



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 7/2/87

RE: Proposed MC _____
Proposed DHC 2 _____
Proposed NSL _____
Proposed SWD _____
Proposed WFX _____
Proposed PMX _____

Gentlemen:

I have examined the application dated 7/2/87
for the BCO Diana # 34 I-3-235
Operator Lease and Well No. Unit, S-T-R

and my recommendations are as follows:

Approve

Yours truly,

John D. Ch...

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

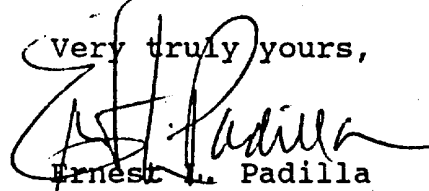
Re: Application of BCO, Inc. for Downhole
Commingling, Rio Arriba County, New Mexico

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:

Township 23 North, Range 7 West

(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.

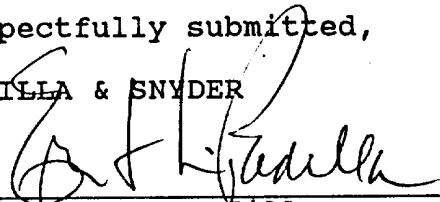
10. Attached hereto and incorporated herein by reference are Exhibits A through H in support of this application and which meet the requirements of Rule 303(C)(2).

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

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	DATE
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 Commission 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 recovery 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

REGY AND MINERALS DEPART
IL CONSERVATION DIVISIO.

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

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

ORDER OF THE DIVISION

BY THE DIVISION:

CASE NO. 7279
BEFORE EXAMINER STAVELIS
Order No. R-6719
OIL CONSERVATION DIVISION
EXHIBIT NO. 2
CASE NO. _____
Submitted by _____
Hearing Date _____

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:

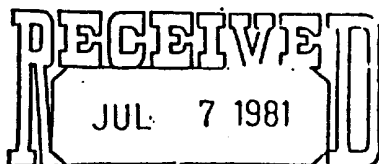
(1) That due public notice having been given as required
by law, the Division has jurisdiction of this cause and the
subject matter thereof.

✓ (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.



BCO, 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.

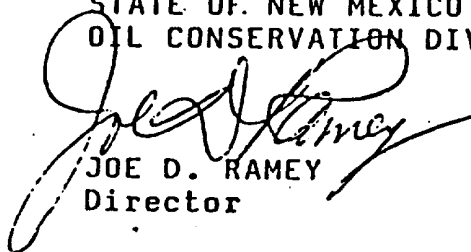
(3) That the operator of the subject wells shall immediately notify the Division's Aztec district office any time the wells have been shut-in for 7 consecutive days and shall concurrently present, to the Division, a plan for remedial action.

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

Case No. 1279
Order No. R-67

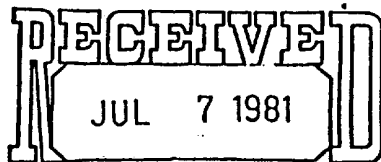
DONE at Santa Fe, New Mexico, on the day and year herein-
above designated.

STATE OF NEW MEXICO
OIL CONSERVATION DIVISION


JOE D. RAMEY
Director

S E A L

fd/



B C O, INC.

EXHIBIT C

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 marginal production only.

(5) 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.

(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 to each of the commingled zones in any well in the subject area, 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 (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.

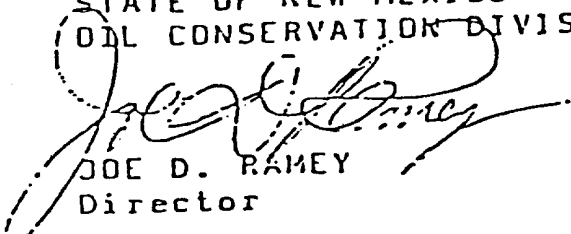
(2) That the applicant shall consult with the Supervisor of the Aztec district office of the Division and determine an allocation formula for the allocation of production to each zone in any well downhole commingled under terms of this order.

(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 hereinabove designated.

STATE OF NEW MEXICO
OIL CONSERVATION DIVISION


JOE D. RAMEY
Director

S E A L
rd/

OPERATOR:

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

OFFSET OPERATORS:

HIKON 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

1151249
50'

SF 070272
GSL

Area of Application

Offset Areas

Operator Name

TOWNSHIP 23 NORTH, RANGE 7 WEST, 0272
OG

8

ALEXANDER
ENERGY
CORPORATION

SF 070272
GSL

SF 070272-A
LSE OG

SF 070272
LSE OG

UNION TEXAS

BCO

HIXON DEVELOPMENT

17

16

AREA OF APPLICATION

BCO

HIXON DEVELOPMENT

UNLEASED
USA

20

BCO

21

NM 16536
GSL

NM 0213105

NM 0359177

BCO

12442-22

NM

02

EXHIBIT F

[illegible]

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PAGE 83

WELL	S	T	A	JAN	FEB	MAR	APRIL	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	1986	PROD	HP	ACCUM
UNDES GRANERO (SJI) 5M TO 8M CR 5M TO 6M																			
HARRY L. BIGGERS																			
41224N 8M OIL RECOMPLETED TO UNDES MANCOS (SJI) 6M TO 7M 4671																			
UNDES GRANERO (SANDI) 5M TO 6M CR 5M TO 6M																			
DEWEY A. GLOVER, JR.																			
SICARILLA 172933M 3M OIL PLUGGING APPROVED 1970 12864																			
UNDES DAKOTA (RAI) 7M TO 8M DK 7M TO 8M																			
ANOCO PRODUCTION CO.																			
ANOCO FEDERAL USO CANYON 122424N 2M OIL LAST PROD. DATE 04/85 U 1280																			
UNDES DAKOTA (SANDI) 7M TO 8M DK 7M TO 8M																			
NORTH AMERICAN EXPLORATION CORP																			
CROSSWIRE 1431234 2M OIL PLUGGING APPROVED 1977 2817																			
UNDES PARADOX (SJI) 7M TO 8M PP 7M TO 8M																			
SUN OIL COMPANY																			
NAVJ 1881E MESA 132728N17W OIL PLUGGING APPROVED 1972 22302																			
132728N17W OIL PLUGGING APPROVED 1972 47533																			
COMPANY TOTAL OIL 69835																			
UNDES. OJJ ALAMO (SJI) DA 0M TO 5M																			
LEE W. CRANE																			
NORTH 143-30N11W OIL 431 265 556 595 481 405 348 422 404 414 408 255 4986 F 4264																			

COPY

WELL S. T. A.	JAN	FEB	MAR	APRIL	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC 1986	PROD	HP	ACCU
4D 223N 7m	309	303	308	315	298	263	282	272	313	308	263	294	3314P		25913
LEASE TOTAL	309	303	308	315	298	263	282	272	313	308	263	294	3314P		25913
COMPANY TOTAL	309	303	308	315	298	263	282	272	313	308	263	294	3314P		25913
BYRON OIL INDUSTRIES															
1J 423N 7m	1602	1817	1578	934	1177	483	553	781	667	654	840	693	1104F		29669
LEASE TOTAL	1602	1817	1578	934	1177	483	553	781	667	654	840	693	1104F		29669
COMPANY TOTAL	1602	1817	1578	934	1177	483	553	781	667	654	840	693	1104F		29669
HANSJON FEDERAL															
1C 323N 7m	2422	2172	2303	1437	1728	1229	1329	1172	1003	1133	1234	1039	1780F		67639
LEASE TOTAL	2422	2172	2303	1437	1728	1229	1329	1172	1003	1133	1234	1039	1780F		67639
COMPANY TOTAL	2422	2172	2303	1437	1728	1229	1329	1172	1003	1133	1234	1039	1780F		67639
LYNACOR															
15 423N 7m	3173	3194	2134	3099	2146	3139	3140	2151	1133	2172	1933	2118	3171F		9845
LEASE TOTAL	3173	3194	2134	3099	2146	3139	3140	2151	1133	2172	1933	2118	3171F		9845
COMPANY TOTAL	3173	3194	2134	3099	2146	3139	3140	2151	1133	2172	1933	2118	3171F		9845
JACK & COLE															
31 723N 6m	1130	1115	1140	89	96	89	57	77	66	84	89	60	1097F		1536
LEASE TOTAL	1130	1115	1140	89	96	89	57	77	66	84	89	60	1097F		1536
COMPANY TOTAL	1130	1115	1140	89	96	89	57	77	66	84	89	60	1097F		1536
DISTRICT RESOURCE CORP.															
431 823N 7m	1327	1327	1327	1134	1121	1122	1105	1111	112	139	167	21	1537P		11258
LEASE TOTAL	1327	1327	1327	1134	1121	1122	1105	1111	112	139	167	21	1537P		11258
COMPANY TOTAL	1327	1327	1327	1134	1121	1122	1105	1111	112	139	167	21	1537P		11258
FEDERAL															
22 623N 7m	24	32	36	28	30	18	38	184	180	214	194	174	236P		3712
LEASE TOTAL	24	32	36	28	30	18	38	184	180	214	194	174	236P		3712
COMPANY TOTAL	24	32	36	28	30	18	38	184	180	214	194	174	236P		3712
MAT FAME YAZER															
1C 923N 7m	1257	1105	1105	1114	1100	1047	927	1236	1084	1138	930	739	1285P		8083
LEASE TOTAL	1257	1105	1105	1114	1100	1047	927	1236	1084	1138	930	739	1285P		8083
COMPANY TOTAL	1257	1105	1105	1114	1100	1047	927	1236	1084	1138	930	739	1285P		8083
JUGAN PRODUCTION CORPORATION															
1A 523N 7m	178	160	183	174	158	54	44	55	2		21	9	1028F		17169
LEASE TOTAL	178	160	183	174	158	54	44	55	2		21	9	1028F		17169
COMPANY TOTAL	178	160	183	174	158	54	44	55	2		21	9	1028F		17169
WALLYNALDE															
24 523N 7m	1339	1679	1879	1376	1455	164	163	1002	1335	1573	1253	1221	1718P		4921
LEASE TOTAL	1339	1679	1879	1376	1455	164	163	1002	1335	1573	1253	1221	1718P		4921
COMPANY TOTAL	1339	1679	1879	1376	1455	164	163	1002	1335	1573	1253	1221	1718P		4921
BUMBLE															
25 723N 8m	187	172	181	169	175	179	173	126	128	210	3	184	1787P		11527
LEASE TOTAL	187	172	181	169	175	179	173	126	128	210	3	184	1787P		11527
COMPANY TOTAL	187	172	181	169	175	179	173	126	128	210	3	184	1787P		11527
KEWAY															
18 3023N 7m	140	139	139	139	139	139	139	139	139	139	139	139	139P		709
LEASE TOTAL	140	139	139	139	139	139	139	139	139	139	139	139	139P		709
COMPANY TOTAL	140	139	139	139	139	139	139	139	139	139	139	139	139P		709
KENSLE															
21 623N 7m	145	139	139	139	139	139	139	139	139	139	139	139	139P		7103
LEASE TOTAL	145	139	139	139	139	139	139	139	139	139	139	139	139P		7103
COMPANY TOTAL	145	139	139	139	139	139	139	139	139	139	139	139	139P		7103
LAVA FALLS															
12 723N 8m	282	223	233	235	223	235	235	235	235	235	235	235	235P		16384
LEASE TOTAL	282	223	233	235	223	235	235	235	235	235	235	235	235P		16384
COMPANY TOTAL	282	223	233	235	223	235	235	235	235	235	235	235	235P		16384
PHANTOM RANCH															
12 2124 8m	178	139	139	139	139	139	139	139	139	139	139	139	139P		3612
LEASE TOTAL	178	139	139	139	139	139	139	139	139	139	139	139	139P		3612
COMPANY TOTAL	178	139	139	139	139	139	139	139	139	139	139	139	139P		3612
SAPP C															
14 523N 7m	23	23	23	23	23	23	23	23	23	23	23	23	23P		19962
LEASE TOTAL	23	23	23	23	23	23	23	23	23	23	23	23	23P		19962
COMPANY TOTAL	23	23	23	23	23	23	23	23	23	23	23	23	23P		19962
STATE															
13 224N 7m	117	104	122	123	117	111	92	47	75	1022	874	93	1145P		65533
LEASE TOTAL	117	104	122	123	117	111	92	47	75	1022	874	93	1145P		65533
COMPANY TOTAL	117	104	122	123	117	111	92	47	75	1022	874	93	1145P		65533
FLAT 223N 7m	30	20	35	30	31	27	35	9	31	28	24	27	333P		22059
LEASE TOTAL	30	20	35	30	31	27	35	9	31	28	24	27	333P		22059
COMPANY TOTAL	30	20	35	30	31	27	35	9	31	28	24	27	333P		22059
34 3124N 7m	1106	926	1099	1088	923	930	862	963	1049	1057	874	93	1145P		5904
LEASE TOTAL	1106	926	1099	1088	923	930	862	963	1049	1057	874	93	1145P		5904
COMPANY TOTAL	1106	926	1099	1088	923	930	862	963	1049	1057	874	93	1145P		5904
43 3124N 7m	1106	926	1099	1088	923	930	862	963	1049	1057	874	93	1145P		15224
LEASE TOTAL	1106	926	1099	1088	923	930	862	963	1049	1057	874	93	1145P		15224
COMPANY TOTAL	1106	926	1099	1088	923	930	862	963	1049	1057	874	93	1145P		15224
51 3124N 7m	1106	926	1099	1088	923	930	862	963	1049	1057	874	93	1145P		7236
LEASE TOTAL	1106	926	1099	1088	923	930	862	963	1049	1057	874	93	1145P		7236
COMPANY TOTAL	1106	926	1099	1088	923	930	862	963	1049	1057	874	93	1145P		7236
63 3124N 7m	1106	926	1099	1088	923	930	862	963	1049	1057	874	93	1145P		7470
LEASE TOTAL	1106	926	1099	1088	923	930	862	963	1049	1057	874	93	1145P		7470
COMPANY TOTAL	1106	926	1099	1088	923	930	862	963	1049	1057	874	93	1145P		7470

COPY

EXHIBIT G

WELL COMPLETION OR RECOMPLETION REPORT AND LOG *

1. TYPE OF WELL: OIL WELL ☒ GAS WELL ☐ DRY ☐ Other _____		5. LEASE DESIGNATION AND SERIAL NO. SF-078272	
2. TYPE OF COMPLETION: NEW WELL ☒ WORK OVER ☐ REKEY ☐ PLUG BACK ☐ DIFF. REKEY ☐ Other _____		6. IF INDIAN, ALLOTTEE OR TRIBE NAME _____	
3. NAME OF OPERATOR BCO, INC.		7. UNIT AGREEMENT NAME _____	
4. ADDRESS OF OPERATOR 135 Grant Avenue, Santa Fe, New Mexico 87501		8. FARM OR LEASE NAME Dunn	
9. 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		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. PERMIT NO. _____ DATE ISSUED _____		12. COUNTY OR PARISH Rio Arriba	
13. DATE SPUNDED June 9, 1985		13. STATE New Mexico	
14. DATE T.D. REACHED June 17, 1985		14. COUNTY OR PARISH Rio Arriba	
15. DATE COMPL. (Ready to prod.) September 10, 1985		15. STATE New Mexico	
16. ELEVATIONS (OF, RMR, RT, GR, ETC.)* 7020 GR		16. COUNTY OR PARISH Rio Arriba	
17. TOTAL DEPTH, MD & TVD 6477		17. STATE New Mexico	
18. PLUG, BACK T.D., MD & TVD 6475		18. COUNTY OR PARISH Rio Arriba	
19. IF MULTIPLE COMPL., HOW MANY? Two		19. STATE New Mexico	
20. INTERVALS DRILLED BY _____		20. COUNTY OR PARISH Rio Arriba	
21. ROTARY TOOLS XX		21. STATE New Mexico	
22. CABLE TOOLS _____		22. COUNTY OR PARISH Rio Arriba	
23. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)* Gallup - 5394-6286		23. STATE New Mexico	
24. TYPE ELECTRIC AND OTHER LOGS RUN Cement Bond Log Computer Laser, Induction Log, Compensated Density Dual Spaced Neutron Log		24. COUNTY OR PARISH Rio Arriba	
25. CASING RECORD (Report all strings set in well)		25. STATE New Mexico	
26. LINER RECORD		26. COUNTY OR PARISH Rio Arriba	
27. TUBING RECORD		27. STATE New Mexico	
28. 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		28. COUNTY OR PARISH Rio Arriba	
29. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.		29. STATE New Mexico	
30. PRODUCTION		30. COUNTY OR PARISH Rio Arriba	
31. DISPOSITION OF GAS (Hold, used for fuel, vented, etc.) Vented		31. STATE New Mexico	
32. LIST OF ATTACHMENTS Cementing Record		32. COUNTY OR PARISH Rio Arriba	
33. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records		33. STATE New Mexico	
SIGNED Elizabeth B. Keesha		34. COUNTY OR PARISH Rio Arriba	
TITLE Comptroller		34. STATE New Mexico	
DATE 10/4/85		35. COUNTY OR PARISH Rio Arriba	

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

OIL CONSERVATION DIVISION

P. O. BOX 2088

SANTA FE, NEW MEXICO 87501

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

NO. OF COPIES RECEIVED	
DISTRIBUTION	
SANTA FE	
FILE	
U.S.O.S.	
LAND OFFICE	
OPERATOR	

5a. Indicate Type of Lease
State ☒ ☐
5. State Oil & Gas Lease No.
LG 3748

10. TYPE OF WELL		OIL WELL ☒ GAS WELL ☐ DRY ☐ OTHER ☐		7. Unit Agreement Name
b. TYPE OF COMPLETION		NEW WELL ☐ WORK OVER ☒ DEEPEN ☐ PLUG BACK ☒ DIFF. PRESVR. ☐ OTHER ☐		8. Form or Lease Name
2. Name of Operator		BCO, Inc.		State H.
3. Address of Operator		135 Grant Avenue, Santa Fe, New Mexico 87501		9. Well No.
4. Location of Well		UNIT LETTER <u>D</u> LOCATED <u>970</u> FEET FROM THE <u>N</u> LINE AND <u>910</u> FEET FROM THE <u>W</u> LINE OF SEC. <u>2</u> TWP. <u>23N</u> REG. <u>7W</u> NEPM		10. Field and Pool, or Wildcat
15. Date Spudded		8-31-80		Lybrook Gallup & Undesignated Grants
16. Date T.D. Reached		9-11-80		12. County
17. Date Compl. (Ready to Prod.)		8-19-81 Gallup & Graneros		Rio Arriba
18. Elevations (DF, RKB, RT, GR, etc.)		6904 GR		19. Elev. Casinghead
20. Total Depth		6505		21. Plug Back T.D.
21. Plug Back T.D.		6426		22. If Multiple Compl., How Many
22. If Multiple Compl., How Many		two		23. Intervals Drilled By
23. Intervals Drilled By		XX		24. Producing Interval(s), of this completion - Top, Bottom, Name
24. Producing Interval(s), of this completion - Top, Bottom, Name		5318-5557 Gallup		25. Was Directional Made
25. Was Directional Made		yes		26. Type Electric and Other Logs Run
26. Type Electric and Other Logs Run		Induction Electrical, Compensated Density, Compensated Neutron, Gamma Ray Bond Log		27. Was Well Cored
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	294	12 1/4	200 sacks	
4 1/2	11.6	6503	7 7/8	1400 sacks	

29. LINER RECORD					30. TUBING RECORD		
SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN	SIZE	DEPTH SET	PACKER SET
					2 3/8	6277	

31. Perforation Record (Interval, size and number)		32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.	
One 3 1/8" select fire shot at 5557, 5546, 5512, 5506, 5488, 5480, 5454, 5450, 5446, 5442, 5406, 5340, 5326, 5322, 5318		DEPT. INTERVAL	
6272-6277 3 1/8" 5 shots		6272-6277	
		5318-5557	
		Previously reported	
		216,970 gallons water,	
		315,000 #. 10-20 sand, 1,891,	
		standard cubic ft. of nitro	

33. PRODUCTION		34. Well Status (Prod. or Shut-in)	
Date First Production		SHUT IN	
8-19-81 Graneros			
8-19-81 Gallup			
Production Method (Flowing, gas lift, pumping - Size and type pump)		Well Status (Prod. or Shut-in)	
Well will be tested at a later date after NGPA filing made		SHUT IN	
Date of Test	Hours Tested	Choke Size	Prod'n. For Test Period
Flow Tubing Press.	Casing Pressure	Calculated 24-Hour Rate	Oil - Bbl.
4. Disposition of Gas (Sold, used for fuel, vented, etc.)		Test Witnessed By	
Sold thru BCO, Inc. North Lybrook Gathering Line			
5. List of Attachments			

6. 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. Bush

TITLE President

DATE 8-19-81

COPY

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

OIL CONSERVATION DIVISION

P. O. BOX 2088

SANTA FE, NEW MEXICO 87501

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

Form C-103
Revised 10-1-78

NO. OF COPIES RECEIVED	
DISTRIBUTION	
SANTA FE	
FILE	
U.S.O.S.	
LAND OFFICE	
OPERATOR	

5a. Indicate Type of Lease	
State ☒	Fee
5. State Oil & Gas Lease No.	
LG 3748	

1a. TYPE OF WELL	
OIL WELL ☒	GAS WELL ☐ DRY ☐ OTHER ☐
b. TYPE OF COMPLETION	
NEW WELL ☐	WORK OVER ☒
DEEPEN ☐	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	

7. Unit Agreement Name	
8. Farm or Lease Name	
State H	
9. Well No.	
3	
10. Field and Pool, or Wildcat	
Lybrook Gallup & Undesignated Granero	

UNIT LETTER M LOCATED 990 FEET FROM THE S LINE AND 990 FEET FROM THE W LINE OF SEC. 2 TWP. 23N RGE. 7W	
--	--

12. County	
Rio Arriba	

13. Date Spudded	16. Date T.D. Reached	17. Date Compl. (Ready to Prod.)	18. Elevations (DF, RKB, RT, CR, etc.)	19. Elev. Casinghead
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
6545	6453	LWO	XX	Cable Tools

25. Was Directional S. Made	
Yes	
Filed 10-9-80	

24. Producing Interval(s), of this completion - Top, Bottom, Name	
5364-5602 Gallup	
6326-6331 Dakota Co-mingled under Order # R-6719	
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 PULL
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				30. TUBING RECORD			
SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN	SIZE	DEPTH SET	PACKER SET
					2 3/8	6350	

31. Perforation Record (Interval, size and number)		32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.	
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		DEPT. INTERVAL	
6326-6331 3 1/8" 5 shots		AMOUNT AND KIND MATERIAL USED	
		6326-6331 Previously reported	
		5364-5602 94,000 gals. H ₂ O; 200,000 #	
		10-20 sand, 1,200,000 standa	
		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.)		Test Witnessed By	
Sold thru BCO, Inc. North Lybrook Gathering Line		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 <u>Harry R. Beal</u>	TITLE <u>President</u> DATE <u>7-21-81</u>

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN DUPLICATE
(other instructions on reverse side)

Form approved
Budget Bureau No. 42-73

WELL COMPLETION OR RECOMPLETION REPORT AND LOG *

5. LEASE DESIGNATION AND SERIAL
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. ON BLOCK AND SURV. OR AREA
10-23N-7W

12. COUNTY OR PARISH
Rio Arriba

13. STATE
New Mexico

14. ELEVATIONS (DP, RES. RT, CR, ETC.)
7265 GR

15. ELEV. CASINGHEAD
7267

16. ROTARY TOOLS
0-6730

17. CABLE TOOLS

18. WAS DIRECTIONAL SURVEY MADE
Yes

19. WAS WELL CORED
No

1. TYPE OF WELL: OIL WELL ☒ GAS WELL ☒ DRY ☐ Other _____

2. TYPE OF COMPLETION: NEW WELL ☒ WORK OVER ☐ DEEP-EN ☒ PLUG BACK ☐ DIFF. RESVR. ☐ Other _____

3. NAME OF OPERATOR

BCO, Inc.

4. ADDRESS OF OPERATOR

P. O. Box 669 Santa Fe, New Mexico 87501

5. 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

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. TOTAL DEPTH, MD & TVD 6743 19. PLUG BACK T.D. MD & TVD Casing 6730 Open hole 6741 20. IF MULTIPLE COMPL. HOW MANY? Co-mingle 3 zones 21. INTERVALS DRILLED BY 22. ROTARY TOOLS 0-6730 23. 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. TYPE ELECTRIC AND OTHER LOGS RUN

Borehole compensated; Sonic-Gamma; F; Dual Induction; CBL; Dual Spacing TDT

26. 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	

27. LINER RECORD					28. TUBING RECORD		
SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
					2-3/8	6712	

29. PERFORATION RECORD (Interval, size and number)		30. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.	
INTERVAL (MD)	SIZE	INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
Upper Dakota 6724-6729 W/4SPF		6724-6735	500 15% 23M H ₂ O 15M 40-60
Lower Graneros 6642-6647 W/2SPF		6642-6647	250 15% 27M H ₂ O 25M 20-40
Upper Graneros 6551-56; 6586-88 W/2SPF		6551-6588	250 15% 32M H ₂ O 10M 20-40 20M 10-20
Greenhorn 6485-87; 6494-99 W/2SPF		6485-6499	250 15% 2000 28% 16M H ₂ O 15M 20-40
			5M 10-20
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		5759-5931	500 15% 22M H ₂ O 22M 10-20
Mayre 5715-22 W/2SPF 5723-25 W/4SPF		5715-5725	500 15% 20M H ₂ O 21M 10-20
Skelly 5598-5612 W/2SPF		5598-5612	500 15% 22M H ₂ O 21M 10-20

31. PRODUCTION							
DATE FIRST PRODUCTION				PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump)			
Gallup 9/28/76				Gas Lift			
Greenhorn-Dakota 5/8/76				Gas Lift			
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	

32. 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

33. TEST WITNESSED BY H. R. Bigbee

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

35. 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