpose of obtaining bottom hole pressure measurements.

(9) The gas-oil ratio of each well shall be measured during the months of May and November, and the reservoir pressure of flowing wells shall be measured in the months of May and November, and in pumping wells when the rods are pulled but at least once annually and reported to the Commission within 15 days following the end of the month in which they are determined. Pressure measurements shall be made at or adjusted to a subsea datum of 9410 feet after the well has been shut in for 48 hours. All gas-oil ratios and reservoir pressure determinations shall be made under the supervision of and by methods approved by the Director. The Director is authorized to waive these requirements if the necessity therefor can be demonstrated to his satisfaction.

(10) No salt water, drilling mud, crude oil or waste oil shall be stored in pits in this field, except in an emergency, and approved by the Director.

(11) For the purposes of division of production to owners of interests in spacing units established by this order, and proven productive prior to the date hereof, this order shall be retroactive to the date of first production.

(12) All wells in the Burg-Red River Pool shall be allowed to produce at an unrestricted rate for a period of 60 days commencing on the first day oil is produced through well-head equipment into tanks from the ultimate producing interval after casing has been run; after that, oil production from such wells shall not exceed an average of 200 barrels per day for a period of 60 days; after that, oil production from such wells shall not exceed an average of 150 barrels per day for a period of 60 days, thereafter, oil production from such wells shall not exceed an average of 100 barrels of oil per day; if and when such wells are connected to a gas gathering and processing facility the foregoing restrictions shall be removed, and the wells shall be allowed to produce at a maximum efficient rate.

(13) If the flaring of gas produced with crude oil from the Burg-Red River Pool causes, or threatens to cause, degradation of ambient air quality, production from the pool shall be further restricted.

(14) This order shall cover all of the Burg-Red River Pool, common source of supply of crude oil and/or natural gas as herein defined, and shall continue in full force and effect until the 30th day of November, 1999. That the proper spacing for the pool will be considered by the Commission on or before the regularly scheduled meeting in October, 1999.

Dated this 13th day of May, 1998.

INDUSTRIAL COMMISSION  
STATE OF NORTH DAKOTA

/s/ Edward T. Schafer, Governor

/s/ Heidi Heitkamp, Attorney General

/s/ Roger Johnson, Commissioner of Agriculture

BEFORE THE INDUSTRIAL COMMISSION OF THE STATE OF NORTH DAKOTA

ON THE MATTER OF A MOTION OF THE COMMISSION TO CONSIDER THE TEMPORARY SPACING FOR THE DEVELOPMENT OF AN OIL AND/OR GAS POOL DISCOVERED BY THE LYCO OPERATING COMPANY PLUMER-LUNDQUIST #25-2 WELL LOCATED IN THE NW/4 OF THE NE/4 OF SECTION 25, TOWNSHIP 161 NORTH, RANGE 99 WEST, 5<sup>TH</sup> P.M., DIVIDE COUNTY, NORTH DAKOTA, AND ENACT SUCH SPECIAL FIELD RULES AS MAY BE NECESSARY.

CASE NO. 7053

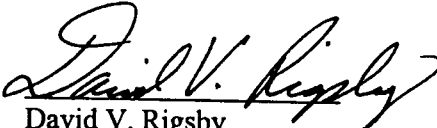
AFFIDAVIT OF DAVID V. RIGSBY

LYCO OPERATING COMPANY, 6688 North Central Expressway, Suite 1600, Dallas, Texas 75206-3927:

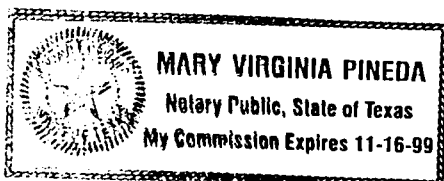
STATE OF TEXAS       §  
COUNTY OF DALLAS   §

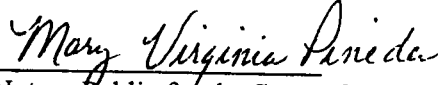
David V. Rigsby being first duly sworn and says:

1. I am Landman for Lyco Energy Corporation and reside in Dallas, Texas. I have had my qualifications accepted as those of an expert in the field of petroleum land management by the North Dakota Industrial Commission.
2. Exhibit "1" as contained in the Exhibit Packet for Case No. 7053 is a land plat reflecting the area proposed to be spaced for production of oil and associated natural gas from the Red River formation and was prepared under my direction and it is true and correct to the best of my knowledge and belief.
3. Exhibit "1-A" as contained in the Exhibit Packet for Case No. 7053 was prepared from detailed mineral and leasehold information from the records of Divide County, North Dakota by landmen under my direction. Mineral interest and leasehold ownership within the SE/4 of Section 24 and the NE/4 of Section 25, Township 161 North, Range 99 West, 5th P.M., Divide County, North Dakota, are set out in this Exhibit. As indicated on Exhibit "1", the ownership within this proposed spacing unit is not common.

By:   
David V. Rigsby  
Landman

SUBSCRIBED AND SWORN BEFORE ME, A NOTARY PUBLIC FOR THE STATE OF TEXAS  
THIS 17<sup>th</sup> DAY OF APRIL, 1998.

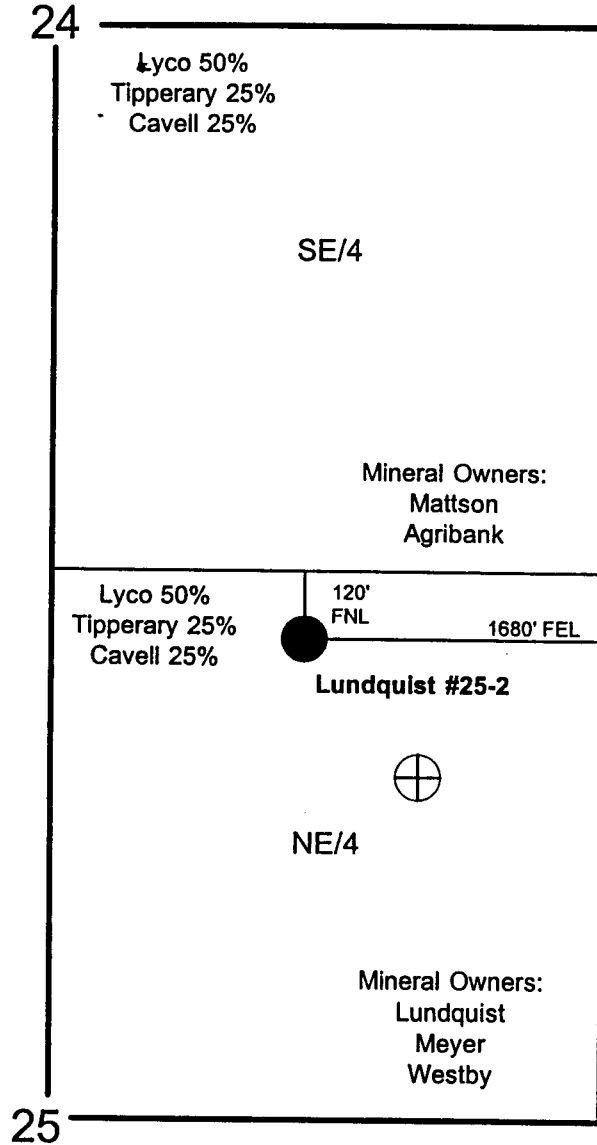


By:   
Notary Public for the State of Texas  
Residing at Dallas County  
My Commission Expires: 11-16-99

# EXHIBIT "1"

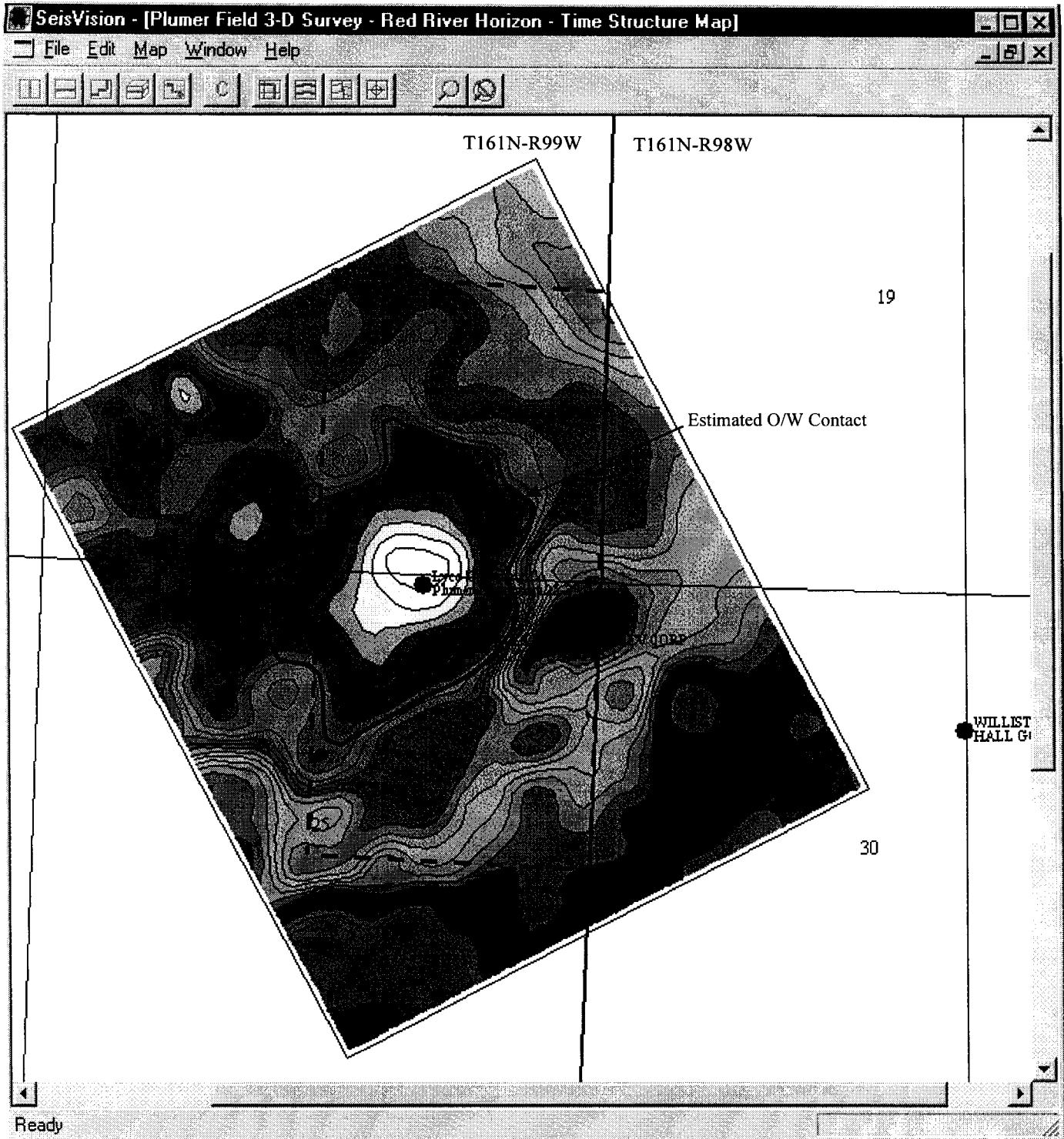
3/2/98

## CASE #7053 LAND PLAT Plumer-Lundquist #25-2 Divide County, North Dakota



Township 161 North, Range 99 West

The above plat is not to scale.



<b>LYCO ENERGY CORPORATION</b>	
<b>PLUMER FIELD</b>	
Divide County, North Dakota	
<b>Red River Formation Time Structure Map</b>	
Case #7053 Exhibit #2	
Geology: Mike Lewis	April, 1998
C.I. = 1 ms (approximately 6 feet)	Scale 1" = 1,500'

# PLUMER FIELD CROSS SECTION

LYCO OPERATING CO  
PLUMER - LUNDQUIST  
25-2

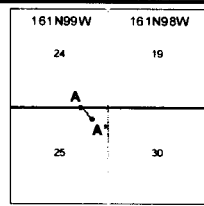
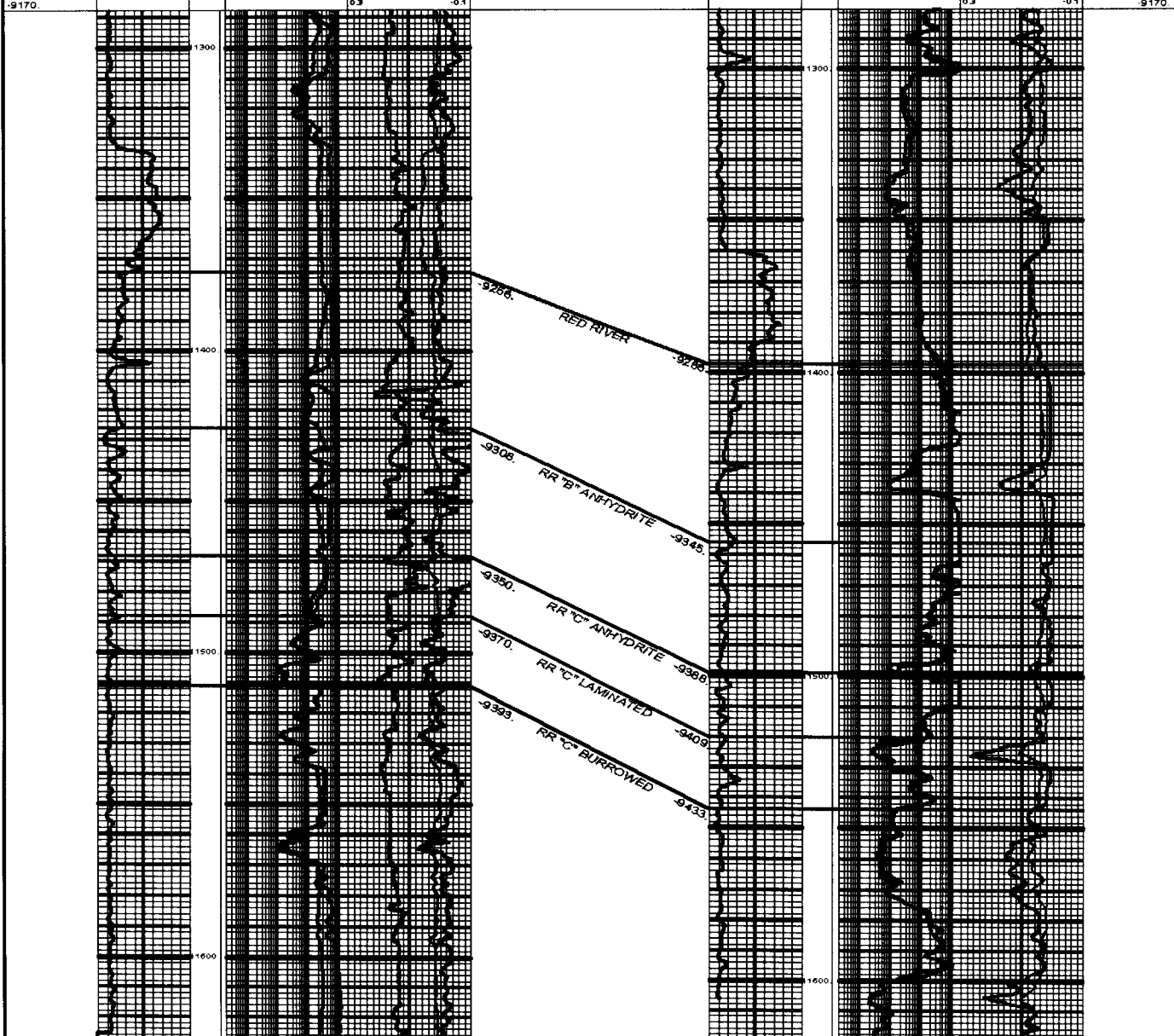
COLUMBIA GAS DEV. CORP.  
LUNDQUIST  
25-1

A

A'

Correlation		Resistivity		Porosity	
GR		ResB		PEF	
0	75	0.2	2000	0	10
BP		ResM		PHIA	
-100	90	0.2	2000	0.3	-0.1
CALI		ResD		PHID	
6	16	0.2	2000	0.3	-0.1
				PHIU	
				0.3	-0.1
				PHIB	
				0.3	-0.1

Correlation		Resistivity		Porosity	
GR		ResB		PEF	
0	75	0.2	2000	0	10
BP		ResM		PHIA	
-100	90	0.2	2000	0.3	-0.1
CALI		ResD		PHID	
6	16	0.2	2000	0.3	-0.1
				PHIU	
				0.3	-0.1
				PHIB	
				0.3	-0.1



LOCATION MAP

LYCO ENERGY CORPORATION  
PLUMER FIELD  
DIVIDE CO., NORTH DAKOTA  
**RED RIVER STRUCTURAL  
CROSS SECTION**  
CASE #7053    APRIL 1998    EXHIBIT #3



BEFORE THE INDUSTRIAL COMMISSION OF THE STATE OF NORTH DAKOTA

ON THE MATTER OF A MOTION OF THE COMMISSION TO CONSIDER THE TEMPORARY SPACING FOR THE DEVELOPMENT OF AN OIL AND/OR GAS POOL DISCOVERED BY THE LYCO OPERATING COMPANY PLUMER-LUNDQUIST #25-2 WELL LOCATED IN THE NW/4 OF THE NE/4 OF SECTION 25, TOWNSHIP 161 NORTH, RANGE 99 WEST, 5<sup>TH</sup> P.M., DIVIDE COUNTY, NORTH DAKOTA, AND ENACT SUCH SPECIAL FIELD RULES AS MAY BE NECESSARY.

CASE NO. 7053

AFFIDAVIT OF BRIAN J. WRIGHT


LYCO OPERATING COMPANY, 6688 North Central Expressway, Suite 1600, Dallas, Texas 75206-3927:

STATE OF TEXAS §  
COUNTY OF DALLAS §

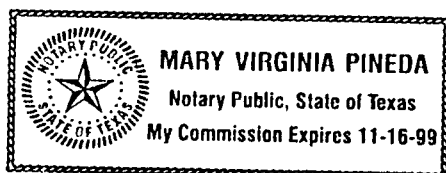
Brian J. Wright being first duly sworn and says:

1. I am Petroleum Engineer for Lyco Energy Corporation and reside in Dallas, Texas. I have not testified before the North Dakota Industrial Commission. I have been previously qualified as an expert witness in the field of petroleum engineering by the state of Montana. Attached is a resume of my work history and education.
2. Exhibit "4" is the pertinent reservoir data for the Plumer-Lundquist #25-2 well.
3. Exhibit "5" is a chart reflecting daily production from the Red River formation.
4. Exhibit "6" is a chart reflecting the estimated oil in place for the Plumer-Lundquist #25-2 well.
5. Exhibit "7" is a well bore diagram for the Plumer-Lundquist #25-2 well.
6. Exhibit "8" is the economics for the Plumer-Lundquist #25-2 well.
7. Exhibit "9" is the economics of an additional Red River well.
8. Exhibits "4-9" as contained in the Exhibit Packet for Case No. 7053 were prepared by me or under my supervision and control and are true and correct to the best of my knowledge and belief.

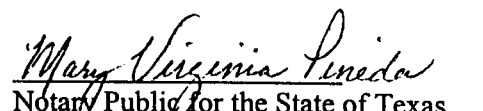
By:

  
Brian J. Wright  
Engineer

SUBSCRIBED AND SWORN BEFORE ME, A NOTARY PUBLIC FOR THE STATE OF TEXAS THIS 17th DAY OF APRIL, 1998.



By:

  
Notary Public for the State of Texas  
Residing in Dallas County  
My Commission Expires: 11-16-99

**Synopsis of Resume of:  
BRIAN J. WRIGHT**

**3812 Matterhorn Drive  
Plano, Texas 75075  
(972) 519-0659**

### **EMPLOYMENT**

- 1997-** **DISTRICT ENGINEER, WILLISTON BASIN**  
Lyco Operating Company  
Dallas, TX
- 1990-1997** **TECHNICAL SUPPORT MGR., PETROLEUM ENGINEERING SOFTWARE**  
Dwights Software & Systems Consulting (DSSC)  
Richardson, TX
- 1989-1990** **PRODUCT MANAGER, NATURAL GAS NOMINATIONS**  
Dwight's EnergyData, A SoftSearch Company  
Denver, CO
- 1987-1989** **PETROLEUM ENGINEERING CONSULTANT**  
Littleton, CO
- 1980-1987** **VP/MANAGER OF OPERATIONS**  
Eastern American Energy Corporation  
Aurora, CO  
Glenville, WV
- 1977-1980** **SENIOR PETROLEUM ENGINEER**  
Inexo Oil Company  
Denver, CO
- 1973-1977** **PETROLEUM/RESERVOIR ENGINEER**  
Amoco Production Company  
Denver, CO  
Anchorage, AK  
Powell, WY

### **EDUCATION**

- 1969-1973** **UNIVERSITY OF UTAH**  
Salt Lake City, UT

**BRIAN J. WRIGHT**

3812 Matterhorn Drive  
Plano, Texas 75075  
(972) 519-0659

Amplified Resume

**JULY 1997-PRESENT**  
**LYCO ENERGY CORPORATION, DALLAS, TEXAS**  
**DISTRICT ENGINEER, WILLISTON BASIN**

Responsible for all aspects of oil and gas operations including drilling, completion, production, water flood, maintenance, stimulation and abandonment of wells. Areas of responsibility is the Williston Basin including Montana and North Dakota. Worked in the capacity as a drilling, completion, production and reservoir engineer and was responsible for the supervision and engineering of all oil and gas field activities. Drilled and completed both vertical and horizontal wells in Montana, and North Dakota.

**NOVEMBER 1990-JULY 1997**  
**DWIGHTS SOFTWARE & SYSTEMS CONSULTING (DSSC), RICHARDSON, TEXAS**  
**TECHNICAL SUPPORT MANAGER - PETROLEUM ENGINEERING SOFTWARE PRODUCTS**

Provided technical petroleum engineering assistance to programmers developing petroleum economics, production engineering, and reserve evaluation programs. Provided technical support to clients on Reserve Analysis Software, Nodal Analysis, Submersible Pump and Beam Lift Technical Engineering Application Manager Software. Conducted in house and remote instruction to current and potential users of DSSC Petroleum Engineering Software. Work daily with WordPerfect, LOTUS, EXCEL, Paradox, and Dwights' Petroleum Engineering Software in both DOS and WINDOWS environments, and on PC and NOVEL Networks. Daily contact with industry engineers and major service engineers regarding software application and operation.

**APRIL 1989-NOVEMBER 1990**  
**DWIGHT'S A SOFTSEARCH COMPANY, DENVER, COLORADO**  
**PRODUCT MANAGER, NATURAL GAS NOMINATIONS SYSTEMS**

Product Manager for an automated nominations management system. Provided technical assistance in developing a interactive voice response system for receiving natural gas nominations. Supervised the development of the computer software and adaptation to individual client's needs. Supervised installation and training of personnel for operating the systems.

**MARCH 1987-APRIL 1989**  
**LITTLETON, COLORADO**  
**PETROLEUM ENGINEERING CONSULTANT**

Evaluated leases, reservoirs and operations on oil and gas properties in the Mid Continent and the Rocky Mountains. Operated the business on a PC and became proficient with an accounting system (ROUGHNECK), payroll and taxes, word processing (WordPerfect, WordStar, PCWRITE), spreadsheet (LOTUS 123), and economic evaluations (RAMS-Reserve analysis and MANAGEMENT SYSTEM, and EnPAK). Field consulted as completions engineer in California, Colorado, and Wyoming. Natural gas consultant interviewing natural gas industry personnel from producers to end users.

**BRIAN J. WRIGHT**

3812 Matterhorn Drive  
Plano, Texas 75075  
(972) 519-0659

Amplified Resume (Page 2)

**NOVEMBER 1980-MARCH 1987  
EASTERN AMERICAN ENERGY CORPORATION  
AURORA, COLORADO AND GLENNVILLE, WEST VIRGINIA  
MANAGER OF OPERATIONS**

Responsible for all exploration, drilling and production operations in the Western Region including California, The Rockies and Mid Continent. Also responsible for exploration and completions in the Appalachian Basin of West Virginia. Supervised the land, exploration, and production departments including 15 employees and 10 contract personnel. Responsible for the development of drilling prospects and the drilling of 100 exploration and development wells. Supervised and engineered the operations of over 700 producing wells, in primary, secondary and tertiary stages of recovery. Negotiated contracts with peers, customers and contractors. Reduced operating costs by 20% over a two year period. Reduced drilling costs in a Wyoming field by 37% compared to the offset operator. Prepared reservoir studies on company operated fields. Corporation moved headquarters to West Virginia.

**AUGUST 1977-NOVEMBER 1980  
INEXCO OIL COMPANY, DENVER, COLORADO  
SENIOR PETROLEUM ENGINEER**

Responsible for all aspects of oil and gas operations including drilling, completion, production, water flood, maintenance, stimulation and abandonment of wells. Areas of responsibility included the Powder River and Williston Basins of the Rocky Mountains, and the Mid Continent area. Worked in the capacity as a drilling, completion, production and reservoir engineer and was responsible for rig supervision. Initiated communication between field personnel and engineers. Drilled, or caused to be drilled, 25 wells in Montana, Wyoming, and North Dakota. Involved in Unitization Hearings and negotiations. Resigned to accept more responsibilities and challenges.

**OCTOBER 1976-AUGUST 1977  
AMOCO PRODUCTION COMPANY, DENVER, COLORADO  
RESERVOIR ENGINEER**

Attended Amoco's Reservoir Engineering School in Chicago and Tulsa. Prepared reservoir studies on three Wyoming fields including Salt Creek, Elk Basin, and Cottonwood Creek. These studies helped to initiate infill drilling at Salt Creek to 4.4 Acre spacing. Resigned to accept a more challenging opportunity.

**BRIAN J. WRIGHT**

3812 Matterhorn Drive  
Plano, Texas 75075  
(972) 519-0659

Amplified Resume (Page 3)

**JUNE 1973-OCTOBER 1976**

**AMOCO PRODUCTION COMPANY, ANCHORAGE, ALASKA/POWELL WYOMING  
PETROLEUM AND MAINTENANCE ENGINEER**

Engineer in the mechanical section of the engineering department for four offshore platforms in the Cook Inlet of Alaska. Responsibilities included all production facilities as well as the life support systems, platform integrity, erosion and corrosion. Worked with turbine generators and injection pumps, hydraulic downhole equipment and associated surface facilities. Drilling engineer on Platform Dillon. Worked in all areas of Petroleum Engineering including drilling, completion, stimulating, evaluating, water flood, and producing oil and gas wells in Alaska and Wyoming. Transferred to the Denver Regional Office.

#### **SCHOOLS AND ORGANIZATIONS**

University of Utah, Salt Lake City, Utah, BS Geological Engineering  
Reservoir Engineering School, Amoco Production Company  
Joe Chastain's Artificial Lift School  
Ryke's Well Completion and Workover School  
Various Service Industry sponsored seminars and school

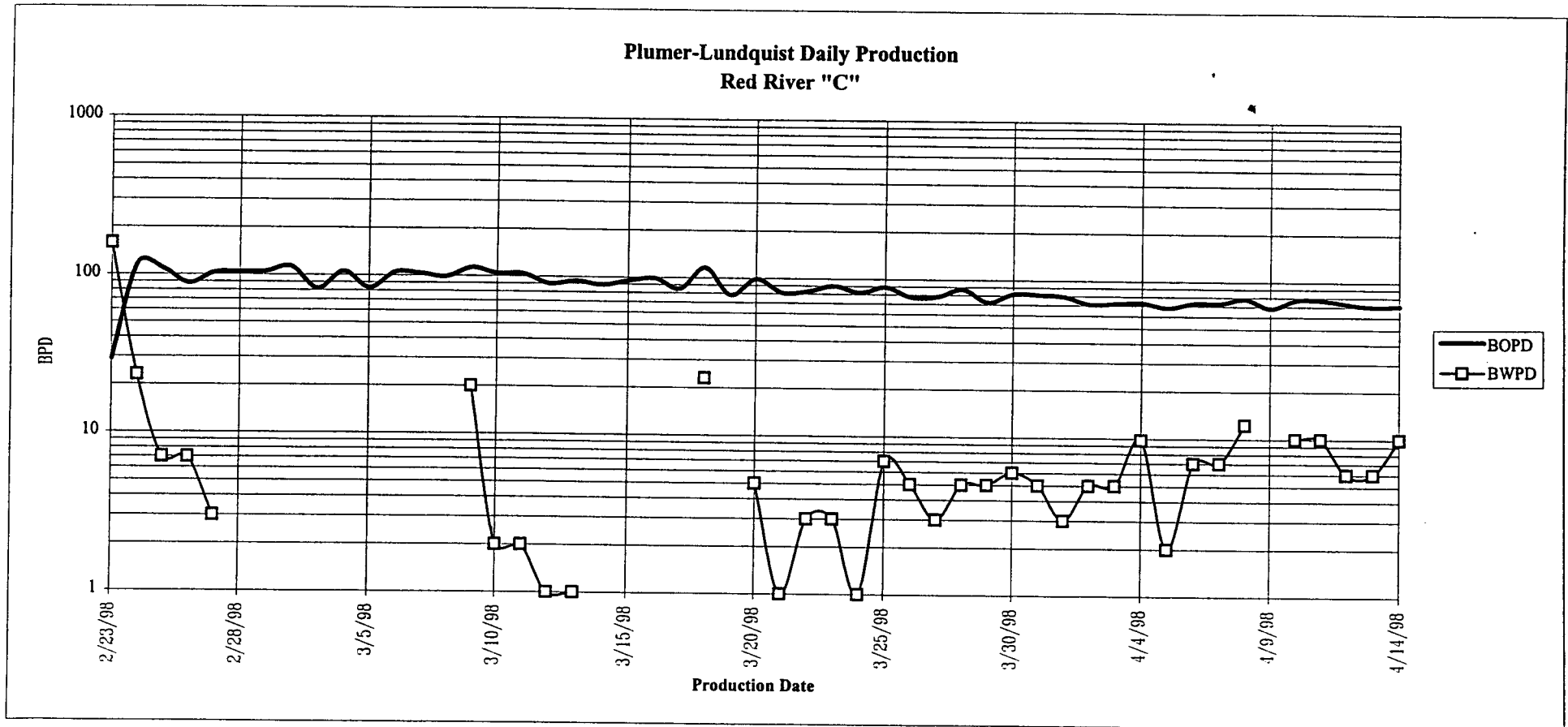
**LycO Operating Company  
Plumer Lundquist #25-2 Well  
NW/NE Sec. 25-T161N-R99W  
Divide County, North Dakota**

**Case Number 7053**

**Exhibit 4**

**Pertinent Reservoir Data**

<u>Parameter</u>	<u>Plumer-Lundquist #25-2 Red River</u>	<u>Comments</u>
Formation	Red River "C"	
Aerial extent	Approximately 196 acres	From seismic analysis
Initial reservoir pressure	5348 psi calculated	Wisco BHP Buildup Test 1/13/98 5,225psi @ 11,267'
Production data	See attached daily production curve	
Gravity of oil	43.9 API @ 60 degrees	Sathe Analytical Lab Analysis 2/13/98
GOR	1670 SCFB	From Double EE GOR Test 2/14/98
Porosity of net pay	10.0 %	Log analysis
Thickness of net pay	17 Feet	Log analysis
Permeability	5.2 Md.	Wisco BHP Buildup Test 1/13/98
Water Saturation,	30 %	Log analysis
Rw	0.055 ohm-meters @ 77 degrees	Sathe Analytical Lab Analysis 1/26/98
Formation Volume Factor	2.0	Standing's Correlation from GOR test (actual value is possibly 1.2)
Pour Point of oil	13 degrees F	Sathe Analytical Lab Analysis 2/13/98
Reservoir temperature	244.6 degrees F	Wisco BHP Buildup Test 1/13/98, 239.2 degrees F @ 11,267'
Reservoir drive mechanism	Solution Gas with possible water drive	
Bubble Point pressure	4500 psi	Standing's Correlation
Estimated Drainage Area	95 acres	Seismic structure, down dip well
Estimated OOIP	438,521 BO	See Exhibit 6
Expected recovery	109,630 BO	See Exhibit 6
Disposition of all fluids	Oil sold to Murphy Oil , Water disposed at Balco Three Disposal in Sec 24- T163N-R99W Divide County, ND	



**LycO Operating Company  
Plumer-Lundquist #25-2 Well  
NW/NW Sec. 25-T161N-R99W  
Divide County, North Dakota**

Case Number 70-53

Exhibit 6

**Estimated Original Oil in Place**

$$\text{Original Oil in Place} = \frac{7758 (O) h (A) (1-Sw)}{Bo}$$

**Estimated Reserves:**

A	Acres:	95 acres
h	Pay Thickness:	17 feet
	Acre Feet:	1,615
O	Porosity:	10%
So	Oil Saturation:	70%
Sw	Water Saturation:	30%
Boi	Reservoir Volume factor	2.00

$$\text{Original Oil in Place(BO)} = \frac{(7758 (.10) (17) (95) (.7))}{2.0} = 438,521 \text{ BO}$$

Recoverable Oil = Original Oil in Place x Recovery Factor

Recovery Factor: 25% Estimated

**Recoverable Oil: 109,630 Barrels of Oil**

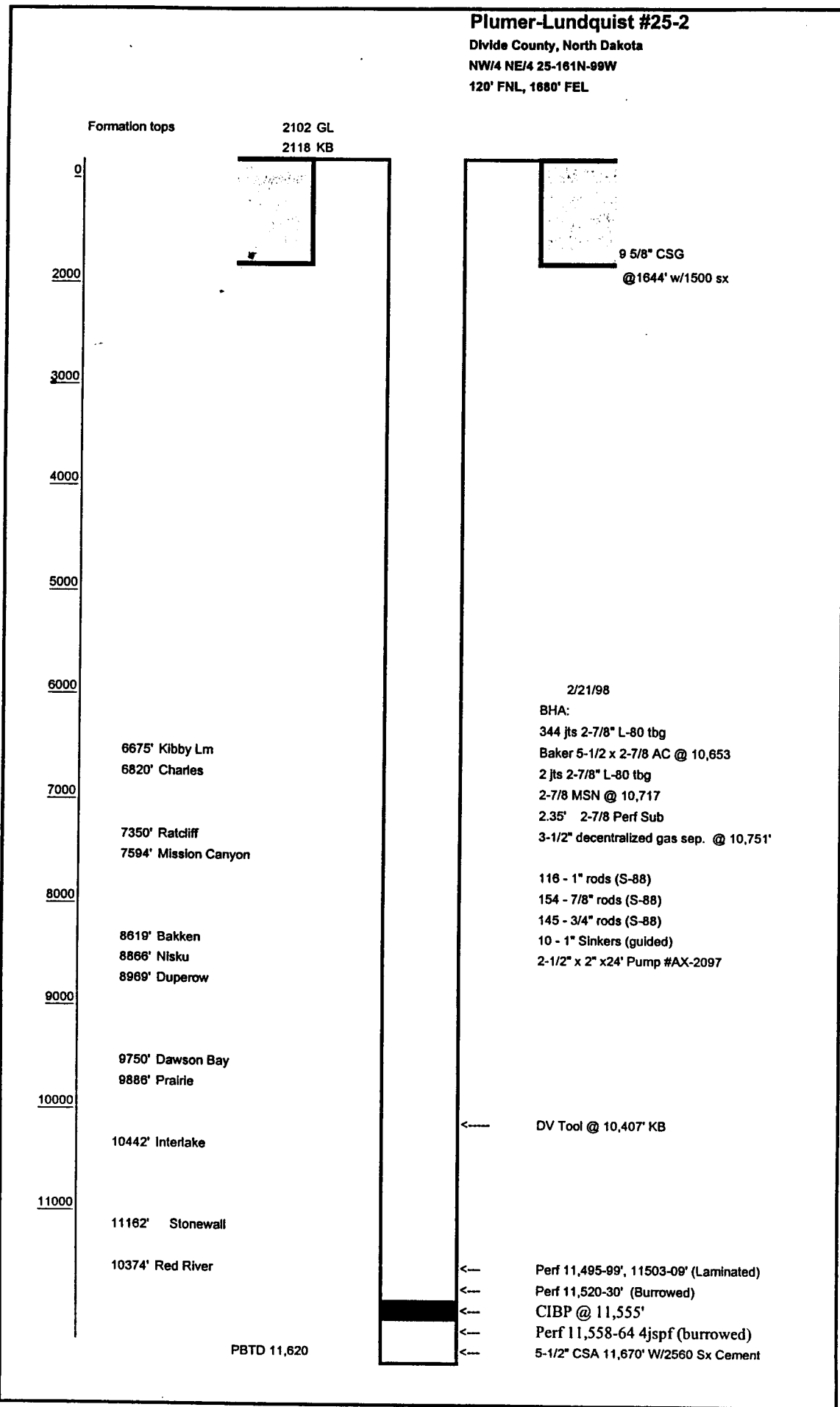


### Plumer-Lundquist #25-2

Divide County, North Dakota

NW/4 NE/4 25-161N-89W

120' FNL, 1660' FEL



RESERVES AND ECONOMICS  
 -----

NO ESCALATION

109,630 BO RESERVES

AS OF JUNE 1, 1998

-END- MO-YR	---GROSS PRODUCTION---		---NET PRODUCTION---		--PRICES--		-----OPERATIONS, M\$-----			CAPITAL COSTS, M\$	CASH FLOW BTAX, M\$	10.00 PCT CUM. DISC BTAX, M\$
	OIL, MMBL	GAS, MMCF	OIL, MMBL	GAS, MMCF	OIL \$/B	GAS \$/M	NET OPER REVENUES	SEV+ADV TAXES	NET OPER EXPENSES			
4-98	.000	.000	.000	.000	15.00	.00	.000	.000	.000	650.000	-650.000	-660.408
5-98	.000	.000	.000	.000	15.00	.00	.000	.000	.000	550.000	-550.000	-1214.794
6-98	3.343	.000	2.674	.000	15.00	.00	40.110	3.610	5.000	.000	31.500	-1183.419
7-98	3.034	.000	2.427	.000	15.00	.00	36.405	3.276	5.000	.000	28.129	-1155.623
8-98	2.792	.000	2.234	.000	15.00	.00	33.510	3.016	5.000	.000	25.494	-1130.630
9-98	2.595	.000	2.076	.000	15.00	.00	31.140	2.803	5.000	.000	23.337	-1107.933
10-98	2.432	.000	1.946	.000	15.00	.00	29.190	2.627	5.000	.000	21.563	-1087.127
11-98	2.294	.000	1.835	.000	15.00	.00	27.525	2.477	5.000	.000	20.048	-1067.936
12-98	2.175	.000	1.740	.000	15.00	.00	26.100	2.349	5.000	.000	18.751	-1050.128
1-99	2.072	.000	1.658	.000	15.00	.00	24.870	2.238	5.000	.000	17.632	-1033.516
2-99	1.981	.000	1.585	.000	15.00	.00	23.775	2.140	5.000	.000	16.635	-1017.967
3-99	1.900	.000	1.520	.000	15.00	.00	22.800	2.052	5.000	.000	15.748	-1003.364
4-99	1.827	.000	1.462	.000	15.00	.00	21.930	1.974	5.000	.000	14.956	-989.605
5-99	1.761	.000	1.409	.000	15.00	.00	21.135	1.902	5.000	.000	14.233	-976.614
6-99	1.702	.000	1.362	.000	15.00	.00	20.430	1.839	5.000	.000	13.591	-964.308
7-99	1.647	.000	1.318	.000	15.00	.00	19.770	1.779	5.000	.000	12.991	-952.638
8-99	1.597	.000	1.278	.000	15.00	.00	19.170	1.725	5.000	.000	12.445	-941.547
9-99	1.551	.000	1.241	.000	15.00	.00	18.615	1.675	5.000	.000	11.940	-930.990
10-99	1.509	.000	1.207	.000	15.00	.00	18.105	1.629	5.000	.000	11.476	-920.924
11-99	1.469	.000	1.175	.000	15.00	.00	17.625	1.586	5.000	.000	11.039	-911.317
12-99	1.432	.000	1.146	.000	15.00	.00	17.190	1.547	5.000	.000	10.643	-902.128
1-00	1.397	.000	1.118	.000	15.00	.00	16.770	1.509	5.000	.000	10.261	-893.339
2-00	1.365	.000	1.092	.000	15.00	.00	16.380	1.474	5.000	.000	9.906	-884.921
2-01	14.416	.000	11.533	.000	15.00	.00	172.995	15.570	60.000	.000	97.425	-806.300
2-02	11.927	.000	9.542	.000	15.00	.00	143.130	12.882	60.000	.000	70.248	-754.764
2-03	10.342	.000	8.274	.000	15.00	.00	124.110	11.170	60.000	.000	52.940	-719.457
2-04	9.216	.000	7.373	.000	15.00	.00	110.595	9.954	60.000	.000	40.641	-694.816
2-05	8.292	.000	6.634	.000	15.00	.00	99.510	8.956	60.000	.000	30.554	-677.975
2-06	7.463	.000	5.970	.000	15.00	.00	89.550	8.060	60.000	.000	21.490	-667.207
2-07	6.099	.000	4.879	.000	15.00	.00	73.185	6.587	54.209	.000	12.389	-661.538
2-08												
2-09												
2-10												
2-11												
2-12												
2-13												
2-14												
S TOT	109.630	.000	87.708	.000	15.00	.00	1315.620	118.406	519.209	1200.000	-521.995	-661.538
REM.	.000	.000	.000	.000	.00	.00	.000	.000	.000	.000	.000	-661.538
TOTAL	109.630	.000	87.708	.000	15.00	.00	1315.620	118.406	519.209	1200.000	-521.995	-661.538
CUM.	.000	.000										
ULT.	109.630	.000										
							NET OIL REVENUES (M\$)	1315.620	-----PRESENT WORTH PROFILE-----			
							NET GAS REVENUES (M\$)	.000	DISC	PW OF NET	DISC	PW OF NET
							TOTAL REVENUES (M\$)	1315.620	RATE	BTAX, M\$	RATE	BTAX, M\$
									----	----	----	----
BTAX RATE OF RETURN (PCT)			.00	PROJECT LIFE (YEARS)			8.820	.0	-521.995	45.0	-897.908	
BTAX PAYOUT YEARS			8.82	DISCOUNT RATE (PCT)			10.000	5.0	-599.360	50.0	-917.811	
BTAX PAYOUT YEARS (DISC)			8.82	GROSS OIL WELLS			1.000	9.0	-650.097	55.0	-935.941	
BTAX NET INCOME/INVEST			.57	GROSS GAS WELLS			.000	12.0	-683.130	60.0	-952.566	
BTAX NET INCOME/INVEST (DISC)			.46	GROSS WELLS			1.000	15.0	-712.642	65.0	-967.910	
								20.0	-755.474	70.0	-982.146	
INITIAL W.I. FRACTION			1.000000	INITIAL NET OIL FRACTION			.800000	25.0	-791.993	75.0	-995.421	
FINAL W.I. FRACTION			1.000000	FINAL NET OIL FRACTION			.800000	30.0	-823.597	80.0	-1007.854	
PRODUCTION START DATE			6/01/98	INITIAL NET GAS FRACTION			.000000	35.0	-851.308	90.0	-1030.567	
MONTHS IN FIRST LINE			1.00	FINAL NET GAS FRACTION			.000000	40.0	-875.892	500.0	-1372.926	

**Lyco Operating Company  
Plumer Lundquist #25-2 Well  
NW/NE Sec. 25-T161N-R99W  
Divide County, North Dakota**

**Case Number 7053**

**Exhibit 9**

**ECONOMICS OF ADDITIONAL RED RIVER DRILLING  
NE/4 SEC25 & SE/4 SEC 24-T163N-R99W**

**ESTIMATED RED RIVER STRUCTURAL AERIAL EXTENT  
ACRES  
196**

**ESTIMATED PLUMER-LUNDQUIST #25-2 PRODUCTIVE  
ACRES  
95**

**ESTIMATED PLUMER-LUNDQUIST #25-2 ULTIMATE  
RECOVERY  
109,630 BO**

**ESTIMATED SECOND WELL DRILLING & COMPLETION  
TOTAL COST  
\$1,200,000**

**ESTIMATED RECOVERABLE RESERVES FROM A SECOND WELL  
FROM 50 ACRES ABOVE THE OIL/WATER CONTACT, EITHER NORTH  
OR SOUTH OF THE EXISTING WELL  
BO  
58,250**

**ESTIMATED D & C COST PER RECOVERABLE BBL OF OIL FOR  
ADDITIONAL RED RIVER DEVELOPMENT  
\$20.60/BO**

NORTH DAKOTA INDUSTRIAL COMMISSION

**OIL AND GAS DIVISION**

Wesley D. Norton  
DIRECTOR

F.E. Wilborn  
ASSISTANT DIRECTOR

March 26, 1998

Lyco Operating Company  
6688 North Central Expressway, Suite 1600  
Dallas, TX 75206-3927

Dear Gentlemen/Madam:

The temporary spacing for the development of an oil and/or gas pool discovered by the #25-2 Plumer-Lundquist well, located in the NW/4 NE/4 of Section 25, T.161N., R.99W., Divide County, North Dakota, will be considered at the North Dakota Industrial Commission hearing on April 22, 1998.

As you have been previously informed, all exhibits to be used at the hearing are to be prefiled in our office approximately five (5) days prior to the date of hearing.

Thank you for your assistance in this matter.

Sincerely,

*F.E. Wilborn / th*

F.E. Wilborn  
Deputy Enforcement Officer

FEW/th  
enc.

NOTICE OF PUBLICATION  
NORTH DAKOTA  
INDUSTRIAL COMMISSION  
BISMARCK, NORTH DAKOTA

The State of North Dakota by its Industrial Commission hereby gives notice pursuant to law and the rules and regulations of said Commission promulgated thereunder of the following public hearing to be held at 9:00 a.m. on ~~Monday~~ Monday, ~~April 7~~ April 8, 1998, Brynild Haugland Room, State Capitol, Bismarck, North Dakota. For the purpose of this hearing, the Commission, any member thereof acting as Examiner, or an Examiner appointed by the Commission will receive testimony and exhibits.

ATTENTION PERSONS WITH DISABILITIES: If you plan to attend the hearing, and will need special facilities or assistance relating to a disability, please contact the North Dakota Industrial Commission at 701-328-3722 by April 8, 1998.

STATE OF NORTH DAKOTA TO:

All named parties and persons having any right, title, interest, or claim in the following cases and notices to the public. **CASE NO. 7046:** ON A MOTION OF THE COMMISSION TO CONSIDER THE PROPER SPACING FOR THE DEVELOPMENT OF THE CABERNET-MADISON POOL, DUNN COUNTY, NORTH DAKOTA, REDEFINE THE LIMITS OF THE FIELD, AND ENACT SUCH SPECIAL FIELD RULES AS MAY BE NECESSARY. **ARMSTRONG OPERATING, INC. CASE NO. 7047:** ON A MOTION OF THE COMMISSION TO CONSIDER THE PROPER SPACING FOR THE DEVELOPMENT OF THE TOBACCO GARDEN-MADISON POOL, MCKENZIE COUNTY, NORTH DAKOTA, REDEFINE THE LIMITS OF THE FIELD, AND ENACT SUCH SPECIAL FIELD RULES AS MAY BE NECESSARY. **WILLIAM HERBERT HUNT TRUST ESTATE. CASE NO. 7048:** ON A MOTION OF THE COMMISSION TO CONSIDER AN ORDER FOR FURTHER RESTRICTION ON THE RATE OF OIL PRODUCTION FROM WELLS LOCATED IN THE STADIUM-LODGEPOLE POOL, STARK COUNTY, NORTH DAKOTA. **CASE NO. 7049:** ON A MOTION OF THE COMMISSION TO CONSIDER THE APPLICATION OF BURLINGTON RESOURCES OIL & GAS COMPANY FOR AN ORDER DESIGNATING IT AS THE OPERATOR OF ANY WELL TO BE DRILLED IN A SPACING UNIT FOR THE CEDAR HILLS-RED RIVER "B" POOL DESCRIBED AS SECTION 22, T.133N., R.106W., SLOPE COUNTY, NORTH DAKOTA, RESCINDING OR REVOKING ANY PERMITS ISSUED TO ANY OTHER PERSON OR ENTITY, AND GRANTING SUCH OTHER AND FURTHER RELIEF AS MAY BE APPROPRIATE. **CASE NO. 7050:** ON A MOTION OF THE COMMISSION TO CONSIDER THE APPLICATION OF BURLINGTON RESOURCES OIL & GAS COMPANY FOR AN ORDER EXTENDING THE OUTLINE OF THE CUSTOMS FIELD TO INCLUDE ALL OF SECTIONS 3, 4, 5, 8, 9, 10, 15, 16, 17 AND 21 OF T.163N., R.90W., BURKE COUNTY, NORTH DAKOTA; INCLUDING ALL OF SECTIONS 3, 4, 5, 10, 11, 15, 16, 17 AND 21 OF T.163N., R.90W., BURKE COUNTY, NORTH DAKOTA, WITHIN ZONE II OF THE CUSTOMS-MIDALE/NESSON POOL, FOR WHICH 640-ACRE SPACING HAS BEEN ESTABLISHED; AND GRANTING SUCH FURTHER AND OTHER RELIEF AS THE COMMISSION DEEMS APPROPRIATE. **CASE NO. 7051:** ON A MOTION OF THE COMMISSION TO CONSIDER THE APPLICATION BURLINGTON RESOURCES OIL & GAS COMPANY FOR AN ORDER EXTENDING THE OUTLINE OF THE CARTER FIELD TO INCLUDE ALL OF SECTION 11, T.162N., R.90W., BURKE COUNTY, NORTH DAKOTA; AND INCLUDING ALL OF SAID SECTION 11 AND ALL OF SECTION 19, T.162N., R.89W., BURKE COUNTY, NORTH DAKOTA, WITHIN ZONE II OF THE CARTER-MIDALE/NESSON POOL, FOR WHICH 640-ACRE SPACING HAS BEEN ESTABLISHED; AND GRANTING SUCH FURTHER AND OTHER RELIEF AS THE

COMMISSION DEEMS APPROPRIATE. **CASE NO. 7052:** ON A MOTION OF THE COMMISSION TO CONSIDER THE APPLICATION OF BURLINGTON RESOURCES OIL & GAS COMPANY FOR AN ORDER EITHER CREATING A ZONE OF 640-ACRE SPACING WITHIN THE NORTH STAR-MADISON POOL CONSISTING OF ALL OF SECTION 21, T.163N., R.89W., BURKE COUNTY, NORTH DAKOTA, OR CREATING AND ESTABLISHING A 640-ACRE DRILLING UNIT CONSISTING OF ALL OF SAID SECTION 21, FOR PURPOSES OF DRILLING A HORIZONTAL WELL IN THE MIDALE/NESSON POOL, AND FOR SUCH OTHER AND FURTHER RELIEF AS THE COMMISSION DEEMS APPROPRIATE.

ON A MOTION OF THE COMMISSION TO CONSIDER THE APPLICATION OF CONTINENTAL RESOURCES, INC. FOR AN ORDER AMENDING THE FIELD RULES FOR THE STATE LINE-RED RIVER POOL SO AS TO CREATE AND ESTABLISH A ZONE OF 320-ACRE SPACING FOR THE N/2 AND THE S/2 OF SECTION 27, T.129N., R.103W., BOWMAN COUNTY, NORTH DAKOTA, AUTHORIZING THE DRILLING OF A VERTICAL WELL WITHIN EACH 320-ACRE SPACING UNIT, AND/OR SUCH OTHER AND FURTHER RELIEF AS THE COMMISSION DEEMS APPROPRIATE. **CASE NO. 7053:** ON A MOTION OF THE COMMISSION TO CONSIDER THE APPLICATION OF CONTINENTAL RESOURCES, INC. FOR AN ORDER REDEFINING AND EXTENDING THE FIELD BOUNDARIES OF THE STATE LINE-RED RIVER POOL, BOWMAN COUNTY, NORTH DAKOTA, TO INCLUDE ALL OF SECTION 11, T.129N., R.103W., BOWMAN COUNTY, NORTH DAKOTA, AND SUCH OTHER AND ADDITIONAL LANDS AS THE COMMISSION DEEMS APPROPRIATE; FOR THE CREATION OF TWO 320-ACRE SPACING UNITS CONSISTING OF THE N/2 AND S/2 OF SECTION 11, FOR DRILLING HORIZONTAL WELLS, AND/OR SUCH OTHER AND FURTHER RELIEF AS THE COMMISSION DEEMS APPROPRIATE. **CASE NO. 7061:** ON A MOTION OF THE COMMISSION TO CONSIDER THE APPLICATION CONTINENTAL RESOURCES, INC. FOR AN ORDER PURSUANT TO N.D. ADMIN. CODE SECTION 43-02-03-88.1 POOLING ALL INTERESTS IN A SPACING UNIT FOR THE STATE LINE-RED RIVER POOL DESCRIBED AS THE N/2 OF SECTION 11, T.129N., R.103W., BOWMAN COUNTY, NORTH DAKOTA; AUTHORIZING THE RECOVERY FROM EACH NONPARTICIPATING LESSEE A RISK PENALTY AS PROVIDED BY N.D.C.C. SECTION 38-08-08 AND SUCH OTHER AND FURTHER RELIEF AS THE COMMISSION DEEMS APPROPRIATE. **CASE NO. 7062:** ON A MOTION OF THE COMMISSION TO CONSIDER THE APPLICATION CONTINENTAL RESOURCES, INC. FOR AN ORDER PURSUANT TO N.D. ADMIN. CODE SECTION 43-02-03-88.1 POOLING ALL INTERESTS IN A SPACING UNIT FOR THE STATE LINE-RED RIVER POOL DESCRIBED AS THE S/2 OF SECTION 11, T.129N., R.103W., BOWMAN COUNTY, NORTH DAKOTA; AUTHORIZING THE RECOVERY FROM EACH NONPARTICIPATING LESSEE A RISK PENALTY AS PROVIDED BY N.D.C.C. SECTION 38-08-08 AND SUCH OTHER AND FURTHER RELIEF AS THE COMMISSION DEEMS APPROPRIATE. **CASE NO. 7063:** ON A MOTION OF THE COMMISSION TO CONSIDER THE APPLICATION OF CONTINENTAL RESOURCES, INC. FOR AN ORDER PURSUANT TO N.D. ADMIN. CODE SECTION 43-02-03-88.1 POOLING ALL INTERESTS IN A SPACING UNIT FOR THE CEDAR HILLS-RED RIVER "B" POOL, DESCRIBED AS ALL OF SECTION 29, T.131N., R.104W., BOWMAN COUNTY, NORTH DAKOTA; AUTHORIZING THE RECOVERY FROM EACH NONPARTICIPATING LESSEE A RISK PENALTY AS PROVIDED BY N.D.C.C. SECTION 38-08-08 AND SUCH OTHER AND FURTHER RELIEF AS THE COMMISSION DEEMS APPROPRIATE. **CASE NO. 7064:** ON A MOTION OF THE COMMISSION TO CONSIDER THE APPLICATION OF CONTINENTAL RESOURCES, INC. FOR AN ORDER PURSUANT TO N.D. ADMIN. CODE SECTION 43-02-03-88.1 POOLING ALL INTERESTS IN A SPACING UNIT FOR THE CEDAR HILLS-RED RIVER "B" POOL, DESCRIBED AS ALL OF SECTION 2, T.129N., R.104W., BOWMAN COUNTY, NORTH DAKOTA; AUTHORIZING THE RECOVERY FROM EACH NONPARTICIPATING LESSEE A RISK PENALTY AS PROVIDED BY N.D.C.C. SECTION 38-08-08 AND SUCH OTHER AND FURTHER RELIEF AS THE COMMISSION DEEMS APPROPRIATE. **CASE NO. 7065:** ON A MOTION OF THE COMMISSION TO CONSIDER THE APPLICATION OF CONTINENTAL RESOURCES, INC. FOR AN ORDER PURSUANT TO N.D. ADMIN. CODE SECTION 43-02-03-88.1 POOLING ALL INTERESTS IN A SPACING UNIT FOR THE CEDAR HILLS-RED RIVER "B" POOL, DESCRIBED AS ALL OF SECTION 5, T.129N., R.104W., BOWMAN COUNTY, NORTH DAKOTA; AUTHORIZING THE RECOVERY FROM EACH NONPARTICIPATING LESSEE A RISK PENALTY AS PROVIDED BY N.D.C.C. SECTION 38-08-08 AND SUCH OTHER AND FURTHER RELIEF AS THE COMMISSION DEEMS APPROPRIATE.

ON A MOTION OF THE COMMISSION TO CONSIDER THE APPLICATION OF CONTINENTAL RESOURCES, INC. FOR AN ORDER AMENDING THE FIELD RULES FOR THE STATE LINE-RED RIVER POOL SO AS TO CREATE AND ESTABLISH A ZONE OF 320-ACRE SPACING FOR THE N/2 AND THE S/2 OF SECTION 27, T.129N., R.103W., BOWMAN COUNTY, NORTH DAKOTA, AUTHORIZING THE DRILLING OF A VERTICAL WELL WITHIN EACH 320-ACRE SPACING UNIT, AND/OR SUCH OTHER AND FURTHER RELIEF AS THE COMMISSION DEEMS APPROPRIATE. **CASE NO. 7050:** ON A MOTION OF THE COMMISSION TO CONSIDER THE APPLICATION OF CONTINENTAL RESOURCES, INC. FOR AN ORDER REDEFINING AND EXTENDING THE FIELD BOUNDARIES OF THE STATE LINE-RED RIVER POOL, BOWMAN COUNTY, NORTH DAKOTA, TO INCLUDE ALL OF SECTION 11, T.129N., R.103W., BOWMAN COUNTY, NORTH DAKOTA, AND SUCH OTHER AND ADDITIONAL LANDS AS THE COMMISSION DEEMS APPROPRIATE; FOR THE CREATION OF TWO 320-ACRE SPACING UNITS CONSISTING OF THE N/2 AND S/2 OF SECTION 11, FOR DRILLING HORIZONTAL WELLS, AND/OR SUCH OTHER AND FURTHER RELIEF AS THE COMMISSION DEEMS APPROPRIATE. **CASE NO. 7061:** ON A MOTION OF THE COMMISSION TO CONSIDER THE APPLICATION CONTINENTAL RESOURCES, INC. FOR AN ORDER PURSUANT TO N.D. ADMIN. CODE SECTION 43-02-03-88.1 POOLING ALL INTERESTS IN A SPACING UNIT FOR THE STATE LINE-RED RIVER POOL DESCRIBED AS THE N/2 OF SECTION 11, T.129N., R.103W., BOWMAN COUNTY, NORTH DAKOTA; AUTHORIZING THE RECOVERY FROM EACH NONPARTICIPATING LESSEE A RISK PENALTY AS PROVIDED BY N.D.C.C. SECTION 38-08-08 AND SUCH OTHER AND FURTHER RELIEF AS THE COMMISSION DEEMS APPROPRIATE. **CASE NO. 7062:** ON A MOTION OF THE COMMISSION TO CONSIDER THE APPLICATION CONTINENTAL RESOURCES, INC. FOR AN ORDER PURSUANT TO N.D. ADMIN. CODE SECTION 43-02-03-88.1 POOLING ALL INTERESTS IN A SPACING UNIT FOR THE STATE LINE-RED RIVER POOL DESCRIBED AS THE S/2 OF SECTION 11, T.129N., R.103W., BOWMAN COUNTY, NORTH DAKOTA; AUTHORIZING THE RECOVERY FROM EACH NONPARTICIPATING LESSEE A RISK PENALTY AS PROVIDED BY N.D.C.C. SECTION 38-08-08 AND SUCH OTHER AND FURTHER RELIEF AS THE COMMISSION DEEMS APPROPRIATE. **CASE NO. 7063:** ON A MOTION OF THE COMMISSION TO CONSIDER THE APPLICATION OF CONTINENTAL RESOURCES, INC. FOR AN ORDER PURSUANT TO N.D. ADMIN. CODE SECTION 43-02-03-88.1 POOLING ALL INTERESTS IN A SPACING UNIT FOR THE CEDAR HILLS-RED RIVER "B" POOL, DESCRIBED AS ALL OF SECTION 29, T.131N., R.104W., BOWMAN COUNTY, NORTH DAKOTA; AUTHORIZING THE RECOVERY FROM EACH NONPARTICIPATING LESSEE A RISK PENALTY AS

PROVIDED BY N.D.C.C. SECTION 38-08-08 AND SUCH OTHER AND FURTHER RELIEF AS THE COMMISSION DEEMS APPROPRIATE. **CASE NO. 7064:** ON A MOTION OF THE COMMISSION TO CONSIDER THE APPLICATION OF CONTINENTAL RESOURCES, INC. FOR AN ORDER PURSUANT TO N.D. ADMIN. CODE SECTION 43-02-03-88.1 POOLING ALL INTERESTS IN A SPACING UNIT FOR THE CEDAR HILLS-RED RIVER "B" POOL, DESCRIBED AS ALL OF SECTION 2, T.129N., R.104W., BOWMAN COUNTY, NORTH DAKOTA; AUTHORIZING THE RECOVERY FROM EACH NONPARTICIPATING LESSEE A RISK PENALTY AS PROVIDED BY N.D.C.C. SECTION 38-08-08 AND SUCH OTHER AND FURTHER RELIEF AS THE COMMISSION DEEMS APPROPRIATE. **CASE NO. 7065:** ON A MOTION OF THE COMMISSION TO CONSIDER THE APPLICATION OF CONTINENTAL RESOURCES, INC. FOR AN ORDER PURSUANT TO N.D. ADMIN. CODE SECTION 43-02-03-88.1 POOLING ALL INTERESTS IN A SPACING UNIT FOR THE CEDAR HILLS-RED RIVER "B" POOL, DESCRIBED AS ALL OF SECTION 5, T.129N., R.104W., BOWMAN COUNTY, NORTH DAKOTA; AUTHORIZING THE RECOVERY FROM EACH NONPARTICIPATING LESSEE A RISK PENALTY AS PROVIDED BY N.D.C.C. SECTION 38-08-08 AND SUCH OTHER AND FURTHER RELIEF AS THE COMMISSION DEEMS APPROPRIATE.

OK



# Affidavit of Publication

## Notice of publication

State of North Dakota, County of Divide, ss:

I, Steven J. Andrist, being first duly sworn, on my oath, say that I am the publisher of The Journal, a weekly newspaper of general circulation and official newspaper of Divide County, State of North Dakota, published in the city of Crosby, ND, and that the advertisement headed

### NORTH DAKOTA INDUSTRIAL COMMISSION BISMARCK, NORTH DAKOTA

R.99W., DIVIDE COUNTY, NORTH DAKOTA, AND ENACT SUCH SPECIAL FIELD RULES AS MAY BE NECESSARY. CASE NO. 7054: ON A MOTION OF THE COMMISSION TO CONSIDER THE TEMPORARY SPACING FOR THE DEVELOPMENT OF AN OIL AND/OR GAS POOL DISCOVERED BY THE LYCO OPERATING COMPANY #21-9 SWAMPY-MOSSER WELL, LOCATED IN THE NE/4 SE/4 OF SECTION 21, T.163N., R.100W., DIVIDE COUNTY, NORTH DAKOTA, AND ENACT SUCH SPECIAL FIELD RULES AS MAY BE NECESSARY. CASE NO. 7055: ON A MOTION OF THE COMMISSION TO CONSIDER THE APPLICATION OF LYCO OPERATING COMPANY FOR AN ORDER CREATING A 320-ACRE DRILLING UNIT COMPRISED OF THE SE/4 OF SECTION 24, AND THE NE/4 OF SECTION 25, T.161N., R.99W., DIVIDE COUNTY, NORTH DAKOTA, AND AUTHORIZING THE DRILLING OF AN INTERLAKE FORMATION WELL THEREON AT ANY LOCATION NOT CLOSER THAN 660 FEET TO THE BOUNDARIES OF SUCH 320-ACRE DRILLING UNIT AS AN EXCEPTION TO SECTION 43-02-03-18 OF THE NORTH DAKOTA ADMINISTRATIVE CODE.

The State of North Dakota by its Industrial Commission hereby gives notice pursuant to law and the rules and regulations of said Commission promulgated thereunder of the following public hearing to be held at 9:00 a.m. on April 22, 1998, Brynild Haugland Room, State Capitol, Bismarck, North Dakota. For the purpose of this hearing, the Commission, any member thereof acting as Examiner, or an Examiner appointed by the Commission will receive testimony and exhibits.

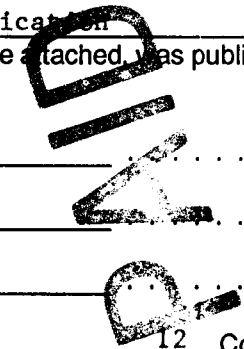
**ATTENTION PERSONS WITH DISABILITIES:** If you plan to attend the hearing and will need special facilities or assistance relating to a disability, please contact the North Dakota Industrial Commission at 701-28-3722 by April 8, 1998.

### STATE OF NORTH DAKOTA TO:

All named parties and persons having any right, title, interest, or claim in the following cases and notices to the public. CASE NO. 7053: ON A MOTION OF THE COMMISSION TO CONSIDER THE TEMPORARY SPACING FOR THE DEVELOPMENT OF AN OIL AND/OR GAS POOL DISCOVERED BY THE LYCO OPERATING COMPANY #5-2 PLUMER-LUNDQUIST WELL, LOCATED IN THE NW/4 OF SECTION 25, T.161N.,

Signed by,  
Edward T. Schafer, Governor  
Chairman  
ND Industrial Commission  
4-1

<u>Notice of publication</u>		_____	
a printed copy of which is here attached, was published in The Journal on the following dates:			
_____	Lines @ _____	= \$ _____	
_____	Lines @ _____	= \$ _____	
_____	Lines @ _____	= \$ _____	
April 1, 1998	12 Column Inches @ 3.90	= \$ 46.80	
_____	Column Inches @ _____	= \$ _____	
_____	Column Inches @ _____	= \$ _____	
Notary/Affidavit Fee	.....	\$ _____	
Total Charge	.....	\$ 46.80	



Signed Steven J. Andrist  
Steven J. Andrist, Publisher

Subscribed and sworn to before me April 3, 1998  
Donna Molander  
Donna Molander  
Notary Public, State of North Dakota  
My Commission Expires December 14, 2000