STATE OF NEW MEXICO

ENERGY AND MINERALS DEPARTMENT

OIL CONSERVATION DIVISION
AZTEC DISTRICT OFFICE

1000 RIO BRAZOS ROAD
AZTEC, NEW MEXICO 87410
(505) 334-6178

OIL CONSERVATION DIVISION
BOX 2088
SANTA FE, NEW MEXICO 87501

DATE 9/2/87

RE: Proposed MC_____
Proposed DHC ✓
Proposed NSL_____
Proposed SWD_____
Proposed WFX_____
Proposed PMX_____

Gentlemen:

I have examined the application dated 9/2/87

for the BCO State 4 #4 D-2-23N-5W
Operator Lease and Well No. Unit, S-T-R

and my recommendations are as follows:

Approve

Yours truly,

PADILLA & SNYDER
ATTORNEYS AT LAW
200 W. MARCY, SUITE 212
P.O. BOX 2523
SANTA FE, NEW MEXICO 87504-2523
(505) 988-7577

September 1, 1987

RECEIVED
SEP 02 1987
OIL CON. DIV.
DIST. 3

HAND-DELIVERED

William J. Lemay
Director, N. M. Oil Conservation Division
State Land Office Building
Santa Fe, New Mexico 87501

Re: Application of BCO, Inc. for Downhole Commingling, Rio Arriba County, New Mexico

Dear Mr. Lemay:

Enclosed in duplicate, for administrative approval, is the application of BCO, Inc. for downhole commingling in Rio Arriba County, New Mexico. Should you need additional information please do not hesitate to call us.

In addition, by copy of this letter we are sending a complete copy of the application to offset operators and to Mr. Frank Chavez, the Division's Aztec District Supervisor. A waiver form, attached hereto is also being sent to offset operators so that they may indicate their approval or disapproval of the application.

Very truly yours,

Ernest L. Padilla

ELP:njp

Enclosure as stated

cc: Mr. Frank Chavez - OCD, Aztec, N.M. - 1st Class
Hixon Development - Certified Mail
Union Texas Petroleum - Certified Mail
Alexander Energy - Certified Mail
Department of the Interior - Certified Mail

BEFORE THE OIL CONSERVATION DIVISION

In the Matter of the Application
of BCO, Inc. for administrative
approval of Downhole Commingling,
Rio Arriba County, New Mexico

No._____

APPLICATION

Applicant, BCO, Inc., by and through its undersigned attorneys, and in support of this application pursuant to Rule 303(C) of the General Rules and Regulations of The Division states as follows:

1. Applicant is the operator of certain oil and gas working interests in Section 16, Township 23 North, Range 7 West, NMPM, Rio Arriba County, New Mexico (said lands).

2. Applicant is drilling a well within said lands and has intentions of drilling additional wells thereon and requests to commingle the production of the Basin Dakota, Lybrook-Gallup and Greenhorn pools and formation encountered in such wells.

3. Applicant operates and has drilled other wells on lands adjoining and in the immediate area of said lands and has previously obtained permission to downhole commingle within the wellbores of wells located on such lands as follows:

(a) By Division Order R-5310 (Exhibit A), to commingle Lybrook-Gallup, Basin-Dakota, undesignated Greehorn, and Mancos Stringer within the well-bore of the Dunn Well No. 2 located in Unit F of Section 10 Township 23 North, Range 7 West.

(b) By Division Order R-6719 (Exhibit B), to downhole commingle within the wellbores of wells located on such lands as follows:

<u>Township 23 North, Range 7 West</u>

(1) Dunn Well No. 3

Unit I of Section 3

(2) State H Well No. 3

Unit M of Section 2

(3) State H Well No. 4

Unit D of Section 2

(c) By Division Order No. R-6929 (Exhibit C), to commingle the production from the Lybrook-Gallup (including the Greenhorn formation) and Basin Dakota pool within the wellbore of wells located in Sections 2, 3, 4, 9 and 10 of Township 23 North, Range 7 West, NMPM, Rio Arriba County.

5. Production from the Basin-Dakota, Lybrook-Gallup and Greenhorn pools and formations thereof are capable of low production only, all of which are oil producing zones.

6. The proposed commingling may result in the recovery of additional hydrocarbons from each of the subject formations and pools thereof, thereby preventing waste.

7. The reservoir characteristics of each of the subject pools and formations thereof are such that underground waste would not be caused by the proposed commingling.

8. Approval of this application will not impair correlative rights.

9. In accordance with Rule 303(C) of the General Rules of the Division:

(a) The production from the commingled zones will meet the standards set forth in 303(C)(a)(1).

(b) The oil zones will require artificial lift.

(c) Neither zone produces more water than combined oil.

(d) The fluids from each zone are compatible with each other.

(e) Total value of the crude will not be reduced by commingling.

(f) Ownership of the zones is common.

(g) Commingling will not jeopardize the efficiency of present or future secondary recovery operations.

10. Attached hereto and incorporated herein by reference are Exhibits A through H in support of this application and which meet the requirements of Rule 303(C)(2).

WHEREFORE, Applicant respectfully requests:

1. That the Division enter its order approving this application

2. And for such other relief as the Division may deem appropriate in the premises.

Respectfully submitted,

PADILLA & SNYDER

By: _____

Ernest L. Padilla
Post Office Box 2523
Santa Fe, New Mexico 87504-2523
(505) 988-7577
Attorneys for Applicant

LIST OF EXHIBITS

Exhibit A	Order R-5310
Exhibit B	Order R-6719
Exhibit C	Order R-6929
Exhibit D	Operator List
Exhibit E	Plat
Exhibit F	Production Information
Exhibit G	Well Completion, Reports
Exhibit H	Allocation Recommendation

EXHIBIT A

BEFORE THE OIL CONSERVATION COMMISSION
OF THE STATE OF NEW MEXICO

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

CASE NO. 5736
Order No. R-5310

APPLICATION OF BCO INC. FOR
DOWNHOLE COMMINGLING, RIO
ARRIBA COUNTY, NEW MEXICO.

BEFORE EXAMINER STAMETS
OIL CONSERVATION DIVISION
EXHIBIT NO. 3
CASE NO.
Submitted by
Hearing Date

ORDER OF THE COMMISSION

BY THE COMMISSION:

This cause came on for hearing at 9 a.m. on September 29, 1976, at Santa Fe, New Mexico, before Examiner Daniel S. Nutter.

NOW, on this 27th day of October, 1976, the Commissio a quorum being present, having considered the testimony, the record, and the recommendations of the Examiner, and being fully advised in the premises,

FINDS:

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

(2) That the applicant, BCO Inc., is the owner and operator of the Dunn Well No. 2, located in Unit F of Section 10, Township 23 North, Range 7 West, NMPM, Rio Arriba County, New Mexico.

(3) That the applicant seeks authority to commingle Lybrook Gallup, Basin-Dakota, undesignated Greenhorn, and Mancos stringer production within the wellbore of the above-described well.

(4) That from each of the aforesaid pools and zones, the subject well is capable of low marginal production only.

(5) That the proposed commingling may result in the recover of additional hydrocarbons from each of the subject pools and zones, thereby preventing waste, and will not violate correlative rights.

(6) That the reservoir characteristics of each of the subject pools and zones are such that underground waste would not be caused by the proposed commingling provided that the well is not shut-in for an extended period.

(7) That to afford the Commission the opportunity to assess the potential for waste and to expeditiously order appropriate

remedial action, the operator should notify the Aztec district office of the Commission any time the subject well is shut-in for 7 consecutive days.

(8) That in order to allocate the commingled production to each of the commingled zones in the subject well, applicant should consult with the supervisor of the Aztec district office of the Commission after completion of the well to determine an allocation formula for the Mancos-Gallup production and the Greenhorn-Dakota production.

IT IS THEREFORE ORDERED:

(1) That the applicant, BCO Inc., is hereby authorized to commingle Lybrook-Gallup, Basin-Dakota, undesignated Greenhorn and Mancos stringer production within the wellbore of the Dunn Well No. 2, located in Unit F of Section 10, Township 23 North, Range 7 West, NMPM, Rio Arriba County, New Mexico.

(2) That upon completion of the well, applicant shall consult with the supervisor of the Aztec district office of the Commission and determine an allocation formula for the Mancos-Gallup production and the Greenhorn-Dakota production.

(3) That the operator of the subject well shall immediately notify the Commission's Aztec district office any time the well has been shut-in for 7 consecutive days and shall concurrently present, to the Commission, a plan for remedial action.

(4) That 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

PHIL R. LUCERO, Chairman

EMERY C. ARNOLD, Member

JOE D. RAMEY, Member & Secretary

S E A L

jr/

EXHIBIT B

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION

IN THE MATTER OF THE HEARING
CALLED BY THE OIL CONSERVATION
DIVISION FOR THE PURPOSE OF
CONSIDERING:

CASE NO. 7279
Order No. R-6719

BEFORE EXAMINER STAMETS
OIL CONSERVATION DIVISION
EXHIBIT NO. 2
CASE NO.
Submitted by
Hearing Date

APPLICATION OF BCO, INC. FOR
DOWNHOLE COMMINGLING, RIO ARRIBA
COUNTY, NEW MEXICO.

ORDER OF THE DIVISION

BY THE DIVISION:

This cause came on for hearing at 9 a.m. on June 17, 1981, at Santa Fe, New Mexico, before Examiner Daniel S. Nutter.

NOW, on this 1st day of July, 1981, the Division Director, having considered the testimony, the record, and the recommendations of the Examiner, and being fully advised in the premises,

FINDS:

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

✓(2) That the applicant, BCO, Inc., is the owner and operator of the Dunn Well No. 3 located in Unit I of Section 3 and State H Wells Nos. 3 and 4, located in Units M and D, respectively, of Section 2, Township 23 North, Range 7 West, NMPM, Rio Arriba County, New Mexico.

✓(3) That the applicant seeks authority to commingle Lybrook-Gallup and Basin-Dakota production within the wellbores of the above-described wells.

(4) That from the Basin-Dakota zone, the subject wells are capable of low marginal production only.

(5) That from the Lybrook-Gallup zone, the subject wells are expected to be capable of low marginal production only.

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B C O, INC.

(6) That the proposed commingling may result in the recovery of additional hydrocarbons from each of the subject pools, thereby preventing waste, and will not violate correlative rights.

(7) That the reservoir characteristics of each of the subject zones are such that underground waste would not be caused by the proposed commingling provided that the wells are not shut-in for an extended period.

(8) That to afford the Division the opportunity to assess the potential for waste and to expeditiously order appropriate remedial action, the operator should notify the Aztec district office of the Division any time the subject wells are shut-in for 7 consecutive days.

(9) That in order to allocate the commingled production to each of the commingled zones in the wells, applicant should consult with the supervisor of the Aztec district office of the Division and determine an allocation formula for each of the production zones.

IT IS THEREFORE ORDERED:

(1) That the applicant, BCO, Inc., is hereby authorized to commingle Lybrook-Gallup and Basin-Dakota production within the wellbores of the Dunn Well No. 3 located in Unit I of Section 3 and State Wells Nos. 3 and 4, located in Units M and D, respectively, of Section 2, Township 23 North, Range 7 West, NMPM, Rio Arriba County, New Mexico.

(2) That the applicant shall consult with the Supervisor of the Aztec district office of the Division and determine an allocation formula for the allocation of production to each zone in each of the subject wells.

(3) That the operator of the subject wells shall immediately notify the Division's Aztec district office any time the wells have been shut-in for 7 consecutive days and shall concurrently present, to the Division, a plan for remedial action.

(4) That jurisdiction of this cause is retained for the entry of such further orders as the Division may deem necessary.

Case No. 7279
Order No. R-67

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

STATE OF NEW MEXICO
OIL CONSERVATION DIVISION

JOE D. RAMEY
Director

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B C O, INC.

EXHIBIT C

OIL CONSERVATION DIVISION

IN THE MATTER OF THE HEARING
CALLED BY THE OIL CONSERVATION
DIVISION FOR THE PURPOSE OF
CONSIDERING:

CASE NO. 7505
Order No. R-6929

APPLICATION OF BCO, INC. FOR
DOWNHOLE COMMINGLING, RIO ARRIBA
COUNTY, NEW MEXICO.

ORDER OF THE DIVISION

BY THE DIVISION:

This cause came on for hearing at 9 a.m. on March 16, 1982, at Santa Fe, New Mexico, before Examiner Richard L. Stamets.

NOW, on this 26th day of March, 1982, the Division Director, having considered the testimony, the record, and the recommendations of the Examiner, and being fully advised in the premises,

FINDS:

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

(2) That the applicant, BCO, Inc., is the owner and operator of certain wells and leases in Sections 2, 3, 4, 9, and 10, Township 23 North, Range 7 West, Rio Arriba County, New Mexico.

(3) That the applicant seeks authority to commingle Lybrook-Gallup (including the Greenhorn formation) and Basin-Dakota production within the wellbore of its current and future wells in said five sections.

(4) That from each of said zones, wells within the subject area are and are expected to be capable of low margiral production only.

(5) That the proposed commingling may result in the recov of additional hydrocarbons from each of the subject pools, ther preventing waste, and will not violate correlative rights.

(6) That the reservoir characteristics of each of the subject zones are such that underground waste would not be caused by the proposed commingling provided that any well therein is not shut-in for an extended period.

(7) That to afford the Division the opportunity to assess the potential for waste and to expeditiously order appropriate remedial action, the operator should notify the Aztec district office of the Division any time any commingled well in the subject area is shut-in for 7 consecutive days.

(8) That in order to allocate the commingled production t each of the commingled zones in any well in the subject area, applicant should consult with the supervisor of the Aztec distr office of the Division and determine an allocation formula for each of the production zones.

IT IS THEREFORE ORDERED:

(1) That the applicant, BCO, Inc., is hereby authorized to commingle Lybrook-Gallup (including the Greenhorn formation) and Basin-Dakota production within the wellbore of its current or future wells in Sections 2, 3, 4, 9, and 10 of Township 23 North, Range 7 West, NMPM, Rio Arriba County, New Mexico.

(2) That the applicant shall consult with the Supervisor of the Aztec district office of the Division and determine an allocation formula for the allocation of production to each zon in any well downhole commingled under terms of this order.

(3) That the operator shall immediately notify the Division's Aztec district office any time any well downhole commingled under terms of this order has been shut-in for 7 consecutive days and shall concurrently present, to the Division, a plan for remedial action.

(4) That jurisdiction of this cause is retained for the entry of such further orders as the Division may deem necessary

DONE at Santa Fe, New Mexico, on the day and year herein-above designated.

STATE OF NEW MEXICO
OIL CONSERVATION DIVISION

JOE D. RAMEY
Director

S E A L
fd/

OPERATOR:

BCO, INC.
135 Grant Avenue
Santa Fe, New Mexico 87501

OFFSET OPERATORS:

HIXON DEVELOPMENT
Post Office Box 2810
Farmington, New Mexico 87499
Attention: Aldrich L. Kuchera

UNION TEXAS PETROLEUM
375 U.S. HWY 64
Farmington, New Mexico 87401
Attention: Bob Frank

ALEXANDER ENERGY
Triad Center
Suite 600
501 NW Expressway
Oklahoma City, Oklahoma 73118
Attention: Roger Alexander

DEPARTMENT OF THE INTERIOR
Bureau of Land Management
Caller Service 4104
Farmington, New Mexico 87499
Attention: Ron Fellows

EXHIBIT D

EXHIBIT E

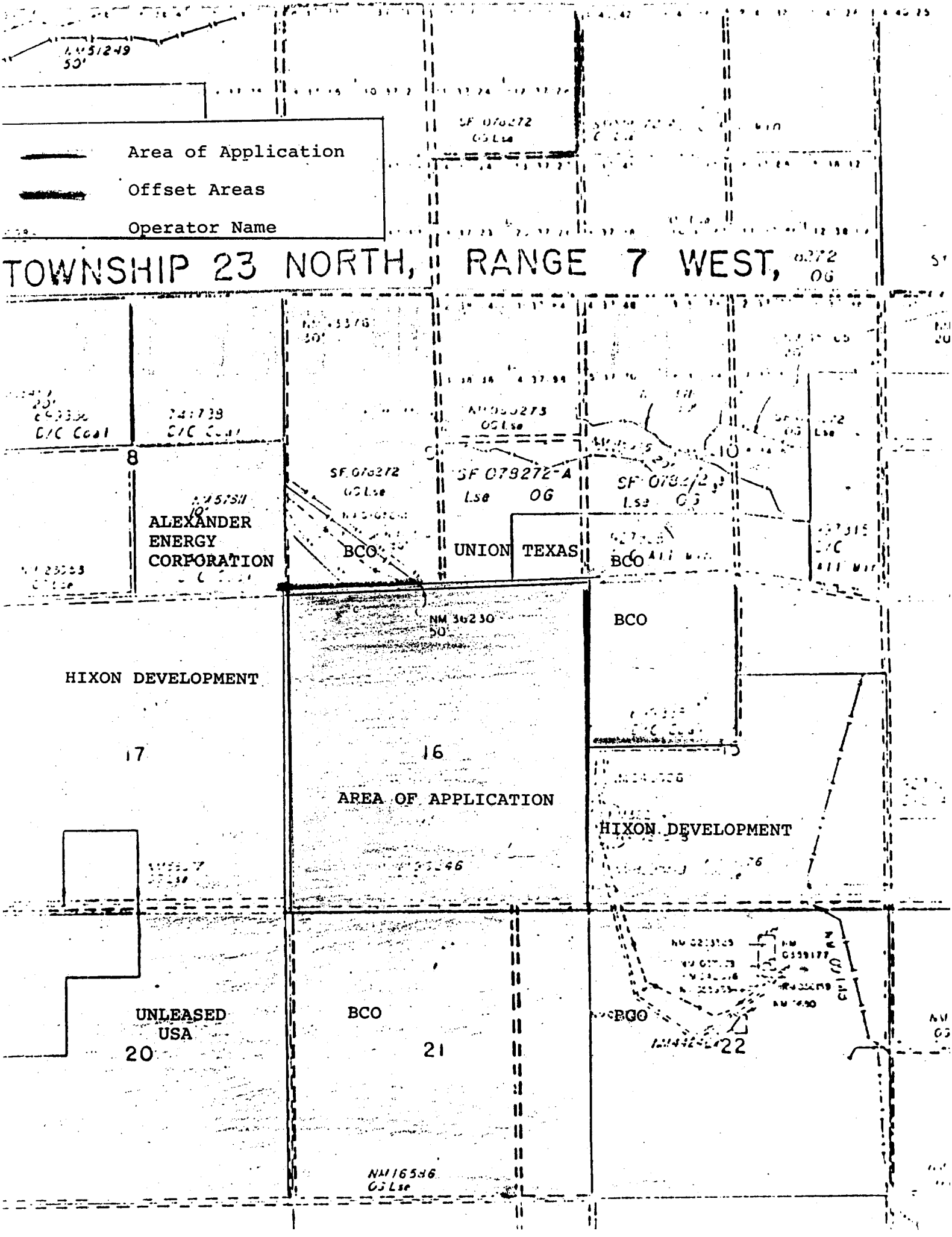
Area of Application
Offset Areas
Operator Name
TOWNSHIP 23 NORTH, RANGE 7 WEST,
8
ALEXANDER ENERGY CORPORATION
BCO
UNION TEXAS
BCO
BCO
HIXON DEVELOPMENT
17
16
AREA OF APPLICATION
HIXON DEVELOPMENT
UNLEASED USA
20
BCO
21
BCO
22

EXHIBIT F

WELL S T R		JAN	FEB	MAR	APRIL	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC 1986 PROD MP	ACCUM
UNDES GALLUP (RA)				GP	6M TO 7M									
AMOCO PRODUCTION CO														
GIL CATION FEDERAL A														
181-20N 2W OIL													U	
ARCO OIL & GAS COMPANY														
CARSON														
32-23N 7W	OIL	122	102	104	98	92	101	93	75	107	95	73	89	1161P 7549
	GAS	342	336	356	338	293	292	333	274	395	359	223	363	3904
WEST WESTERN RESOURCES, INC.														
WESTERN-WHITTAKER														
5-C 23N 5W	OIL	116	122	100	125	116								5795 2756
	GAS	1283	1615	1168	463	459								4989
	WAT	3	6											9
5-E 23N 5W	OIL	177	248	238	193	175								10315 3279
	GAS	3773	4531	3954	922	610								13790
	WAT	2	6	1	1	1								11
COMPANY TOTAL	OIL	293	370	338	318	291								1610 6035
	GAS	5055	5946	5122	1385	1269								18779
	WAT	5	12	1	1	1								20
BOLTON OIL AND GAS CORPORATION														
BOLTON-DOWNING														
1N2-24N 2W	OIL		81	75	66									2325 1349
	GAS		962	891	794									2637
UNDES DAKOTA (SJ) 6M TO 7M				DK	6M TO 7M									
DYSON PRODUCTION CORPORATION														
311-24N10W	OIL	9	4	4	7	6	1		1	2		3	2	30P 206
	GAS	37	50	50	39	44	23							251
UNDESIGNATED DAKOTA (RA)				DK										
ECO INCORPORATED														
DAVIS														
123 32N 7W OIL													U	
UNDESIGNATED GALLUP (SJ)				GP	6M TO 7M									
UNION TEXAS PETROLEUM CORPORATION														
NAVAJO INDIAN B														
7-19-27N 9W	OIL	32	12	26	18	19	31	24	32	21	14	28	8	265F 469
	GAS	2180	2915	2088	3059	3715	3213	3556	3614	3080	3326	2419	1626	25091
NEWTON A														
34-26N 8W	OIL	22	26	19	32	26	20	14	19	8	37	13	17	302P 933
	GAS	1553	1274	1220	1206	1103	1070	1152	1099	956	1239	968	522	13265
	WAT							2						2
34-26N 8W	OIL													P 53
	GAS													
34-26N 8W	OIL	187	289	255	168	284	259	226	232	220	268	169		2557
	GAS	32	28	108	17	30	33		141	57	50			536F 1852
1-4-1-26N 8W	OIL	2575	2469	2943	1247	2312	2742	2909	3748	2043	2592	549	48	26167
	GAS	2			1									3
	WAT													14F 1437
2-3-1-26N 8W	OIL	18	4	15	18	12	8	20	21	25	43	4	427	16932
	GAS	1925	1497	1915	956	1506	937	1295	1783	1290	2347	953	17	1026 4275
LEASE TOTAL	OIL	132	58	142	67	69	61	34	240	90	130	17	997	58913
	GAS	6241	5529	6333	3577	5305	5008	5582	6862	4509	6436	2539		5
	WAT	2			1			2						
WILSON														
32-27-26N 8W	OIL	172	101	100	199	103	25		159	100	97	100	257	1532P 6052
	GAS	1929	1597	1552	1302	1143	672		1924	1909	1671	922	1751	16991
STATE														
32 32-26N 8W	OIL	47	66	90	75	65	52	30	70	59	63	39	55	799P 2764
	GAS	4993	4062	4269	4168	4250	4313	4746	4670	2874	4527	2862	2779	48513
STATE 15														
4-15-24N 9W	OIL	52												52P 915
	GAS	1439		1264	1115	994	1135	1108	983	929	1015	934	405	11661
	WAT	2												2
COMPANY TOTAL	OIL	755	237	405	358	255	169	138	501	273	303	184	337	3665 14375
	GAS	16751	14003	15506	13722	15407	14311	15392	18055	13300	16895	9676	7965	171044
	WAT	4			1			2						7
UNDES GALLUP (RA) 7M TO 8M				GP	7M TO 8M									
AMOCO PRODUCTION CO														
ARCHER FEDERAL SAN CANYON														
1E-24-24N 2W OIL							126						1260	354
UNDES MISSISSIPPIAN (SJ) 7M TO 8M MI					7M TO 8M									
AMOCO PRODUCTION CO														
USA SECTION 18														
34-31-29N 16W OIL													U	
UNDES GREENHORN (SJ) 6M TO 7M				GH	6M TO 7M									
BARGMAN OIL AND GAS INC.														
1-22 SALT														
1-22-25N10W	OIL	7	28	17	19	16	11	22	17	23	12	19	27	214P 1418
	GAS	952	406	47	208	319	110	292	221	275	325	280	329	3764
CANYON ENERGY CORP.														
BARGER														
8 2E-11-25N10W	OIL	141	88	8				1				130	137	505F 4375
	GAS		11381	2249								13289	14895	41814
	WAT		24	2								29	45	100
DYSON PRODUCTION CORPORATION														
BIG EIGHT														
1E 8-24N 9W OIL	LAST PROD. DATE 05/79												U	121
MERIDIAN OIL INCORPORATED														
NAVAJO A-2 UNIT 55														
16-31-25N 9W OIL	LAST PROD. DATE 08/76												U	1126
UNDES GALLUP (RA) 6M TO 5M				GA	6M TO 5M									
ECO INCORPORATED														
9 323N 7W	OIL	49	73	80	77	83	70	71	63	73	76	71	54	879P 7149
	GAS	291	251	276	266	290	260	264	243	264	279	272	197	3142
	WAT	8	6	8	8	8	6	5	5	5	6	5	5	76
323N 7W	OIL	60	50	49	53	57	48	49	43	50	52	49	48	614F 6584
	GAS	193	172	190	183	198	178	181	167	181	190	185	175	2193
	WAT	6	4	4	6	6	4	4	3	4	4	4	4	53
323N 7W	OIL	102	85	94	91	97	82	83	74	85	89	83	82	1047P 9740
	GAS	329	294	324	312	339	305	308	286	308	325	317	298	3745
	WAT	10	7	7	10	10	7	6	6	6	6	7	6	88
323N 7W	OIL	107	87	92	69	72	64	61	55	60	60	54	70	841G 1771
	GAS	345	298	285	237	254	237	225	212	219	221	207	256	2990
	WAT	11	12	8	6	6	5	5	4	4	5	4	5	45
LEASE TOTAL	OIL	357	295	311	290	309	264	264	235	268	277	257	254	3381 25244
	GAS	1148	1015	1075	998	1091	980	978	908	972	1014	981	926	12076
	WAT	46	29	25	30	30	22	21	18	19	21	21	20	302
STATE N														
34 223N 7W	OIL	60	52	56	54	50	44	45	47	49	50	46	48	601G 4704
	GAS	195	180	192	185	176	165	168	181	180	181	174	174	2151
	WAT	6	5	4	4	4	4	4	4	4	6	4	4	53
43 223N 7W	OIL	103	101	103	105	94	88	94	91	104	102	88	99	1172P 10699
	GAS	331	347	354	363	328	325	346	352	379	375	334	361	4195
	WAT	8	8	8	9	8	7	9	9	11	11	8	8	104
LEASE TOTAL	OIL	163	153	159	159	144	132	139	138	153	152	134	147	1773 15403
	GAS	526	527	546	548	504	490	514	533	559	556	508	535	6346
	WAT	14	13	12	13	12	11	13	13	15	17	12	12	157
COMPANY TOTAL	OIL	520	448	470	449	453	396	403	373	421	429	391	401	5154 40647
	GAS	1674	1542	1621	1546	1582	1470	1492	1433	1531	1570	1484	1461	18522
	WAT	60	42	37	43	42	33	34	31	34	38	33	32	459

COPY

WELL S T R	JAN	FEB	MAR	APRIL	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC 1986	PROD MP	ACCUM
UNDES GRANERO (SJ) 5M TO 6M GR 5M TO 6M														
HARRY L. BIGBEE														
NANCY														
4F1224N 8W OIL RECOMPLETED TO UNDES MANCOS (SJ) 6M TO 7M														4671
UNDES GRANERO (SAND) 5M TO 6M GR 5M TO 6M														
DEWEY A. GLOVER, JR.														
JICARILLA A														
1P2923N 3W OIL PLUGGING APPROVED 1970														12864
UNDES DAKOTA (RA) 7M TO 8M DK 7M TO 8M														
AMOCO PRODUCTION CO														
AMOCO FEDERAL DSD CANYON														
1E2424N 2W OIL LAST PROD. DATE 04/85													U	1280
UNDES DAKOTA (SAND) 7M TO 8M DK 7M TO 8M														
NORTH AMERICAN EXPLORATION CORP														
CROSSWISE														
1M3123N 2W OIL PLUGGING APPROVED 1977														2817
UNDES PARADOX (SJ) 7M TO 8M PP 7M TO 8M														
SUN OIL COMPANY														
NAVAJO TABLE MESA														
1N2728N17W OIL PLUGGING APPROVED 1972														22302
2J2728N17W OIL PLUGGING APPROVED 1972														47533
COMPANY TOTAL OIL														69835
UNDES. OJO ALAMO (SJ) OA OM TO 5M														
LEE M. CRANE														
MARTIN														
1N3430N11W OIL													F	4264
GAS	431	265	556	595	481	405	348	422	404	414	408	255	4984	

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CONTINUED LINDRITH GALLUP-DAKOTA,WEST

WELL S T R		JAN	FEB	MAR	APRIL	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	1986 PROD MP	ACCUM
3E 324N 5W	OIL	68	176	69	177	143	147	125	103				31	1039F	39618
	GAS	4638	5966	6139	7816		6677	6223	5671				4533	47653	
	WAT		3			4	12	6	11				11	47	
4G 924N 5W	OIL	29	25	45	30	29	43	22	14				20	255P	17437
	GAS	2347	1995	1600	48			2009	1833				2539	12421	
	WAT		2			3	10	5	9				3	31	
6M3425N 5W	OIL	82	79	7	175	58	46	75	50				90	662F	15630
	GAS	2466	2417	263	1832	2346	2439	2218	1953				1772	17606	
	WAT					7	5	13	6				16	47	
9D1324N 5W	OIL	3	12	5	3			2	2					32F	1861
	GAS	983	799	944	979	946	731	534	467					5380	
	WAT		2					5	6					13	
10D 924N 5W	OIL	6	5	7	5	5	3	7	2					40F	597
	GAS	1284	1302	1001	1231	1090	1298	1249	936					9391	
	WAT							9						9	
LEASE TOTAL	OIL	226	433	285	486	349	332	339	232				250	2932	136520
	GAS	15632	22170	17189	21532	13170	18014	17621	15214				14132	154674	
	WAT		9			17	39	43	31				35	169	
JICARILLA N 1K 424N 5W	OIL	58	62	54	51	53	79	59	2				12	430P	11601
	GAS	4059	5059	3902	3815	3136	4523	3461	2234				1427	31616	
	WAT		4			6	11	8	6				8	43	
2N 324N 5W	OIL	42	20	25	19	12	21	20	9	14	11	11	19	223F	15982
	GAS	1649	1129	1290	483	177	299	201	2256	837	555	564	638	10078	
	WAT		2			4	8	24	5	8		9	13	73	
3O 424N 5W	OIL					219	130	181	102			52	169	1226F	1226
	GAS				373	12276	6856	13975	10275		2495		12625	58502	
	WAT					3	7	19	15				32	76	
4P 324N 5W	OIL	20	15	10	12	27	19	17	15					135F	1080
	GAS	2235	2252	2496	2200	3045	2732	2087	1598					18645	
	WAT		5			8	8	11	7					39	
LEASE TOTAL	OIL	120	97	89	455	311	249	277	128	14	11	63	200	2014	29789
	GAS	7943	8440	7688	6498	18634	14410	19724	16363	837	3050	564	14690	118841	
	WAT		11			21	34	62	33	8		9	53	231	
JICARILLA O 1M1022N 3W	OIL	LAST PROD. DATE 02/85												S	9557
COMPANY TOTAL	OIL	563	966	431	941	668	949	948	1135	244	54	112	796	7907	266798
	GAS	62460	69663	45880	46944	44903	62685	93516	84355	15334	16868	6229	56922	605859	
	WAT		20			38	93	151	118	17	5	13	112	567	

LONE PINE DAKOTA D OD OM TO 5M

BASIN FUELS INCORPORATED

WELL S T R		STATUS	CODE	ACCUM
BSR EDNA 1F 417N 8W	OIL	PLUGGING APPROVED 1975		39823

TENNECO OIL COMPANY
LONE PINE DAKOTA D UNIT

WELL S T R		STATUS	CODE	ACCUM
1L 817N 8W	OIL	PLUGGING APPROVED 1984		164862
2I 717N 8W	OIL	PLUGGING APPROVED 1980		2333
3J 717N 9W	OIL	LAST PROD. DATE 12/76	U	42618
4K 717N 8W	OIL	LAST PROD. PRIOR TO 6/73	U	9020
5PL217N 9W	OIL	PLUGGING APPROVED 1981		54
6N 717N 8W	OIL	LAST PROD. DATE 05/80	U	34058
7P 717N 8W	OIL	PLUGGING APPROVED 1980		227230
8M 817N 8W	OIL	PLUGGING APPROVED 1984		231056
9O1717N 8W	OIL	PLUGGING APPROVED 1984		40411
10B1817N 8W	OIL	PLUGGING APPROVED 1981		229646
11O1817N 8W	OIL	PLUGGING APPROVED 1981		55404
12?1317N 9W	OIL	INJECTION WELL	I	34274
13F1317N 9W	OIL	LAST PROD. DATE 12/76	U	153
14M1317N 9W	OIL	INJECTION WELL	I	344561
15F1517N 8W	OIL	PLUGGING APPROVED 1981		104892
16M1817N 8W	OIL	PLUGGING APPROVED 1981		
17L1717N 8W	OIL	INJECTION WELL	I	
18I1817N 8W	OIL	PLUGGING APPROVED 1981		43996
19J1817N 8W	OIL	PLUGGING APPROVED 1981		75716
20K1817N 8W	OIL	PLUGGING APPROVED 1981		174764
21L1817N 9W	OIL	PLUGGING APPROVED 1981		233279
22J1317N 9W	OIL	PLUGGING APPROVED 1980		101122
23K1317N 9W	OIL	LAST PROD. PRIOR TO 6/73	U	53216
24N1317N 9W	OIL	PLUGGING APPROVED 1930		114890
25P1317N 9W	OIL	PLUGGING APPROVED 1980		112972
27B2417N 9W	OIL	PLUGGING APPROVED 1980		63024
28C2417N 9W	OIL	LAST PROD. PRIOR TO 6/73	U	55136
29E 817N 8W	OIL	LAST PROD. DATE 12/79	U	44450
COMPANY TOTAL	OIL			2568537

LYBROOK GALLUP GP 5M TO 6M

WELL S T R		JAN	FEB	MAR	APRIL	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	1986 PROD MP	ACCUM
ACV INCORPORATED BETTY 3 1C1523N 7W	OIL	56	46	52	46	55	50	40	44	45	36	46	42	558G	21352
	GAS	168	138	156	138	165	150	120	132	135	108	138	126	1674	
	WAT			1		1	1		1	1	3	3	1	12	
CAMPOS 1J1023N 7W	OIL	30	33	43	65	96	92	94	90	86	69	83	84	865G	76281
	GAS	302	504	766	766	1588	1790	367	1997	1721	972	1485	1251	13509	
	WAT				1	2	1	1	1	1	1	1	1	10	
2K 423N 7W	OIL	205	195	220	179		38	72	81	88	97	114	118	1407G	148961
	GAS	1366	922	1062	1062	50	1209		1594	1641	1196	1131	946	12179	
	WAT	8	4	13	11		3	3	3	4	12	14	14	59	
LEASE TOTAL	OIL	235	228	263	244	96	130	166	171	174	166	197	202	2272	225242
	GAS	1668	1426	1828	1828	1638	2999	367	3591	3362	2168	2616	2197	25693	
	WAT	[illegible]	4	13	12	2	4	4	4	5	13	15	15	69	
DUNN 1M1023N 7W	OIL	ZONE ABANDONED													4979
2F1023N 7W	OIL	276	97	99	92	101	77	63	83	71	77	49	72	1157P	10142
	GAS	1656	1278	1308	903	339	259	213	281	238	260	165	243	7143	
	WAT	116	50	51	48	49	32	26	35	30	32	21	37	537	
4O 923N 7W	OIL	231	197	208	211	198	177	178	158	180	186	172	175	2271F	21904
	GAS	2945	2691	2848	2888	2751	2612	2614	2450	2602	2706	2615	2548	32270	
	WAT	23	20	18	23	18	16	21	17	15	22	15	16	234	
5C 923N 7W	OIL	83	74	78	84	70	64	70	61	74	73	73	75	979P	12910
	GAS	1058	1011	1068	1150	972	945	1028	946	1070	1062	1110	1092	12512	
	WAT	7	7	7	8	6	5	6	5	7	7	7	6	78	
6F 923N 7W	OIL	84	74	78	83	69	63	70	60	73	73	72	74	873P	11232
	GAS	1071	1011	1068	1136	959	930	1028	930	1055	1062	1095	1077	12422	
	WAT	7	7	7	7	6	5	6	5	7	7	7	6	77	
7K 923N 7W	OIL	249	213	236	235	230	206	211	202	215	196	203	206	2602P	23419
	GAS	3174	2909	3232	3216	3195	3040	3099	3132	3108	2852	3086	2999	37042	
	WAT	2	3	2	5	3	2	3	1	4	10	2	2	39	
8E 923N 7W	OIL	92	69	78	79	74	67	67	57	65	70	64	63	849F	15369
	GAS	1173	942	1068	1081	1028	989	984	984	983	1018	973	917	12040	
	WAT	7	7	7	9	7	6	8	6	6	8	6	6	83	
9B 323N 7W	OIL	262	219	240	232	249	211	215	188	218	228	214	210	2686P	17658
	GAS	3235	2896	3171	3063	3335	2994	3036	2798	3033	3191	3123	2941	36806	
	WAT	26	19	18	26	25	17	17	14	16	17	17	16	228	
10A 323N 7W	OIL	180	150	165	159	170	144	147	129	150	156	146	144	1840G	14294
	GAS	2222	1977	2180	2099	2278	2043	2076	1919	2087	2184	2133	2017	25215	
	WAT	18	13	13	17	17	12	11	10	11	11	12	11	156	
11M 323N 7W	OIL	307	257	282	272	291	247	251	221	255	267	250	243	3145P	22813
	GAS	3789	3386	3726	3593	3898	3504	3545	3288	3548	3738	3650	3411	43094	
	WAT	31	23	21	30	29	20	20	17	19	19	20	19	269	
12O 323N 7W	OIL	322	260	248	206	218	192	183	164	181	182	163	162	2481F	3409
	GAS	3973	3427	3275	2720	2917	2724	2586	2440	2515	2546	2378	2270	33771	
	WAT	63	36	24	18	17	15	14	12	13	15	13	14	254	
LEASE TOTAL	OIL	2086	1610	1713	1653	1670	1448	1455	1323	1485	1508	1406	1426	18792	158149
	GAS	24296	21518	22944	21949	21672	20040	20209	19068	20239	20619	20128	19537	252319	
	WAT	300	185	168	191	177	130	132	122	128	149	120	133	1934	
FEDERAL A 1E2323N 7W	OIL	54	44	52	49	47	44	46	37	43	50	43	40	549G	15277
	GAS	146	179	228	234	219	201	219	189	176	242	192	191	2415	
	WAT	9	8	9	9	8	7	7	7	8	9	8	7	96	
FEDERAL B 2212223N 7W	OIL	29	31	40	36	27	29	31	18	28	38	29	25	361G	9220
	GAS	225	325	435	459	463	394	456	488	379	480	415	459	4978	
	WAT	10	11	14	13	9	10	11	6	10	13	10	9	126	
STATE H 1G 223N 7W	OIL	49	47	49	49	43	39	44	35	41	42	38	45	521P	24401
	GAS	930	840	900	900	900	970	930	930	900	930	840	930	10800	
	WAT			1	1			1	1	1	1	1	2	9	
2K 223N 7W	OIL	49	46	49	49	43	38	43	34	41	41	37	44	514G	21839
	GAS	930	840	870	900	900	840	930	930	900	930	840	930	10740	
	WAT			1	1			1	1	1	1	1	2	9	
3L 223N 7W	OIL	182	157	167	161	151	134	137	140	149	149	137	143	1807F	14996
	GAS	2245	2068	2207	2126	2022	1901	1934	2084	2072	2087	2001	2004	24751	
	WAT	17	14	13	13	13	11	12	11	12	16	12	13	157	

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WELL S T R		JAN	FEB	MAR	APRIL	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	1986 PROD MP	ACCUM
4D 223N 7W	OIL	308	303	308	316	288	263	282	272	313	308	263	296	3514P	25913
	GAS	3801	3994	4070	4172	3778	3732	3984	4047	4353	4310	3840	4146	48227	
	WAT	25	24	25	27	23	20	28	26	32	34	24	24	312	
LEASE TOTAL	OIL	588	553	573	575	519	474	506	481	544	540	475	528	6356	87209
	GAS	7906	7742	8047	8098	7600	7343	7778	7991	8225	8257	7521	8010	94518	
	WAT	42	38	40	42	36	31	42	39	46	52	38	41	487	
COMPANY TOTAL	OIL	3048	2512	2692	2603	2414	2175	2244	2074	2319	2338	2196	2263	28878	516449
	GAS	34409	31328	33638	32606	31757	31127	29149	31458	32516	31874	31210	30520	381592	
	WAT	369	246	245	267	233	183	196	179	198	238	194	206	2754	
BYRON OIL INDUSTRIES															
DUNN FEDERAL															
1J 423N 7W	OIL	63	63	62	68	47	46	25	45	57	51	43	48	618F	29669
	GAS	1662	1817	1578	934	1177	485	553	781	667	654	840	693	11841	
	WAT									8				8	
2P 423N 7W	OIL	230	267	275	457	383	372	366	337	340	293	301	299	3920F	19604
	GAS	5368	5614	4302	8149	7490	6940	5191	5731	4301	5428	4657	4410	67581	
LEASE TOTAL	OIL	293	330	337	525	430	418	391	382	397	344	344	347	4538	49273
	GAS	7030	7431	5880	9083	8667	7425	5744	6512	4968	6082	5497	5103	79422	
	WAT									8				8	
HANSON FEDERAL															
1L 323N 7W	OIL	222	195	204	112	228	125	133	156	125	113	134	136	1881F	67639
	GAS	2494	2726	2367	1401	1766	727	829	1172	1005	983	1259	1037	17766	
	WAT					7	44							51	
2N 323N 7W	OIL	175	161	146	155	146	158	140	151	135	129	103	118	1717F	9845
	GAS	3461	3379	2736	3609	2460	3177	3143	2801	1597	2373	1932	2720	33388	
LEASE TOTAL	OIL	397	356	350	267	374	283	273	305	260	242	237	254	3598	77484
	GAS	5955	6105	5103	5010	4226	3904	3972	3973	2602	3356	3191	3757	51154	
	WAT					7	44							51	
LYBROOK															
1O 423N 7W	OIL					414	305	232	199	187	181	180	144	1842F	1842
	GAS					3327	2451	2687	2292	2930	2485	2243	2604	20019	
	WAT					53	30	31	31	15	15			175	
2I 423N 7W	OIL				100	875	572	497	524	485	487	423	437	4400F	4400
	GAS					8542	5584	1782	2349	2833	2040	1627	1326	26083	
	WAT				85	27	15	15	15	15	16			188	
LEASE TOTAL	OIL				100	1289	877	729	723	672	668	603	581	6242	6242
	GAS					11869	8035	3469	4641	5763	4525	3870	3930	46102	
	WAT				85	80	45	46	46	30	31			363	
COMPANY TOTAL	OIL	690	686	687	892	2093	1578	1393	1410	1329	1254	1184	1182	14378	132999
	GAS	12985	13536	10983	14093	24762	19364	13185	15126	13333	13963	12558	12790	176678	
	WAT				85	87	89	46	46	38	31			422	
JACK A COLE															
MARCUS															
3I 723N 6W	OIL	130	115	140	89	96	89	57	77	66	84	89	60	1092F	1536
	GAS	1256	1078	1459	824	1051	1023	973	755	779	688	631	514	11031	
5E 623N 6W	OIL	254	193	230	188	214	160	206	217	164	182	172	161	2341F	2801
	GAS	7550	5892	5399	5657	4811	4409	4665	4707	4340	3930	4825	4143	60328	
6A 123N 7W	OIL	230	179	176	154	154	148		117	103	115	113	95	1584F	1916
	GAS	7340	6115	6189	6918	4780	4345	8173	5345	4854	4251	4228	3769	66307	
7N 123N 7W	OIL											125	200	325F	225
	GAS										2213	3514	3249	8976	
8B1223N 7W	OIL											32	23	55P	55
	GAS											2172	2814	4986	
LEASE TOTAL	OIL	614	487	546	431	464	397	263	411	333	381	531	539	5397	6633
	GAS	16146	13085	13047	13399	10642	9777	13811	10807	9973	11082	15370	14489	151628	
MARCUS A															
13I 123N 7W	OIL														
	GAS														
15O 123N 7W	OIL									179	176	142	107	604F	604
	GAS							8173	6748	5830	4814	4646	3833	34044	
16C1223N 7W	OIL											230	4725	4955F	
	GAS											2089	2603	4692F	
LEASE TOTAL	OIL									179	176	142	107	634	604
	GAS							8173	6748	5830	4814	6965	11161	43691	
COMPANY TOTAL	OIL	614	487	546	431	464	397	263	511	512	557	673	646	6031	7237
	GAS	16146	13085	13047	13399	10642	9777	21984	17555	15803	15896	22335	25650	195319	
DIETRICH RESOURCE CORP.															
E-TUN-NAH-GAH															
43I 823N 7W	OIL	157	137	140	144	121	158	136	111	112	138	162	21	1537P	11258
	GAS	1342	1092	1191	1131	1165	1172	1105	1103	622	875	977	1101	12476	
	WAT	31	28	31	30	31	31	31	30	19	25	30	31	348	
FEDERAL 6															
22F 623N 7W	OIL	34	32	36	28	30	18	38				20		236P	3712
	GAS	210	185	211	193	200	197	179	184	161	216	194	176	2306	
	WAT	31	28	31	30	31	31	31	13	30	31	30	31	345	
MAT TAH E YAZZA															
1C 923N 7W	OIL	57	52	48	32		74	59	56	54	58	9	19	518P	8083
	GAS	1257	1105	1181	1115	1100	1047	947	1234	1086	1120	939	759	12898	
	WAT	31	28	31	27	31	31	31	28	30	31	30	31	360	
COMPANY TOTAL	OIL	248	221	224	204	151	250	233	167	166	196	191	40	2291	23053
	GAS	2809	2382	2583	2439	2465	2416	2231	2521	1869	2211	2109	2035	28370	
	WAT	93	84	93	87	93	93	93	71	79	87	90	93	1056	
DUGAN PRODUCTION CORPORATION															
ADOBE															
1A 523N 7W	OIL													F	17169
	GAS	178	160	183	174	158	54	44	55	2		21	9	1038	
BALLYMALOE															
2K2523N 7W	OIL	136	79	207	176	165	164	163	62	145	169	162	90	1718P	4991
	GAS	1281	1637	1829	1522	1408	1606	1589	1008	1335	1575	1253	1221	17264	
	WAT	10	13	16	15	15	15	16	8	14	16	15	14	167	
BUMBLE															
2O2724N 6W	OIL	187	172	181	169	175	179	173	24	128	210	5	184	1787F	11527
	GAS	453	418	449	406	381	342	394	106	186	354	32	293	3814	
	WAT	16	14	16	15	16	15	16	7	7	15	1	10	148	
KENNY															
1D3623N 7W	OIL										140	219	350	709F	709
	GAS										60	1073	2452	3585	
	WAT										25	27	36	88	
KINSALE															
2I2623N 7W	OIL	145	136	147	125	136	125	136	18	151	169	134	122	1544F	7103
	GAS	676	623	719	579	537	631	602	367	568	666	651	519	7137	
	WAT	16	14	16	15	16	15	16	8	14	16	15	16	177	
LAVA FALLS															
1J2724N 8W	OIL	238	235	237	234	225	219	206	29	150	256	9	207	2293F	16384
	GAS	974	845	835	775	848	755	799	255	470	820	81	636	8093	
PHANTOM RANCH															
1F2124N 8W	OIL	178	198	229	195	180	200	181	2	173	220	8	221	1995P	3612
	GAS	578	527	552	574	534	536	568	145	290	487	46	305	5142	
	WAT	8	7	8	8	8	8	8	2	4	7	1	4	73	
SAPP C															
1M 523N 7W	OIL	23	23	19	23	22	23	21	24	24	25	18	19	264F	19962
	GAS	468	449	453	425	300	408	277	500	493	445	432	399	5049	
2O 523N 7W	OIL	186	174	208	160	197	172	156	146	110	106	189	278	2082P	13396
	GAS	2196	1698	2276	1854	1754	1896	1540	1881	1265	1168	1309	3409	22225	
3O 523N 7W	OIL	102	90	97	86	94	64	85	81	56	88	86	33	962F	8562
	GAS	1341	1329	1455	1357	1260	1230	1287	1534	1328	1370	1397	922	15810	
	WAT	16	14	16	15	16	15	16	16	15	16	15	16	186	
LEASE TOTAL	OIL	311	287	324	269	313	279	262	251	190	219	293	330	3328	41923
	GAS	3995	3466	4184	3636	3314	3534	3104	2915	3086	2983	3137	4730	43084	
	WAT	16	14	16	15	16	15	16	16	15	16	15	16	186	
STATE															
1E3224N 7W	OIL	127	122	137	126	117	111	92		46	96	93	88	1145P	65533
	GAS	1139	1099	1222	1203	1062	1146	986	477	755	1022	874	931	11915	
COMPANY TOTAL	OIL	1372	1229	1462	1294	1311	1277	1211	386	983	1469	923	1592	14509	168993
	GAS	9273	8775	9972	8369	8242	8604	8086	6328	6692	7967	7168	11096	101072	
	WAT	66	62	72	68	71	68	72	41	54	95	74	96	839	
FLAG-REDFERN OIL CO															
BETTY C 31															
2C3124N 7W	OIL	30	20	35	36	31	27	35	9	31	28	24	27	333P	22059
	GAS	1104	963	1099	1088	925	950	862	963	1049	1057	879	934	11873	
3K3124N 7W	OIL	120	78	139	142	123	139	140	36	124	114	97	109	1331P	5909
	GAS	945	826	942	933	793	815	739	826	903	906	754	800	10180	
4M3124N 7W	OIL	153	100	178	182	157	139	179	46	159	145	123	140	1701P	15224
	GAS	749	654	746	738	627	645	585	654	712	718	597	633	8058	
5I3124N 7W	OIL	30	19	35	35	31	27	35	10	31	29	24	27	333P	7236
	GAS	1144	997	1139	1127	958	984	892	998	1087	1095	910	967	12298	
	WAT	1	1	1	1	1	1	1	1	1	1	1	1	12	
6C3124N 7W	OIL	38	54	56	91	30	60		41	42	68	62	53	595P	7470
	GAS	111	105	177	165	151	160	52	61	121	128	113	145	1489	
COMPANY TOTAL	OIL	371	271	443	486	372	362	389	142	387	384	330	356	4293	57398
	GAS	4054	3545	4103	4351	3454	3554	3130	3502	3869	3904	3253	3479	43898	
	WAT	1	1	1	1	1	1	1	1	1	1	1	1	12	

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EXHIBIT G

Form 3160-4 AMENDED AT REQUEST OF OIL CONSERVATION DIVISION TO REPORT GRANEROS & GALLUP SEPARATELY

(November 1983) (formerly 9-330)

UNITE STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN DUPLICA (See other instructions on reverse side)

Form approved. Budget Bureau No. 1004-0137 Expires August 31, 1985

WELL COMPLETION OR RECOMPLETION REPORT AND LOG*

1a. TYPE OF WELL: OIL WELL [X] GAS WELL [ ] DRY [ ] Other

b. TYPE OF COMPLETION: NEW WELL [X] WORK OVER [ ] DEEP-EN [ ] PLUG BACK [ ] DIFF. RESVR. [ ] Other

2. NAME OF OPERATOR: BCO, INC.

3. ADDRESS OF OPERATOR: 135 Grant Avenue, Santa Fe, New Mexico 87501

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)*
At surface: 990' FSL 1800' FEL Sec 3 T23N, R7W, N.M.P.M. Rio Arriba County New Mexico
At top prod. interval reported below: Same
At total depth: Same

5. LEASE DESIGNATION AND SERIAL NO.: SF-078272

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7. UNIT AGREEMENT NAME:

8. FARM OR LEASE NAME: Dunn

9. WELL NO.: 12

10. FIELD AND POOL, OR WILDCAT: Lybrook Gallup

11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA: Sec 3 T23N R7W

12. COUNTY OR PARISH: Rio Arriba

13. STATE: New Mexico

14. PERMIT NO. / DATE ISSUED:

15. DATE SPUDDED: June 9, 1985

16. DATE T.D. REACHED: June 17, 1985

17. DATE COMPL. (Ready to prod.): September 10, 1985

18. ELEVATIONS (DF, RKB, RT, GR, ETC.)*: 7020 GR

19. ELEV. CASINGHEAD: 7023

20. TOTAL DEPTH, MD & TVD: 6477

21. PLUG, BACK T.D., MD & TVD: 6475

22. IF MULTIPLE COMPL., HOW MANY*: Two

23. INTERVALS DRILLED BY: → ROTARY TOOLS: XX CABLE TOOLS:

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)*: Gallup - 5394-6286

25. WAS DIRECTIONAL SURVEY MADE: Yes-Filed

26. TYPE ELECTRIC AND OTHER LOGS RUN: Cement Bond Log Computer Laser, Induction Log, Compensated Density Dual Spaced Neutron Log

27. WAS WELL CORED: No

28. CASING RECORD (Report all strings set in well)

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
8-5/8"	J-55 24#	307	12¼"	180 Sacks - Class B	
4½"	N-80 11.6#	6597	7-7/8"	1950 Sacks - Class H	

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)

30. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)
2-3/8"	6369'	

31. PERFORATION RECORD (Interval, size and number)
One 3-1/8".32 diameter select fire shot at 6286, 6278, 6276, 6270, 6266, 5566, 5549, 5530, 5523, 5520, 5517, 5419, 5406, 5400, 5394

32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED			
	Gal. #'s	SCF	Foam	
6266-6286	Acid	Sand	Nitrogen	Gal
5394-5566	1500	300,000	5,400,600	200,000
	1500	275,000	3,371,160	124,000

33.* PRODUCTION

DATE FIRST PRODUCTION	PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump)	WELL STATUS (Producing or shut-in)
9/4/85	Flow	Shut-in

DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO
9/10/85	24	18/64	→	36	180	8 (frac)	5000

FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-API (CORR.)
700	680	→	33	180	8 (frac)	40

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.): Vented

TEST WITNESSED BY: Robert Ramirez

35. LIST OF ATTACHMENTS: Cementing Record

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records

SIGNED Elizabeth B. Keeshan TITLE Comptroller DATE 10/4/85

*(See Instructions and Spaces for Additional Data on Reverse Side)

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

Form C-105
Revised 10-1-78

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

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OIL CONSERVATION DIVISION

P. O. BOX 2088
SANTA FE, NEW MEXICO 87501

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

5a. Indicate Type of Lease: State [X] Fee

5. State Oil & Gas Lease No.: LG 3748

7. Unit Agreement Name:

8. Farm or Lease Name: State H

9. Well No.: 4

10. Field and Pool, or Wildcat: Lybrook Gallup & Undesignated Graner

1a. TYPE OF WELL: OIL WELL [X] GAS WELL [ ] DRY [ ] OTHER

b. TYPE OF COMPLETION: NEW WELL [ ] WORK OVER [X] DEEPEN [ ] PLUG BACK [X] DIFF. RESVR. [ ] OTHER

2. Name of Operator: BCO, Inc.

3. Address of Operator: 135 Grant Avenue, Santa Fe, New Mexico 87501

4. Location of Well: UNIT LETTER D LOCATED 970 FEET FROM THE N LINE AND 910 FEET FROM THE W LINE OF SEC. 2 TWP. 23N RGE. 7W NMPM

12. County: Rio Arriba

15. Date Spudded	16. Date T.D. Reached	17. Date Compl. (Ready to Prod.)	18. Elevations (DF, RKB, RT, GR, etc.)	19. Elev. Cashinghead
8-31-80	9-11-80	8-19-81 Gallup & Graneros 11-16-80 Graneros	6904 GR	6906

20. Total Depth	21. Plug Back T.D.	22. If Multiple Compl., How Many	23. Intervals Drilled By	Rotary Tools	Cable Tools
6505	6426	two	→	XX	

24. Producing Interval(s), of this completion — Top, Bottom, Name
5318-5557 Gallup
6272-6277 Graneros Co-mingled under Order # R-6719

25. Was Directional Survey Made: yes filed 9-18-80

26. Type Electric and Other Logs Run: Induction Electrical, Compensated Density, Compensated Neutron, Gamma Ray Bond Log

27. Was Well Cored: No

28. CASING RECORD (Report all strings set in well)

CASING SIZE	WEIGHT LB./FT.	DEPTH SET	HOLE SIZE	CEMENTING RECORD	AMOUNT PULL
8 5/8	23.0	294	12 1/4	200 sacks	
4 1/2	11.6	6503	7 7/8	1400 sacks	

29. LINER RECORD

SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN

30. TUBING RECORD

SIZE	DEPTH SET	PACKER SET
2 3/8	6277	

31. Perforation Record (Interval, size and number)
One 3 1/8" select fire shot at 5557, 5546, 5512, 5506, 5488, 5480, 5454, 5450, 5446, 5442, 5406, 5340, 5326, 5322, 5318

6272-6277 3 1/8" 5 shots

32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL	AMOUNT AND KIND MATERIAL USED
6272-6277	Previously reported
5318-5557	216,970 gallons water,
	315,000 # 10-20 sand, 1,891,
	standard cubic ft. of nitro

33. PRODUCTION

Date First Production: 1-16-80 Graneros; 8-19-81 Gallup

Production Method (Flowing, gas lift, pumping — Size and type pump): Well will be tested at a later date after NGPA filing made

Well Status (Prod. or Shut-in): SHUT IN

Date of Test	Hours Tested	Choke Size	Prod'n. For Test Period →	Oil — Bbl.	Gas — MCF	Water — Bbl.	Gas — Oil Ratio

Flow Tubing Press.	Casing Pressure	Calculated 24-Hour Rate →	Oil — Bbl.	Gas — MCF	Water — Bbl.	Oil Gravity — API (Corr.)

34. Disposition of Gas (Sold, used for fuel, vented, etc.): Sold thru BCO, Inc. North Lybrook Gathering Line

Test Witnessed By:

35. List of Attachments

COPY

36. I hereby certify that the information shown on both sides of this form is true and complete to the best of my knowledge and belief.

SIGNED Harry R Bell TITLE President DATE 8-19-81

Form C-105
Revised 10-1-78

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

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OIL CONSERVATION DIVISION

P. O. BOX 2088
SANTA FE, NEW MEXICO 87501

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

RECEIVED JUL 22 1981 OIL CON. COM. DIST. 3

5a. Indicate Type of Lease: State [X] Fee [ ]

5. State Oil & Gas Lease No.: LG 3748

7. Unit Agreement Name:

1a. TYPE OF WELL: OIL WELL [X] GAS WELL [ ] DRY [ ] OTHER

b. TYPE OF COMPLETION: NEW WELL [ ] WORK OVER [X] DEEPEN [ ] PLUG BACK [X] DIFF. RESVR. [ ] OTHER

8. Farm or Lease Name: State H

9. Well No.: 3

2. Name of Operator: BCO, Inc.

10. Field and Pool, or Wildcat: Lybrook Gallup & Undesignated Graneros

3. Address of Operator: 135 Grant Avenue, Santa Fe, New Mexico 87501

4. Location of Well: UNIT LETTER M LOCATED 990 FEET FROM THE S LINE AND 990 FEET FROM THE W LINE OF SEC. 2 TWP. 23N RGE. 7W NMPM

12. County: Rio Arriba

15. Date Spudded	16. Date T.D. Reached	17. Date Compl. (Ready to Prod.)	18. Elevations (DF, RKB, RT, GR, etc.)	19. Elev. Cashinghead
9-14-80	9-25-80	7-14-81 Gallup & Dakota 11-18-80 Dakota	6968 GR	6970

20. Total Depth	21. Plug Back T.D.	22. If Multiple Compl., How Many	23. Intervals Drilled By	Rotary Tools	Cable Tools
6545	6453	two	→	XX	

24. Producing Interval(s), of this completion — Top, Bottom, Name
5364-5602 Gallup
6326-6331 Dakota Co-mingled under Order # R-6719

25. Was Directional Survey Made: Yes
Filed 10-9-80

26. Type Electric and Other Logs Run: Induction Electrical, Compensated Density, Compensated Neutron, CBL Gamma Ray, and Correlation Log.

27. Was Well Cored: No

28. CASING RECORD (Report all strings set in well)

CASING SIZE	WEIGHT LB./FT.	DEPTH SET	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
8 5/8	23.0	296	12 1/4	200 sacks	
4 1/2	11.6	6543	7 7/8	1400 sacks	

29. LINER RECORD

SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN

30. TUBING RECORD

SIZE	DEPTH SET	PACKER SET
2 3/8	6350	

31. Perforation Record (Interval, size and number)
5364-5602 3 1/8" 15 shots or one shot at 5364, 5368, 5372, 5454, 5484, 5487, 5490, 5496, 5515, 5524, 5532, 5552, 5568, 5590, and 5602
6326-6331 3 1/8" 5 shots

32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL	AMOUNT AND KIND MATERIAL USED
6326-6331	Previously reported
5364-5602	94,000 gals. H_2O; 200,000 # 10-20 sand, 1,200,000 standard cubic ft. of nitrogen

33. PRODUCTION

Date First Production	Production Method (Flowing, gas lift, pumping — Size and type pump)	Well Status (Prod. or Shut-in)
11-18-80	Well to be tested at a later date	Shut In

Date of Test	Hours Tested	Choke Size	Prod'n. For Test Period →	Oil — Bbl.	Gas — MCF	Water — Bbl.	Gas — Oil Ratio
							Gal Dak

Flow Tubing Press.	Casing Pressure	Calculated 24-Hour Rate →	Oil — Bbl.	Gas — MCF	Water — Bbl.	Oil Gravity — API (Corr.)

34. Disposition of Gas (Sold, used for fuel, vented, etc.)
Sold thru BCO, Inc. North Lybrook Gathering Line

Test Witnessed By

COPY

35. List of Attachments

36. I hereby certify that the information shown on both sides of this form is true and complete to the best of my knowledge and belief.

SIGNED Harry R Beal TITLE President DATE 7-21-81

Form 9-330
(Rev. 5-63)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN DUPLICATE* (other instructions on reverse side)

Form approved.
Budget Bureau No. 42-R355.5.

WELL COMPLETION OR RECOMPLETION REPORT AND LOG*

5. LEASE DESIGNATION AND SERIAL NO.: SF-078272

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7. UNIT AGREEMENT NAME:

8. FARM OR LEASE NAME: Dunn

9. WELL NO.: 2

10. FIELD AND POOL, OR WILDCAT: Lybrook Gallup / Undes Greenhorn-Dakota

11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA: 10-23N-7W

1a. TYPE OF WELL: OIL WELL [X] GAS WELL [X] DRY [ ] Other

b. TYPE OF COMPLETION: NEW WELL [X] WORK OVER [ ] DEEP-EN [X] PLUG BACK [ ] DIFF. RESVR. [ ] Other

2. NAME OF OPERATOR: BCO, Inc.

3. ADDRESS OF OPERATOR: P. O. Box 669 Santa Fe, New Mexico 87501

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)*
At surface 2070' FNL 2260' FWL Section 10 T23N R7W N.M.P.M.
At top prod. interval reported below Same
At total depth Same

14. PERMIT NO.: | DATE ISSUED:

12. COUNTY OR PARISH: Rio Arriba | 13. STATE: New Mexico

15. DATE SPUDDED: 3/16/76 | 16. DATE T.D. REACHED: 4/20/76 | 17. DATE COMPL. (Ready to prod.): 5/11/76 Greenhorn-Dak. 9/23/76 Gallup | 18. ELEVATIONS (DF, RKB, RT, GR, ETC.)*: 7265 GR | 19. ELEV. CASINGHEAD: 7267

20. TOTAL DEPTH, MD & TVD: 6743 | 21. PLUG, BACK T.D., MD & TVD: Casing 6730, Open hole 6741 | 22. IF MULTIPLE COMPL., HOW MANY*: Co-mingle 3 zones | 23. INTERVALS DRILLED BY: → | ROTARY TOOLS: 0-6730 | CABLE TOOLS:

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)*: Gallup 5598-5931; Greenhorn 6485-6499; Dakota 6551-6743

25. WAS DIRECTIONAL SURVEY MADE: Yes

26. TYPE ELECTRIC AND OTHER LOGS RUN: Borehole compensated;Sonic-Gamma;F;Dual Induction;CBL;Dual Spacing TDT

27. WAS WELL CORED: No

28. CASING RECORD (Report all strings set in well)

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
8-5/8	24.70	142	12-1/4	100 Class B	
4-1/2	11.60	6730	7-7/8	3 stage 1050 sacks	

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)

30. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)
2-3/8	6712	

31. PERFORATION RECORD (Interval, size and number)

Upper Dakota 6724-6729 W/4SPF
Lower Graneros 6642-6647 W/2SPF
Upper Graneros 6551-56;6586-88 W/2SPF
Greenhorn 6485-87;6494-99 W/2SPF

Bottom Gallup 5759-60;5771-72;5778-79;5788-89;5802-03;5824-25;5836-37;5853-54;5873-74;5896-97;5913-1/2 - 14-1/2;5930-31 W/2SPF
Mayre 5715-22 W/2SPF 5723-25 W/4SPF
Skelly 5598-5612 W/2SPF

32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
6724-6735	500 15% 23M H_2O 15M 40-60
6642-6647	250 15% 27M H_2O 25M 20-40
6551-6588	250 15% 32M H_2O 10M 20-40 20M 1
6485-6499	250 15% 2000 28% 16M H_2O 15M 2 5M 10-20
5759-5931	500 15% 22M H_2O 22M 10-20
5715-5725	500 15% 20M H_2O 21M 10-20
5598-5612	500 15% 22M H_2O 21M 10-20

33.* PRODUCTION

	DATE FIRST PRODUCTION	PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump)	WELL STATUS (Producing or shut-in)
Gallup	9/28/76	Gas Lift	Producing
Greenhorn-Dakota	5/8/76	Gas Lift	Producing

	DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO
Gallup	10/13/76	24	Open	→	15	80	0	5333
Greenhorn-Dak	7/28/76	24	Open	→	1	269	7	

	FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-API (CORR.)
Gallup	Various	665-500	→	15	80	0	40
Greenhorn-Dak	Vari	735-640	→	1	269	7	45

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.): Sold to El Paso 11/11/76 via BCO gathering line to Sec 23 T24N R7W

TEST WITNESSED BY: H. R. Bigbee

35. LIST OF ATTACHMENTS: N.M.O.C.C Co-mingling order R-5310 Attached to Form 9-331 of this same date

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records.

SIGNED Harry R Bigbee TITLE President DATE 11/17/76

*(See Instructions and Spaces for Additional Data on Reverse Side)

COPY

EXHIBIT H

EXHIBIT H

Allocation Recommendation: Applicant recommends that the District Supervisor of the Aztec District Office of the Oil Conservation Division, after consultation with Applicant, make the allocation of production from the commingled zones once testing from the initial well drilled on the area of application has been completed.