## SUBMIT IN TRIPLICATE\*

(Other instructions on reverse side)

FORM APPROVED OMB NO. 1004-0136 Expires February 28, 1995

## UNITED STATES DEPARTMENT OF THE INTERIOR

5 LEASE DSIGNATION AND SERIAL NO

|   | BU  | JREAU OF         | LAND MANAG                          | GEMEN       | NT                      |                   | CONT 106   |                        |  |  |
|---|---|------------------|-------------------------------------|-------------|-------------------------|-------------------|--|------------------------|--|--|
| APPLI   | CATION  |                  | 6 IF INDIAN, ALLOTTEE OR TRIBE NAME |             |                         |                   |  |                        |  |  |
| a. TYPE OF WORK   |   | <u> </u>         |                                     |             |                         |                   | JICARILLA 7 UNIT AGRREEMENT NAME   |                        |  |  |
| D.R.<br>b. type of well   | ILL 🔀   |                  | DEEPEN                              | لكبا        |                         |                   | , out Adament in   |                        |  |  |
|   | AS KELL   | OTHER            |                                     |             | NGLE MULTIPE<br>VE ZONE | з. г              | 8. FARM OR LEASE NAME WEL  |                        |  |  |
| NAME OF OPERATOR  | Conoco Inc  | . KIMO           |                                     |             | <u> </u>                |                   | 18019 JICARILLA 9. API WELL NO   | B#16 2/8               |  |  |
| ADDRESS AND TELEPHONE NO  |   | 20/5             |                                     |             |                         |                   | ·I _   | 1=01-                  |  |  |
|   | Dr. Ste 43  | 0E. Midland      | d, Tx. 79705-4                      | 500         | 915-686-5794            | 1                 | 30-039-2   |                        |  |  |
| LOCATION OF WELL  |   |                  |                                     |             |                         | <u> </u>          | 723/9<br>Blanco MV/Bas   | ?1599                  |  |  |
| At surface  |   |                  | 1540' FSL                           | & 1185      | 'FEL                    |                   | II. SEC.T., R., M., OR BI<br>AND SURVEY OR ARE   | _ K .                  |  |  |
| At proposed prod. zon   | e   |                  | 1540' F <b>:\$</b> L                | & 1185      | 5' FEL                  |                   | J Sec. 25, T26N, R4W   |                        |  |  |
| A. DISTANCE IN MILES A  | ND DIRECTI  | ON FROM NEA      | EST TOWN OR PO                      | ST OFICE    | •                       |                   | 12 COUNTY OR PARISH  | 13 STATE               |  |  |
|   |   |                  |                                     |             |                         | _                 | Rio Arriba   | NM                     |  |  |
| 5. DISTANCE FROM PROPO<br>LOCATION TO NEARES  | r   |                  |                                     | 16 NO       | OF ACRES IN LEASE       | 17. NO. O<br>TO T | OF ACRES ASSIGNED<br>THIS WELL   |                        |  |  |
| PROPERTY OR LEASE:<br>(Also to nearest drl  | LINE, FT.   | if Any)          |                                     | <u> </u>    |                         |                   | 1520 (1320)  |                        |  |  |
| 8. DISTANCE FROM PROP<br>TO NEAREST WELL, DI  |   |                  |                                     | 19. PR      | OPOSED DEPTH            | 20. ROTA          | RY OR CABLE TOOLS  |                        |  |  |
| OR APPLIED FOR, ON TH   | IS LEASE, FT,   |                  |                                     | <u> </u>    | 8531'                   | <u> </u>          | Rotary   |                        |  |  |
| 1. ELEVATIONS (Show wh  | ether DF, RT  | , GR, etc)       | 71061 CD                            |             |                         |                   | 22. APPROX. DATE WOR   |                        |  |  |
| 3   | ···-  | <del></del> .    | 7186' GR                            |             |                         |                   | 4/15/9   | <u> </u>               |  |  |
|   | 1   |                  |                                     |             | CEMENTING PROGRAM       | 1<br>T            | OHANTITY OF CEMEN  |                        |  |  |
| SIZE OF HOLE  | ļ   | ZE OF CASING     | WEIGHT PER F                        | 001         | SETTING DEPTH 300'      |                   | QUANTITY OF CEMENT  130 SXS, CIrc.   |                        |  |  |
| 7-7/8"  |   | 8-5/8"<br>5-1/2" | 15.5#                               |             | 8231'                   | <u> </u>          | 1195 sxs, circ.  |                        |  |  |
| 7-110   | 1233,   | 3-1/2            | 13.3"                               |             | V231                    | <del> </del> -    | ,,   |                        |  |  |
| attachments:  1. Well Location & A 2. Proposed Well Pla 3. Cementing Plan. 4. Blowout Preventer 5. Surface Use Plan v 6. Pipeline survey plan | Acerage Dec<br>n Outline.<br>r Hookup.<br>with Produc | dication Plat    | (C-102) and ot                      |             | pociated plats.         |                   | d according to the followard of the followard of the followard for | an<br>en<br>en<br>Myen |  |  |
| This application inclu N ABOVE SPACE DESC   | RIBE PROPO  | SED PROGRA       | M: If proposal is to d              | leepen give |                         | zone and pro      | posed new productive zone. If  | proposal is to drill   |  |  |
| 4.  | 1 30 /  | /                |                                     |             | e L. Mankin             |                   |  |                        |  |  |
| SIONED TA   | 1/1/4   | uf-              | тт                                  | TLE Rig     | ht-of-Way Agent         |                   | DATE Marc  | h 4, 1998              |  |  |
| (This space for Fed   | eral or State   | office use)      |                                     |             |                         |                   |  |                        |  |  |
| PERMIT NO   |   |                  |                                     |             | APPROVAL DATE           |                   |  |                        |  |  |
|   |   |                  |                                     |             |                         | ease which w      | ould entitle the applicant to con-   | duct operations the    |  |  |
| CONDITIONS OF APPROVA   |   | ,                | -                                   |             | •                       |                   | •  |                        |  |  |
|   |   |                  |                                     |             |                         |                   | ren e  | . 10                   |  |  |
| (Original   | Signed) HE(   | OTOR A. VIEL     | ALOBOS                              | PAN         | t 1,000 ma              | Mara L            | O DATE APR 2 C C   | H.                     |  |  |
| APPROVED BY   |   |                  | TITLE                               | <u> </u>    | Juli 1.94               | · wy              | <u> </u>   | ·····                  |  |  |

\*See Instructions On Reverse Side

District. PO 80% 1980, HCCCs, NM 88241-1980

State of New Mexico Energy, Minerals & Natural Resources Department Form C-103

District II PO Onawer SD, Antesia, NM 88211-0719

Gevised February 21, 1994 Instructions on back Submit to Appropriate District Office State Lease – 4 Copies Fee Lease – 3 Copies

to Mande

District III 1000 Rio Brazos Ad. Aztec, NM 87410

OIL CONSERVATION DIVISION PO Box 2088 Santa Fe. NM 87504-2088

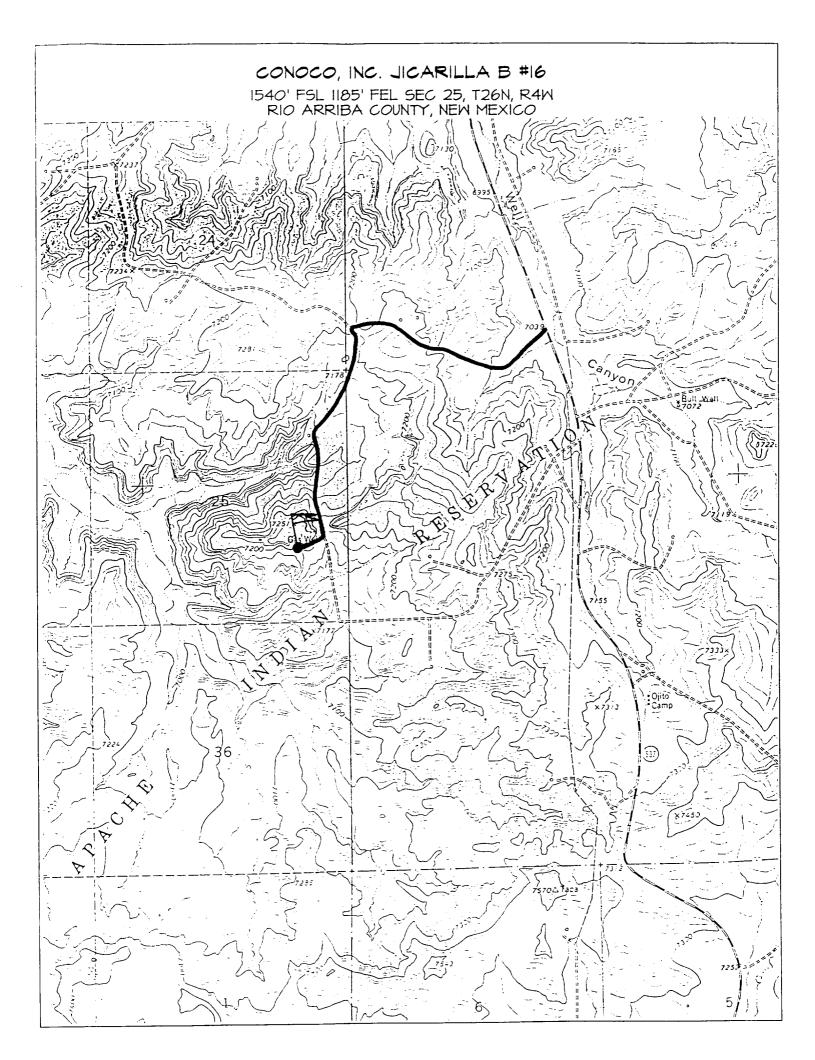
AMENDED REPORT

District IV

| 1 25 26N 4W 1540 South 1185  11 Bottom Hole Location If Different From Surface  U. or lot no. Section Township Range Lot Ion Feet from the North/South line Feet from the Ed  2 Dedicated Acres 13 Joint or Infill 14 Consolidation Code 15 Order No.  320  NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION Interest Consolidation Code 15 Order to 16 Order to 17 OPERATOR Three or Consolidation Code 15 Order to 17 OPERATOR Three or Consolidation Code 15 Order to 17 OPERATOR Three or Consolidation Code 15 OPERATOR THREE OPER |                                  |  |  |  |  |
|--|----------------------------------|--|--|--|--|
| Social No.   Section   S   |                                  |  |  |  |  |
| "Property Name JICARILLA B  "OGPIC No."  "OSPIC No  "ISPIC No  "OSPIC No  "ISPIC No  "OSPIC No  "ISPIC No  "ISPIC No  "OSPIC No  "OSPIC No  "ISPIC No  "OSPIC No  "OSPIC No  "OSPIC No  "ISPIC NO  "IS   |                                  |  |  |  |  |
| JICARILLA B  'Operator Name CONOCO, INC.  1º Surface Location  Lor lot no Section Township Aarge Lot Ian Peet from the North/South line Feet from the I 185  11 Bottom Hole Location If Different From Surface Lot Ian Peet from the North/South line Feet from the I 185  11 Bottom Hole Location If Different From Surface Lot Ian Peet from the North/South line Feet from the I 185  11 Bottom Hole Location If Different From Surface Lot Ian Peet from the North/South line Feet from the I 185  12 Bottom Hole Location If Different From Surface Location I 185  13 Bottom Hole Location I 185  14 Bottom Hole Location I 185  15 Bottom Hole Location I 185  16 Bottom Hole Location I 185  17 Bottom Hole Location I 185  18 Bottom Hole Location I 185  18 Bottom Hole Location I 185  19 Bottom Hole Location I 185  10 Bottom Hole Location I 185  11 Bottom Hole Location I 185  12 Bottom Hole Location I 185  13 Bottom Hole Location I 185  14 Bottom Hole Location I 185  15 Bottom Hole Location I 185  16 Bottom Hole Location I 185  17 Bottom Hole Location I 185  18 Bottom Hole Location I 185  18 Bottom Hole Location I 185  18 Bottom Hole Location I 185  19 Bottom Hole Location I 185  10 Bottom Hole Location I 185  11 Bottom Hole Location I 185  12 Bottom Hole Location I 185  13 Bottom Hole Location I 185  14 Bo | <u>in Dakota</u>                 | a<br>'Well Number  |  |  |  |
| CONOCO. INC.  10 Surface Location  11 25 26N 4W 1540 South 1185  11 Bottom Hole Location If Different From Surface  12 Corlot no Section Township Range Lot for Feet from the North/South line Feet from the Surface Cut or lot no Section Township Range Lot for Feet from the North/South line Feet from the Surface Cut or lot no Section Township Range Lot for Feet from the North/South line Feet from the Surface Surfa |                                  | 18 214   |  |  |  |
| 10 Sunface Location A or lot no Section Township Range Lot ion Feet from the North/South line Feet from the I 25 26N 4W 1540 South 1185  11 Bottom Hole Location If Different From Sunface Location Section Township Range Lot ion Feet from the North/South line Feet from the Feet from the Feet from the Power form the Sunface Location I Different From Sunface Location I Different Fr |                                  | 'Elevation   |  |  |  |
| 10 Surface Location  Location   Section   Township   Pange   Lot Ion   Feet from the   North/South line   Feet from the   El    11 25 26N 4W   1540   South   1185    11 Bottom   Hole Location   If Different   From Surface    12 Location   Township   Range   Lot Ion   Feet from the   North/South line   Feet from the   El    13 Joint or Infill   Consolidation Code   Sorder No.    320 NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION    13 Joint or Infill   Sorder No.   Signature   Mike   Printed Nam    14 Lorenzy Complete   Time and Complete   Time and Complete    28 JOINT   APR   28 1398   25    29 Joint   Colon   Division   Division   Division   Division   Division    30 Joint   Colon   Division   Divi |                                  | 7186   |  |  |  |
| I 25 26N 4W 1540 South 1185  11 Bottom Hole Location If Different From Surface  12 South 1185  13 Bottom Hole Location If Different From Surface  14 Cor lot no. Section Township Range Lot Ion Feet from the North/South line Feet from the Edition Feet from the Section Township Range Lot Ion Feet from the North/South line Feet from the Edition Range Lot Ion Feet from the Section Range Lot Ion Feet from the North/South line Feet from the Edition Range Lot Ion Feet from the Range Lot Ion Rang | <del></del>                      |  |  |  |  |
| 11 Bottom Hole Location If Different From Surface  U. or lot no. Section Township Range Lot for Feet from the North/South line Feet from the Education Acres  320  NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION 15278.68  5278.68  APR 2 8 1398  25  OUI, CONS DIV.  | East/West line                   | e County<br>RIO  |  |  |  |
| Dedicated Acres  3 Joint or Infill 14 Consolidation Code 15 Order No.  320  NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION Interest of Consolidation Code 15 Order No.  5278.68  APR 2 8 1998  APR 2 8 1998  OUIL COMPLETION UNTIL ALL INTERESTS HAVE OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION Interest Consolidation Code 15 Order No.  Signature Mike L.  Printed Nam Right—Title 000000000000000000000000000000000000   | East                             | ARRIB  |  |  |  |
| Dedicated Acres  320  NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION 17 OPERATOR Interest of Complete Interest of  | face                             |  |  |  |  |
| NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION 17 OPERATOR INTEREST HAVE OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION 18 SIGNATURE MIKE LEVEL OF THE PRINCIPLE OF THE | East/West line                   | e County   |  |  |  |
| NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION 17 OPERATOR INTEREST HAVE OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION 18 SIGNATURE MIKE LEVEL OF THE PRINCIPLE OF THE | <u></u>                          |  |  |  |  |
| OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION  5278.68  5278.68  Signature  Mike L  Printed Nam  Right  Title  APR 2 8 1998  25  OIL, CON. Div.  25  APR 2 8 1998  25   |                                  |  |  |  |  |
| Printed Nam Right  APR 2 8 1998  25  OIL CON. DIV.   |                                  | nkin   |  |  |  |
|  | Name  pht-Of-Wa  S-7  /EYOR CEF  | RTIFICATION Industrial Story of Actual Story and the same is true and of the s |  |  |  |
| ate of Sun   | VEMBER 18 Survey  Seal of Totals | 8. 1997<br>EX.   |  |  |  |

1540

5266.80



## PROPOSED WELL PLAN OUTLINE

WELL HAME: Jicarilla B No. 16

EST. GL =

7185 7198

| EST. KB | = |  |  |
|---------|---|--|--|

| FORMATION   TOPS & DRILLING   FORMATION   SIZE   DEPTH   pull*   PSS UNIT   TYPE   DAYS   | LOCATE | ON:         | SEC 25, T-28N, R-                     | 4W, RIO ARRIBA CO., NR | A               |        |                                |  |                 |                        |                |
|---|--------|-------------|---------------------------------------|------------------------|-----------------|--------|--------------------------------|--|-----------------|------------------------|----------------|
| TOPS & DRILLING   FORMATION   HOLE   SIZE   DEPTH   pai/11   PSI   WT   TYPE   DAYS   | L/D    |             | FORMATION                             |                        | TYPE OF         |        | CASING                         | FRAC   | FORMATION       | MUD                    | T1             |
| 1000 MOD   TYPE   PROBLEMS   EVALUATION   SIZE   SIZE   DEPTH   PAUT   PSI   WT   TYPE   DAYS   | IN     |             | TOPS &                                | DRILLING               | FORMATION       | HOLE   |                                | GRAD.  | PRESSURE        |                        |                |
| 11 SAME 24 K SO SO SOME MANUAL SELVEN SON SOME SELVEN SON SOME SELVEN SON SON SOME SELVEN SON SON SON SON SON SON SON SON SON SO  | 1000   | MD          | TYPE                                  | PROBLEMS               |                 |        | SIZE DEPTH                     | ı  |                 | WT TYPE                | DAVE           |
| 7-7-76*  1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1  |        | •           |                                       |                        |                 |        | 8-5/8° 24# K-55                | Part   |                 | 8.4 - 8.82             |                |
| GERROLINAM  ASSESSE WATERLOW  POSSIBLE WATERLOW  POSSIBLE WATERLOW  POSSIBLE SEVER LOST RETURNER  CHA ● 172E*  AD 2 ST CAMP  MACS ● 541F  MACS ● 541F  MACS ● 541F  ASSESSE SEVER LOST  CONTROL FLUE LOSS  PROR TO QUAM  OV TOOL SET ● 43007  CONTROL FLUE LOST  CONTROL FLUE ADDR  TOCKNAME  OV TOOL SET ● 43007  CONTROL FLUE ADDR  OV TOOL SET ● 43007  OV TOOL SET ●  |        |             | · · · · · · · · · · · · · · · · · · · |                        |                 |        | CIRC CIMT                      | <del>                                     </del> | 7.0             |                        | <del>  -</del> |
| ALANYAN MAY AS   LOW AS FOSSIBLE  |        |             |                                       |                        |                 | 7-7/8" |                                | 1  |                 | 8.4 - 8.8#             |                |
| CONTROL FLUB LOSS   PRICE TO DIAM   2325P   |        |             |                                       |                        |                 |        |                                | 1  |                 | GEL/POLYMER            | 1              |
| CONTROL FLUB LOSS   PRICE TO DIAM   2325P   |        |             |                                       |                        |                 |        |                                | 1  | 1               | MAINTAIN MAN AC        | 1              |
| 3 OJAM ₱ 32559 POSSIBLE WATERFLOW POSSIBLE OVERPRESSURE   A32 PSI   PRIOR TO QJAM   A32 PSI   PRIOR TO QJAM   A32 PSI   A36 PSI   A37 P   |        |             |                                       |                        |                 |        |                                |  | 1               | LOW AS POSSIBLE        |                |
| 3 OJAM ₱ 32559 POSSIBLE WATERFLOW POSSIBLE OVERPRESSURE   A32 PSI   PRIOR TO QJAM   A32 PSI   PRIOR TO QJAM   A32 PSI   A36 PSI   A37 P   | 1      |             |                                       |                        |                 |        |                                |  |                 |                        |                |
| 3 OJAM ₱ 32559 POSSIBLE WATERFLOW POSSIBLE OVERPRESSURE   A32 PSI   PRIOR TO QJAM   A32 PSI   PRIOR TO QJAM   A32 PSI   A36 PSI   A37 P   |        |             |                                       |                        |                 |        |                                | 1  |                 |                        |                |
| 3 OJAM ₱ 32559 POSSIBLE WATERFLOW POSSIBLE OVERPRESSURE   A32 PSI   PRIOR TO QJAM   A32 PSI   PRIOR TO QJAM   A32 PSI   A36 PSI   A37 P   |        |             | :                                     |                        |                 |        |                                | 1  |                 |                        |                |
| 3 OJAM ₱ 32559 POSSIBLE WATERFLOW POSSIBLE OVERPRESSURE   A32 PSI   PRIOR TO QJAM   A32 PSI   PRIOR TO QJAM   A32 PSI   A36 PSI   A37 P   |        |             |                                       |                        |                 |        |                                | 1  |                 |                        |                |
| 3 OJAM ₱ 32559 POSSIBLE WATERFLOW POSSIBLE OVERPRESSURE   A32 PSI   PRIOR TO QJAM   A32 PSI   PRIOR TO QJAM   A32 PSI   A36 PSI   A37 P   | i l    |             |                                       |                        |                 |        |                                | 1  |                 |                        |                |
| 3 OJAM ₱ 32559 POSSIBLE WATERFLOW POSSIBLE OVERPRESSURE   A32 PSI   PRIOR TO QJAM   A32 PSI   PRIOR TO QJAM   A32 PSI   A36 PSI   A37 P   |        | <del></del> |                                       |                        |                 |        |                                | 1  |                 |                        |                |
| 3 OJAM ₱ 32559 POSSIBLE WATERFLOW POSSIBLE OVERPRESSURE   A32 PSI   PRIOR TO QJAM   A32 PSI   PRIOR TO QJAM   A32 PSI   A36 PSI   A37 P   | 2      |             |                                       |                        |                 |        |                                | ł  |                 |                        |                |
| 3 OJAM ₱ 32559 POSSIBLE WATERFLOW POSSIBLE OVERPRESSURE   A32 PSI   PRIOR TO QJAM   A32 PSI   PRIOR TO QJAM   A32 PSI   A36 PSI   A37 P   |        |             |                                       |                        |                 |        |                                |  |                 |                        |                |
| 3 OJAM ₱ 32559 POSSIBLE WATERFLOW POSSIBLE OVERPRESSURE   A32 PSI   PRIOR TO QJAM   A32 PSI   PRIOR TO QJAM   A32 PSI   A36 PSI   A37 P   |        | <u> </u>    |                                       |                        |                 |        |                                | 1  |                 |                        |                |
| 3 OJAM ₱ 32559 POSSIBLE WATERFLOW POSSIBLE OVERPRESSURE   A32 PSI   PRIOR TO QJAM   A32 PSI   PRIOR TO QJAM   A32 PSI   A36 PSI   A37 P   |        |             |                                       |                        |                 |        |                                |  |                 |                        |                |
| 3 OJAM ₱ 32559 POSSIBLE WATERFLOW POSSIBLE OVERPRESSURE   A32 PSI   PRIOR TO QJAM   A32 PSI   PRIOR TO QJAM   A32 PSI   A36 PSI   A37 P   | '      |             |                                       |                        |                 |        |                                |  | 1               |                        |                |
| 3 OJAM ₱ 32559 POSSIBLE WATERFLOW POSSIBLE OVERPRESSURE   A32 PSI   PRIOR TO QJAM   A32 PSI   PRIOR TO QJAM   A32 PSI   A36 PSI   A37 P   |        |             |                                       |                        |                 |        |                                |  |                 | CONTROL FLUID LOSS     | 1 1            |
| OLAM ● 2139* POSSIBLE VATERFLOW POSSIBLE ST.OW POSSIBLE WATERFLOW POSSIBLE OVERPRESSURE PACIU # 5100 PS 1000   | ,      |             |                                       |                        |                 |        |                                | 1  |                 | i                      | 1 1            |
| POSSEE LOST RETURNS POSSEE LOST RETURNS POSSEE POSSEE PRINCIAL STICKING  CHAR © 4728'  CLEMAN © 542'  MRDF © 5570'  MRDF © 5570'  MRCS © 6418'  MCS © 6418'  OV TOOL SET © 4300' (CONTINGENT ON LOST CRICULATION)  AQO PSI  OV TOOL SET © 6350' (SO TOOL SET © 6350'   | 1      |             | OJAM @ 3259'                          | POSSIBLE WATERFLOW     |                 |        |                                | 1  | 432 PSI         | THEN TO COMM           |                |
| POSSEE LOST RETURNS POSSEE LOST RETURNS POSSEE POSSEE PRINCIAL STICKING  CHAR © 4728'  CLEMAN © 542'  MRDF © 5570'  MRDF © 5570'  MRCS © 6418'  MCS © 6418'  OV TOOL SET © 4300' (CONTINGENT ON LOST CRICULATION)  AQO PSI  OV TOOL SET © 6350' (SO TOOL SET © 6350'   | 1      |             | FRI D 6 34/4"                         | POSSIBLE GAS FLOW      |                 |        |                                | 1  | 380 PSI         |                        |                |
| CHRA  | 1      | -           |                                       |                        |                 |        |                                |  | 300 131         |                        |                |
| LINKS © 33177   |        |             | PCCF @ 3765'                          | POSSIBLE DIFFERENTIAL  |                 |        |                                | 1  | 1               |                        |                |
| DV TOOL SET @ 4300' ICONTINGENT ON LOST CRCULATION!  400 PSI  515 PSI  617 PSI  618   | 1      |             | LEWS 6 3917'                          | STICKING               |                 |        |                                |  | }               |                        |                |
| CONTINIGENT ON LOST CRICULATION   CLEHANV © 5447' MENF © 5570'  PTILK © 5940' POSSIBLE SEVERE LOST MINCS © 6418'  U. GILLP © 7045' M. GILLP © 7285' SINST © 7598' GRINN © 7306' POSSIBLE WATERFLOW GRI  |        |             |                                       |                        |                 |        |                                | ļ  |                 |                        |                |
| CONTINIGENT ON LOST CRICULATION   CLEHANV © 5447' MENF © 5570'  PTILK © 5940' POSSIBLE SEVERE LOST MINCS © 6418'  U. GILLP © 7045' M. GILLP © 7285' SINST © 7598' GRINN © 7306' POSSIBLE WATERFLOW GRI  | 1      | $\vdash$    |                                       |                        |                 |        |                                |  |                 |                        |                |
| CONTINIGENT ON LOST CRICULATION   CLEHANV © 5447' MENF © 5570'  PTILK © 5940' POSSIBLE SEVERE LOST MINCS © 6418'  U. GILLP © 7045' M. GILLP © 7285' SINST © 7598' GRINN © 7306' POSSIBLE WATERFLOW GRI  |        |             |                                       |                        |                 |        | DV TOOL SET <b>6</b> 4300      | 1  |                 |                        |                |
| CRCULATION!  CHRA © 4728'  CLEMANY © 5447'  MENF © 5570'  PTLK © 5946'  POSSIBLE SEVERE LOST  RETURNS  DV TOOL SET © 8350' (50°-100" ABOVE MICS)  CMT TO DV TOOL © 4300'  TO U. GILP © 7046'  M. GILP © 7288'  SINST © 7598'  GRINI © 7206'  GRINI © 7206'  GRINI © 7206'  GRINI © 7206'  TO U. GRINI © 7206'  AD O 2% KCI © GRIS DKOT  B PAGU © 8186'  N DEEP DAKOTA  CASED HOLE LOGS  7-7/8'  5-1/2' 15.5 # K-55  TO © 8231'  CMT TO DV TOOL AT TOP OF TWICS  10 MICS DK TO PROLYMEN  10 MICS DK TO   | 1      |             |                                       |                        |                 |        | [                              | İ  |                 |                        |                |
| DV TOOL SET ● 8350'   | 1      |             |                                       |                        |                 |        | CIRCULATION                    |  |                 |                        |                |
| MENF © 5570'  PTLK © 5946' POSSIBLE SEVERE LOST RETURNS  DV TOOL SET © 8350' (50'-100' ABOVE MINCS) CMT TO DV TOOL © 4300'  J. GLLP © 7046'  M. GLLP © 7046'  M. GLLP © 7046'  SNST © 7598'  GRINI © 7906' GRAS DKOT © 7970' POSSIBLE WATERFLOW POSSIBLE OVERPRESSURE  ADD 2% KCI © GRAS DKOT  8  PAGU © 5168' NI DEEP DAKOTA  CASED HOLE LOGS  7-7/8' 5-1/2' 15.5# K-55 LTC © 8231' NOTE:  CMT TO DV TOOL © 4300'  15  CMT TO DV TOOL © 4300'  ADD 2% KCI © GRAS DKOT  BHT = 175 deg F  GEL/POLYMER  16  | 1      |             | CHRA @ 4728'                          |                        |                 |        |                                | 1  | 400 PSI         |                        |                |
| MENF © 5570'  PTLK © 5946' POSSIBLE SEVERE LOST RETURNS  DV TOOL SET © 8350' (50'-100' ABOVE MINCS) CMT TO DV TOOL © 4300'  J. GLLP © 7046'  M. GLLP © 7046'  M. GLLP © 7046'  SNST © 7598'  GRINI © 7908' GRINI © 7900' GRIS DKOT © 7970'  B PAGU © 5168' NI DEEP DAKOTA  CASED HOLE LOGS  7-7/8' 5-1/2' 15.5# K-55 LTC © 8231' NOTE:  CMT TO DV TOOL © 4300'  15 PAGU © 5168' NI DEEP DAKOTA  CMT TO DV TOOL © 4300'  16 CASED HOLE LOGS  7-7/8' CTC © 8231' CMT TO DV TOOL TAT TOP OF TANCS  | 1 -    |             | 1                                     |                        |                 |        |                                |  |                 |                        |                |
| MENF © 5570'  PTLK © 5946' POSSIBLE SEVERE LOST RETURNS  DV TOOL SET © 8350' (50'-100' ABOVE MINCS) CMT TO DV TOOL © 4300'  J. GLLP © 7046'  M. GLLP © 7046'  M. GLLP © 7046'  SNST © 7598'  GRINI © 7908' GRINI © 7900' GRIS DKOT © 7970'  B PAGU © 5168' NI DEEP DAKOTA  CASED HOLE LOGS  7-7/8' 5-1/2' 15.5# K-55 LTC © 8231' NOTE:  CMT TO DV TOOL © 4300'  15 PAGU © 5168' NI DEEP DAKOTA  CMT TO DV TOOL © 4300'  16 CASED HOLE LOGS  7-7/8' CTC © 8231' CMT TO DV TOOL TAT TOP OF TANCS  | *      | '           |                                       |                        |                 |        |                                | 1  |                 |                        |                |
| MENF © 5570'  PTLK © 5946' POSSIBLE SEVERE LOST RETURNS  DV TOOL SET © 8350' (50'-100' ABOVE MINCS) CMT TO DV TOOL © 4300'  J. GLLP © 7046'  M. GLLP © 7046'  M. GLLP © 7046'  SNST © 7598'  GRINI © 7908' GRINI © 7900' GRIS DKOT © 7970'  B PAGU © 5168' NI DEEP DAKOTA  CASED HOLE LOGS  7-7/8' 5-1/2' 15.5# K-55 LTC © 8231' NOTE:  CMT TO DV TOOL © 4300'  15 PAGU © 5168' NI DEEP DAKOTA  CMT TO DV TOOL © 4300'  16 CASED HOLE LOGS  7-7/8' CTC © 8231' CMT TO DV TOOL TAT TOP OF TANCS  |        |             | 5,5,000                               |                        |                 |        |                                | 1  |                 |                        |                |
| PTIK © 5946' POSSIBLE SEVERE LOST RETURNS  DV TOOL SET © 8350' (50'-100' ABOVE MINCS) CMT TO DV TOOL © 4300'  U. GLLP © 7046' M. GLLP © 7285' SINST © 7598' GRINN © 7908' GRIS DKOT © 7970' POSSIBLE WATERFLOW GRIS DKOT © 7970' POSSIBLE OVERPRESSURE  PAGU © 8185' POSSIBLE OVERPRESSURE  CASED HOLE LOGS  7-7/8' 5-1/2' 15.5# K-55 IT.O' © 8231' CMT TO DV TOOL SET © 8350'  0.5 716 PSI ADD 2% KCI © GRRS DKOT 8.4 - 8.8# GBL/POLYMER 15 GBL/POLYMER 16   |        | $\vdash$    | 1                                     |                        |                 |        |                                | 0.5  | 457 PSI         |                        |                |
| ## RETURNS    DV TOOL SET   | 1      | <u> </u>    | MENT @ 5570"                          |                        |                 |        |                                | I  |                 |                        | 1              |
| ## RETURNS    DV TOOL SET   |        |             |                                       |                        |                 |        |                                | 1  |                 |                        |                |
| DV TOOL SET @ 8350' (50'-100' ABOVE MNCS)  CMT TO DV TOOL @ 4300'  U. GLLP @ 7048'  M. GLLP @ 7285'  SNST @ 7598'  GRINN @ 7906' GRRS DKOT @ 7970'  B  PAGU @ 8168' N DEEP DAKOTA  CASED HOLE LOGS  7-7/8'  5-1/2' 15.5¢ K-55 LTC @ 8231' CMT TO DV TOOL @ 4300'  0.5  716 PSI ADD 2% KCI @ GRRS DKOT  8.4 - 8.8¢ GEL/POLYMER 16  NOTE:   | 1      |             | FILK (0 5946)                         | T .                    |                 |        |                                | 1  | 1               |                        |                |
| MNCS @ 6418'  | 1 6    | <b>'</b> —  | 1                                     | RETURNS                |                 |        |                                | 1  |                 |                        |                |
| CMT TO DV TOOL <b>©</b> 4300°  CMT TO DV TOOL <b>©</b> |        |             | 1                                     |                        |                 |        | DV TOOL SET <b>●</b> 6350      | 1  | 1               |                        |                |
| 7 U. GLLP © 7046'  M. GLLP © 7285'  SNST © 7598'  GRINN © 7906'  GRAS DKOT © 7970'  B  PAGU © 8168'  N DEEP DAKOTA  CASED HOLE LOGS  7-7/8'  5-1/2" 15.5# K-55  LTC © 8231'  CMIT TO DY TOUL XT TOP OF NINCS  16  | 1      |             | MNCS @ 6418"                          |                        |                 |        |                                | 1  |                 |                        |                |
| M. GLIP © 7285'  SNST © 7598'  GRIN © 7906'  GRIS DKOT © 7970'  POSSIBLE WATERFLOW POSSIBLE OVERPRESSURE  CASED HOLE LOGS  7-7/8'  CMT 10 DV TOOL AT 10P OF KINCS  ADD 2% KCI © GRAS DKOT  8.4 - 8.8# GEL/POLYMER  16   |        |             | ł                                     |                        |                 |        | CMT TO DV TOOL @ 4300'         | 1  |                 |                        |                |
| M. GLIP © 7285'  SNST © 7598'  GRIN © 7906'  GRIS DKOT © 7970'  POSSIBLE WATERFLOW POSSIBLE OVERPRESSURE  CASED HOLE LOGS  7-7/8'  CMT 10 DV TOOL AT 10P OF KINCS  ADD 2% KCI © GRAS DKOT  8.4 - 8.8# GEL/POLYMER  16   | 1      |             | 1                                     |                        |                 |        |                                |  |                 |                        |                |
| M. GLIP © 7285'  SNST © 7598'  GRIN © 7906'  GRIS DKOT © 7970'  POSSIBLE WATERFLOW POSSIBLE OVERPRESSURE  CASED HOLE LOGS  7-7/8'  CMT 10 DV TOOL AT 10P OF KINCS  ADD 2% KCI © GRAS DKOT  8.4 - 8.8# GEL/POLYMER  16   | 1      |             |                                       | •                      |                 |        |                                |  |                 |                        |                |
| SNST © 7598'  GRINN © 7908'  GRINN © 7908'  GRIS DIKOT © 7970'  B  PAGU © 8188'  N DEEP DAKOTA  CASED HOLE LOGS  7-7/8'  | 7      | <b>'</b>    | U. GLLP @ 7046'                       |                        |                 |        |                                |  |                 |                        |                |
| GRINN @ 7906' GRAS DKOT @ 7970'  B  PAGU @ 8168' N DEEP DAKOTA  CASED HOLE LOGS 7-7/8' CASE  | 1      |             | M. GLLP @ 7285'                       | ,                      |                 |        |                                | 1  |                 |                        |                |
| GRINN @ 7906' GRAS DKOT @ 7970'  B  PAGU @ 8168' N DEEP DAKOTA  CASED HOLE LOGS 7-7/8' CASE  |        | F           | SNET 6 7600'                          |                        |                 |        |                                |  |                 |                        |                |
| B   CASED HOLE LOGS   7-7/8"   CASED HOLE LOGS   7-7/8"   5-1/2"   15.5¢ K-55   SHP - 2500 PSI   8.4 - 8.8¢   |        |             | 1                                     |                        |                 |        |                                |  |                 |                        |                |
| 8 PAGU \$ 8188" IN DEEP DAKOTA CASED HOLE LOGS 7-7/8" 5-1/2" 15.5# K-55 BHF - 2500 PSI BHT = 175 deg F GEL/POLYMER 16  1.D. \$ 8231" BHT = 175 deg F GEL/POLYMER 16  CMT 10 UV 100L AT 10P OF MINCS   | 1      |             | GRHN Ø 7908*                          | POSSIBLE WATERFLOW     |                 |        |                                | 0.5  | 716 PSI         | ADD 2% KCI & GRES DKOT |                |
| PAGU © 8188* IN DEEP DAKOTA LTC © 8231* BHT = 175 deg F GEL/POLYMER 18  T.D. © 8231* CMT TO DV TOOL AT TOP OF MINCS  NOTE:  | 1 -    | <b></b>     |                                       | - COUNCE OVERVINESSORE | CASED HOLE LOGS | 7.7/8" | 5.1/2" 15 54 K-55              | 0.5  | ł               |                        | 1 1            |
| I.D. 9 8231 CMITTO BY TOOL AT TOP OF WALCS  | •      | <b>`</b>    | PAGU 9 8168"                          | IN DEEP DAKOTA         | CYSEN MOLE LOGS | /·//B  | LTC 6 8231                     |  | BHT = 175 deg F | GEL/POLYMER            | 16             |
|   | 1      |             | T.D. @ 8231                           |                        |                 |        | CMT TO DV TOOL XT TOP OF MINES | 1  | ·               |                        | 1              |
|   |        |             |                                       |                        |                 |        |                                | J  | 1 _             |                        |                |

APPROVALS: //

02/27/98

Ricky Joyce/Ted Kelly DRILLING ENGINEER

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DRILLING MGR.

10:13 AM

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