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| DATE IN | 6/9/98 | SUSPENSE 6/29/98 ENGINEER DC LOGGED BY M TYPE DAC |
| | 1 1 | ABOVE THIS LINE FOR DIVISION USE ONLY |
| |] | NEW MEXICO OIL CONSERVATION DIVISION - Engineering Bureau - 2040 South Pacheco, Santa Fe, NM 87505 |
| | A | DMINISTRATIVE APPLICATION COVERSHEET |
| THI | S COVERSHEET IS I | MANDATORY FOR ALL ADMINISTRATIVE APPLICATION FOR EXCEPTIONS TO DIVISION RULES AND REGULATIONS WHICH REQUIRE PROCESSING AT THE DIVISION LEVEL IN SANTA FE |
| Applie | PC-Poo[۲ [۱ | ns: [NSP-Non-Standard Proration Unit] [NSL-Non-Standard Location] [DD-Directional Drilling] [SD-Simultaneous Dedication] hole Commingling] [CTB-Lease Commingling] [PLC-Pool/Lease Commingling] I Commingling] [OLS - Off-Lease Storage] [OLM-Off-Lease Measurement] WFX-Waterflood Expansion] [PMX-Pressure Maintenance Expansion] [SWD-Salt Water Disposal] [IPI-Injection Pressure Increase] fied Enhanced Oil Recovery Certification] [PPR-Positive Production Response] |
| [1] | - | PPLICATION - Check Those Which Apply for [A] Location - Spacing Unit - Directional Drilling NSL NSP DD SD JUN - 9 1998 |
| | Check [B] | Cone Only for [B] or [C] Oil CONSERVATION DIVISION Commingling - Storage - Measurement Oil CONSERVATION DIVISION OHC CTB PLC PC OLS OLM |
| | [C] | Injection - Disposal - Pressure Increase - Enhanced Oil Recovery WFX PMX SWD IPI EOR PPR |
| [2] | NOTIFICAT [A] [B] | TION REQUIRED TO: - Check Those Which Apply, or Does Not Apply Working, Royalty or Overriding Royalty Interest Owners Offset Operators, Leaseholders or Surface Owner |
| | [C] | Application is One Which Requires Published Legal Notice |
| | [D] [E] [F] | Notification and/or Concurrent Approval by BLM or SLO U.S. Bureau of Land Management - Commissioner of Public Lands, State Land Office For all of the above, Proof of Notification or Publication is Attached, and/or, Waivers are Attached |
| | | |

[3] INFORMATION / DATA SUBMITTED IS COMPLETE - Certification

I hereby certify that I, or personnel under my supervision, have read and complied with all applicable Rules and Regulations of the Oil Conservation Division. Further, I assert that the attached application for administrative approval is accurate and complete to the best of my knowledge and where applicable, verify that all interest (WI, RI, ORRI) is common. <u>I understand that any omission of data</u> (including API numbers, pool codes, etc.), pertinent information and any required notification is cause to have the application package returned with no action taken.

Note: Statement must be completed by an individual with managerial and/or supervisory capacity.

| | Jonan S | haa hued ta alm | 6-8-98 |
|--------------------|-----------|-----------------|--------|
| Print or Type Name | Signature | Title | Date |

DISTRICT I

P.O. Box 1980, Hobbs, NM 88241-1980 **DISTRICT II** 811 South First St., Artesia, NM 88210-2835 **DISTRICT III** 1000 Rio Brazos Rd, Aztec, NM 87410-1693

State of New Mexico Energy, Minerals and Natural Resources Department **OIL CONSERVATION DIVISION**

2040 S. Pacheco Santa Fe, New Mexico 87505-6429

APPLICATION FOR DOWNHOLE COMMINGLING

Form C-107-A New 3-12-96 APPROVAL PROCESS : X Administrative **EXISTING WELLBORE**

No No

X YES NO

| BURLINGTON RESOURCES OIL & GAS COMPANY | PO Bo | x 4289, Farmington, NM 87499 | |
|--|--------------------------------|------------------------------|-------------------|
| Operator | the state of the second second | Address | |
| JICARILLA 150 | 7M | O, Sec. 11, T26N, R05W | Rio Arriba |
| Lease | Well No. | Unit Ltr Sec - Twp - Rge | County |

OGRID NO. 14538

Property Code <u>16344</u> API NO. <u>30-039-22058</u> Federal X , State _____, (and/or) Fee _

Spacing Unit Lease Types: (check 1 or more)

| The following facts are submitted in support of downhole commingling: | Upper Zone | Intermediate Zone | Lower Zone |
|--|---|---|---|
| 1. Pool Name and Pool Code | Mesa Verde - 73219 | naan aha ka | Dakota - 71599 |
| 2. Top and Bottom of Pay Section (Perforations) | 5809' - 6171' | | 8034' - 8186' |
| 3. Type of production (Oil or Gas) | Gas | | Gas |
| 4. Method of Production (Flowing or Artificial Lift) | Flowing | | Flowing |
| 5. Bottomhole Pressure Oil Zones - Artificial Lift: Estimated Current | (Current) a. 495.1 Psia @ 5990' | а. | a. 633.7 Psia @ 8110' |
| Gas & Oil - Flowing: Measured Current All Gas Zones: Estimated or Measured Original | (Original) b. 914.9 Psia @ 5990' | b. | b. 2664.7 Psia @ 8110' |
| 6. Oil Gravity ([°] API) or Gas BTU Content | | | |
| 7. Producing or Shut-In? | Producing | | Producing |
| Production Marginal? (yes or no) | No | | Yes |
| * If Shut-In and oil/gas/water rates of last production Note: For new zones with no production history, applicant shall be required to attach production estimates and supporting data | Date: Rates: | Date: Rates: | Date: Rates: |
| * If Producing, give data and oil/gas/water water of recent test (within 60 days) | Date: 05/07/98 Rates: 246 MCFD, 0.9 BO | Date: Rates: | Date: 05/07/98 Rates: 98 MCFD, 0 BO |
| 8. Fixed Percentage Allocation Formula -% for each zone (total of %'s to equal 100%) | Oil: Gas: will be supplied upon completion | Oil: Gas: | Oil: Gas: will be supplied upon completion |

If allocation formula is based upon something other than current or past production, or is based upon some other method, submit attachments with supporting data and/or explaining method and providing rate projections or other required data. 9.

| 10. Are all working, overriding, and royalty interests identical in all commingled zones? | X Yes | |
|--|--------------|---|
| If not, have all working, overriding, and royalty interests been notified by certified mail? | Yes X Yes | |
| Have all offset operators been given written notice of the proposed downhole commingling? | x Yes | _ |

Will cross-flow occur? <u>X</u>Yes <u>No</u> If yes, are fluids compatible, will the formations not be damaged, will any cross-flowed production be recovered, and will the allocation formula be reliable. <u>X</u>Yes <u>No</u> (If No, attach explanation) 11. Will cross-flow occur?

12. Are all produced fluids from all commingled zones compatible with each other? X Yes No

13. Will the value of production be decreased by commingling? ___ Yes _X_ No (If Yes, attach explanation)

14. If this well is on, or communitized with, state or federal lands, either the Commissioner of Public Lands or the United States Bureau of Land Management has been notified in writing of this application. __X_Yes ___No

15. NMOCD Reference Cases for Rule 303(D) Exceptions: ORDER NO(S).

11

16. ATTACHMENTS:
* C-102 for each zone to be commingled showing its spacing unit and acreage dedication.
* Production curve for each zone for at least one year. (If not available, attach explanation.)
* For zones with no production history, estimated production rates and supporting data.
* Data to support allocation method or formula.
* Notification list of all offset operators.
* Notification list of working, overriding, and royalty interests for uncommon interest cases.
* Any additional statements, data, or documents required to support commingling.

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

| SIGNATURE | TZ | Mult |
|-----------|----|------|
| | | // |

TITLE Production Engineer DATE 06-08-98

TYPE OR PRINT NAME Kevin L. Midkiff

TELEPHONE NO. (505) 326-9700_

NEMEXICO OIL CONSERVATION COMMISSION WELL JCATION AND ACREAGE DEDICATION LAT

• •

Form C-102 Supersedes C-12. Effective 1-1-55

| Operation Lets (0) Mail No. SUPERCY ENERGY CORPORATION JIGATLL 'WYA 7.4 // Unit Letter Section Township Aware County RIO ARRIEA Or all 12 S NORTH 5 WEST RIO ARRIEA Township Aware Actual Freescope Leastion of With Decision Producting Formation BLANCO Decisional Activates: 7206 DAKOTA BLANCO Decisional Activates: BL/J 200 Acres 7206 DAKOTA BLANCO Decisional Activates: BL/J 200 Acres 10 suffice the acreage dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royality). If more than one lease of different ownership is dedicated to the well, have the interests of all owners been consolidated by communitization, force-pooling, etc? 19 Yes No If answer is "no?' list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if necessary.) No allowable will be assigned to the well until all interests have been consolidated. (Use reverse side of this form if necessary.) If aready construction, forced pooling, or otherwise) or until a non-standard unit, eliminating such interests, has been approved by the Commission. If MESAMEREE | | | All distances must be | from the outer | boundaries of | the Section | n | | • | |
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Jicarilla 150 7M BHP Cullender and Smith Method Version 1.0 3/13/94

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| Mesa Verde | Dakota |
|--|--|
| <u>MV - Current</u> | <u>DK-Current</u> |
| GAS GRAVITY0.574COND. OR MISC. (C/M)M%N20.19%CO20.8%H2S0DIAMETER (IN)5DEPTH (FT)5990SURFACE TEMPERATURE (DEG F)60BOTTOMHOLE TEMPERATURE (DEG F)135FLOWRATE (MCFPD)0SURFACE PRESSURE (PSIA)438BOTTOMHOLE PRESSURE (PSIA)495.1 | GAS GRAVITY0.664COND. OR MISC. (C/M)M%N20.33%CO20.91%H2S0DIAMETER (IN)55DEPTH (FT)8060SURFACE TEMPERATURE (DEG F)60BOTTOMHOLE TEMPERATURE (DEG F)161FLOWRATE (MCFPD)0SURFACE PRESSURE (PSIA)523BOTTOMHOLE PRESSURE (PSIA)633.7 |
| <u>MV - Original</u> | <u>DK-Original</u> |
| GAS GRAVITY0.574COND. OR MISC. (C/M)M%N20.19%CO20.8%H2S0DIAMETER (IN)5DEPTH (FT)5990SURFACE TEMPERATURE (DEG F)60BOTTOMHOLE TEMPERATURE (DEG F)135FLOWRATE (MCFPD)0SURFACE PRESSURE (PSIA)805BOTTOMHOLE PRESSURE (PSIA)914.9 | GAS GRAVITY0.664COND. OR MISC. (C/M)M%N2.0.33%CO20.91%H2S0DIAMETER (IN)5DEPTH (FT)8060SURFACE TEMPERATURE (DEG F)60BOTTOMHOLE TEMPERATURE (DEG F)161FLOWRATE (MCFPD)0SURFACE PRESSURE (PSIA)2126BOTTOMHOLE PRESSURE (PSIA)2664.7 |

| 05/02/84 04/23/86 11/20/89 | 411910 553658 723789 | 485.0 515.0 | | | | |
|---|-----------------------------|-------------------------------|--------|------|-------|--|
| 11/17/80 09/25/81 05/02/82 | - | 693.0 558.0 | | | | |
| <u>DATE</u> <u>CU</u> 07/14/80 | <u>M_GAS M</u> Mcf 0 | SIW <u>HP</u> Psi 793.0 | | | | |
| Page No.: Print Time: Property ID: Property Name: Table Name: | Fri May 3160 JICARILL | A 150 | 7M 3 | 5935 | VERDE | |

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| | y ID: 1037 | | | | | |
| | Name: JICARIL | | | | | |
| Table N | Name: K:\ARIE | S\RR99PD | P\TEST.DBF | DAKOT | -A. | |
| | | | | | | |
| <u>DATE</u> _ | <u>CUM_GAS</u> | | | | | |
| | Mcf | Psi | | | | |
| 07/14/00 | 0 | 0114 0 | | | ` | |
| 07/14/80 | 0 | 2114.0 | | | | |
| 09/25/81 | | 1148.0 | | | | |
| 05/02/82 | | 946.0 | | | | |
| 07/25/83 | 382504 | 889.0 | | | | |
| 05/29/85 | 502795 | 934.0 | | | | |
| 01/13/88 | 646665 | 832.0 | | | | |
| 10/03/90 | 747697 | 731.0 | | | | |
| 05/29/91 | 764227 | 466.0 | | | | |
| 04/29/92 | 794514 | 786.0 | | | | |
| 04/01/98 | 953407 | 511 | Based on | Pressure vs. | . cum. Gas | Curve |

| Package Preparation Volume Data | | | | | | | | | | | |
|------------------------------------|------------------------|------------------------|--------------|----------------|-----------------|--------------------------|----------------------|-------------|--------------------------|--|--|
| DPNo: 359 | 36 JI | CARILLA 150 | | 71 | M | | Fon | n: DK | | | |
| Supt: 60 Pipeline: | KEN RAYBO WFS | DN F Plunger: | F: 339 No | WARD ARNO | LD ual: Yes | MS: | 303 RAY SA Compre | NDOVAL | No | | |
| <u>0</u> \ | wnership (No | <u>Trust)</u> | | <u>Pr</u> | <u>ior Year</u> | | <u>Cur</u> | rent Year | | | |
| GWI: | <u>Gas</u> 62.5000% | <u>Oil</u> 62.5000% | | MCF/M | BOPM | <u>Days</u> <u>On</u> | <u>MCF/M</u> | <u>BOPM</u> | <u>Days</u> <u>On</u> | | |
| GNI: | 54.6875% | 54.6875% | Jan Feb | 3,202 2,590 | 0.0 0.0 | 31 28 | 1,142 983 | 0.0 0.0 | 31 28 | | |
| <u>Volumes</u> (Days On) | MCFI | D BOPD | Mar Apr | 2,389 2,138 | 0.0 0.0 | 31 30 | 0 0 | 0.0 0.0 | 31 0 | | |
| 7 Day Avg 30 Day Avg | 213 98 | 8 0.0 0.0 | May Jun | 1,205 2.943 | 103.0 0.0 | 16 30 | 0 | 0.0 0.0 | 0 0 | | |
| 60 Day Avg | 45 | 0.0 | Jul | 1,825 | 0.0 | 27.1 | 0 | 0.0 | 0 | | |
| 3 Mo Avg 6 Mo Avg | 37 41 | 0.0 0.8 | Aug Sept | 1,705 1,659 | 0.0 90.0 | 31 30 | 0 0 | 0.0 0.0 | 0 0 | | |
| 12 MoAvg | 57 | 0.7 | Oct Nov | 1,292 1,121 | 47.0 0.0 | 31 30 | 0 0 | 0.0 0.0 | 0 0 | | |
| <u>Volumes</u> (Days in Mo | onth) MCFI | D BOPD | Dec | 1,226 | 0.0 | 31 | 0 | 0.0 | 0 | | |
| 30 Day Avg | | 0.0 | Total | 23,295 | 240.0 | | 2,125 | 0.0 | | | |
| 60 Day Avg 3 Mo Avg | 43 37 | 0.0 0.0 | | | | | Pri | nt Form | | | |
| 6 Mo Avg 12 Mo Avg | 41 54 | 0.8 0.7 | | | | | Exit Vo | lumes C |)ata | | |
| 5/7/98 | | | : | | | | | | | | |

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| | | F | | ge Prepa olume Da | |) | | | |
|-----------------------|------------------------|------------------------|---------------|----------------------|----------------|--------------------------|----------------------|-------------|--------------------------|
| DPNo: 359: | 35 JI | CARILLA 150 | | , | M | | For | m: MV | |
| Supt: 60 Pipeline: | KEN RAYBO WFS | DN F Plunger: | F: 339 Yes | WARD ARNO | LD ual: Yes | MS: | 303 RAY SA Compre | NDOVAL | No |
| <u>Ov</u> | wnership (No | <u>Trust)</u> | | <u>Pr</u> | ior Year | | <u>Cur</u> | rent Year | |
| GWI: | <u>Gas</u> 62.5000% | <u>Oil</u> 62.5000% | | MCF/M | BOPM | <u>Days</u> <u>On</u> | MCF/M | <u>BOPM</u> | <u>Days</u> <u>On</u> |
| GNI: | 54.6875% | 54.6875% | Jan | 6,931 | 200.0 | 31 | 7,841 | 0.0 | 31 |
| | | | Feb | 5,954 | 0.0 | 28 | 7,012 | 0.0 | 28 |
| Volumes | | | Mar | 6,229 | 0.0 | 31 | 0 | 0.0 | 31 |
| (Days On) | MCF | <u>BOPD</u> | Apr | 6,203 | 0.0 | 30 | 0 | 0.0 | 0 |
| 7 Day Avg | 307 | 8.6 | May | 3,575 | 12.0 | 16 | 0 | 0.0 | 0 |
| 30 Day Avg | 246 | 0.9 | Jun | 8,215 | 0.0 | 30 | 0 | 0.0 | 0 |
| 60 Day Avg | 110 | 0.4 | Jul | 5,876 | 0.0 | 25.2 | 0 | 0.0 | 0 |
| 3 Mo Avg | 257 | 0.0 | Aug | 6,332 | 0.0 | 31 | 0 | 0.0 | 0 |
| 6 Mo Avg | 260 | 0.6 | Sept | 7,275 | 105.0 | 30 | 0 | 0.0 | 0 |
| 12 MoAvg | 242 | 0.3 | Oct | 8,639 | 0.0 | 31 | 0 | 0.0 | 0 |
| | | | Nov | 7,964 | 0.0 | 30 | 0 | 0.0 | 0 |
| <u>Volumes</u> | | | Dec | 8,274 | 0.0 | 31 | 0 | 0.0 | 0 |
| (Days in Mo | onth) MCFE | <u>BOPD</u> | Total | 81,467 | 317.0 | | 14.853 | 0.0 | |
| 30 Day Avg | 204 | 0.7 | TUIdi | 01,407 | 317.0 | | 14,000 | 0.0 | |
| 60 Day Avg | 101 | 0.4 | | | | | | | |
| 3 Mo Avg | 257 | 0.0 | | | | | Pri | nt Form | |
| 6 Mo Avg | 258 | 0.6 | | | | | | | |
| 12 Mo Avg | 229 | 0.3 | | | | | Exit Vo | lumes C | lata |
| 5/7/98 | | | | | | ••••• | < | | |

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BURLINGTON RESOURCES OIL AND GAS COMPANY

Jicarilla 150 #7M

OFFSET OPERATOR/OWNER PLAT Mesaverde / Dakota Formations Commingle Well

Township 26 North, Range 5 West



1) Burlington Resources

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PLH 4/29/98

Jicarilla 150 7M Sec. 11, T26N, R5W Mesaverde/Dakota