



NEW MEXICO ENERGY, MINERALS
& NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION
2040 South Pacheco Street
Santa Fe, New Mexico 87505
(505) 827-7131

November 23, 1998

Cross Timbers Oil Company
810 Houston Street - Suite 2000
Fort Worth, Texas 76102-6298

#12099

Attention: Edwin S. Ryan, Jr.

Re: *Administrative application for an unorthodox gas well location and simultaneous dedication for the proposed Ute Indians "A" Well No. 27 to be drilled 2600 feet from the South line and 1000 feet from the East line (Unit I) of Section 2, Township 31 North, Range 154 West, NMPM, as projected into the unsurveyed Ute Mountain Indian Reservation, San Juan County, New Mexico.*

Dear Mr. Ryan:

The Ute Dome-Dakota Pool in San Juan County, New Mexico is subject to Division statewide Rule 104.C(3)(a), requiring 160-acre spacing and proration units and wells to be located no closer than 790 feet to any outer boundary of the dedicated tract nor closer than 130 feet from any quarter-quarter section or subdivision inner boundary. Further, since the Ute Dome-Dakota Pool is a "non-prorated" gas pool, Division General Rule 104.D(3) applies, which limits standard 160-acre gas spacing units to only one producing well therein. This rule does not provide for an administrative process for exceptions to this one-well rule; therefore, this application will be set for hearing before a Division Hearing Examiner on the next available docket scheduled for December 17, 1998 and will be advertised in the following manner:

"Application of Cross Timbers Oil Company for an unorthodox gas well location and simultaneous dedication, San Juan County, New Mexico. Applicant seeks authorization to drill its Ute Indians "A" Well No. 27 to test both the Ute Dome-Dakota Pool and the Morrison formation at an unorthodox gas well location for both intervals 2600 feet from the South line and 1000 feet from the East line (Unit I) of Section 2, Township 31 North, Range 14 West, as projected into the unsurveyed Ute Mountain Indian Reservation. The SE/4 of Section 2 is to be dedicated to this well to form a standard 160-acre, more or less, gas spacing and proration unit for both intervals. The applicant further seeks an exception to Division General Rule 104.D(3) to continuously and concurrently produce Ute Dome-Dakota Pool gas production from the above-described Ute Indians "A" Well No. 27 and from its existing Ute Indians "A" Well

Cross Timbers Oil Company

November 23, 1998

Page No. 2

No. 20 (API No. 30-045-24605) located at a standard gas well location 1580 feet from the South line and 1520 feet from the East line (Unit J) of Section 2 and for the simultaneous dedication of both wells to the existing 160-acre gas spacing and proration unit comprising the SE/4 of Section 2. This unit is located approximately five miles west of La Plata, New Mexico."

Please provide adequate notice pursuant to Rule 1207.A(5) and (6) of the Division's General Rules and Regulations.

Sincerely,

A handwritten signature in black ink, appearing to read "Michael E. Stogner", with a long horizontal flourish extending to the right.

Michael E. Stogner
Chief Hearing Officer/Engineer

cc: New Mexico Oil Conservation Division - Aztec
Kathy Valdes - NMOCD, Santa Fe
U. S. Bureau of Land Management - Durango, CO

NSL 12/9/98



Cross Timbers Oil Company

November 16, 1998

Bureau of Land Management
San Juan Resource Area
701 Camino Del Rio
Durango, Colorado 81301
Attention: Mr. Dan Rabinowitz

Case 12099

Re: Application for Unorthodox Location and Simultaneous Well Dedication
Ute Dome Dakota Pool and Morrison Sandstone
Ute Indians A #27
SE/4 Section 2-31N-14W
San Juan County, New Mexico

Gentlemen:

Cross Timbers Operating Company hereby requests approval of the following unorthodox location and simultaneous well dedication:

| | |
|---------------------|--|
| Well Name: | Ute Indians A #27 |
| Pool: | Ute Dome Dakota and Morrison Sandstone formation |
| Location: | 2,600' FSL & 1,000' FEL |
| Acreage Dedication: | SE/4 Section 2-31N-14W, containing 160 acres, more or less |
| County/State: | San Juan County, New Mexico |
| Pool Rules: | 790' from lease lines and quarter section lines |
| Existing Well: | Ute Indians A #20 |

Attached is the following support and documentation for said application:

1. C-102 Plat
2. Geologic discussion
3. Copy of certified letter sent to offset operators/owners
 - A. Plat of offset operators
 - B. List of offset operators

We look forward to your approval and please call me at (817) 877-2336 with any questions.

Yours very truly,

Edwin S. Ryan, Jr.

cc: Lori Wrotenbery, Director
New Mexico Oil Conservation Division
2040 South Pacheco
Santa Fe, New Mexico 87505

NMCOD - Aztec District Office
1000 Rio Brazos Road
Aztec, New Mexico 87410

Offset Operators

Gary Burch

Ute Mountain Ute Tribe
P.O. Box 248
Towaoc, Colorado 81334
Attention: Gordon Hammond

Bureau of Indian Affairs
Ute Mountain Ute Agency
P.O. Box KK
Towaoc, Colorado 81334

Bobby Smith - CTOC Midland

Barry Voigt

District I
PO Box 1980, Hobbs, NM 88241-1980

District II
PO Drawer 00, Artesia, NM 88211-0719

District III
1000 Rio Brazos Rd., Aztec, NM 87410

District IV
PO Box 2088, Santa Fe, NM 87504-2088

State of New Mexico
Energy, Minerals & Natural Resources Department

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

Form C-102
Revised February 21, 1994

Instructions on back
Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

| | | | |
|----------------------|---|---------------------|-------------------------------|
| *API Number | | *Pool Code 85720 | *Pool Name UTE DOME DAKOTA |
| *Property Code | *Property Name UTE INDIANS A | | *Well Number 27 |
| *OSRID No. 167067 | *Operator Name CROSS TIMBERS OPERATING COMPANY | | *Elevation 5100' |

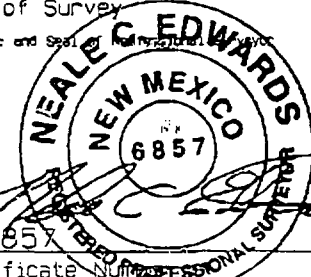
¹⁰ Surface Location

| UL or lot no. | Section | Township | Range | Lot Idn | Feet from the | North/South line | Feet from the | East/West line | County |
|---------------|---------|----------|-------|---------|---------------|------------------|---------------|----------------|----------|
| I | 2 | 31N | 14W | | 2600 | SOUTH | 1000 | EAST | SAN JUAN |

¹¹ Bottom Hole Location If Different From Surface

| UL or lot no. | Section | Township | Range | Lot Idn | Feet from the | North/South line | Feet from the | East/West line | County |
|---------------------------------|---------|-------------------------------|-------|----------------------------------|---------------|-------------------------|---------------|----------------|--------|
| | | | | | | | | | |
| ¹² Dedicated Acreage | | ¹³ Joint or Infill | | ¹⁴ Consolidation Code | | ¹⁵ Order No. | | | |

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED
OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

| | | | | |
|--|----------|--|----------------------------------|---|
| ¹⁶ 1323.96' 4 1320.00' 2640.00' | 5280.00' | | 1323.96' 1320.00' 2640.00' | ¹⁷ OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief. |
| | 2 | | | Signature Gary L. Markestad Printed Name Vice-President / Production Title Date |
| <div>1000' 2600'</div> | | | | ¹⁸ SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief. |
| OCTOBER 22, 1998 Date of Survey | | | |  Signature and Seal of Professional Surveyor 685X Certificate Number |
| 5280.00' | | | | |

UTE INDIANS "A" #27 GEOLOGIC/GEOPHYSICAL SUMMARY

The Ute Indians "A" #27 is a proposed 2600' Dakota/Morrison test to be located 2600' FSL, 1000' FEL, Section 2-T31N-R14W, San Juan County, New Mexico. There is currently one active Dakota well in the SE $\frac{1}{4}$ of Section 2. The Ute Indians "A" #20 is producing only around 30 MCFGPD and has a cumulative production to date of 132 MMCFG.

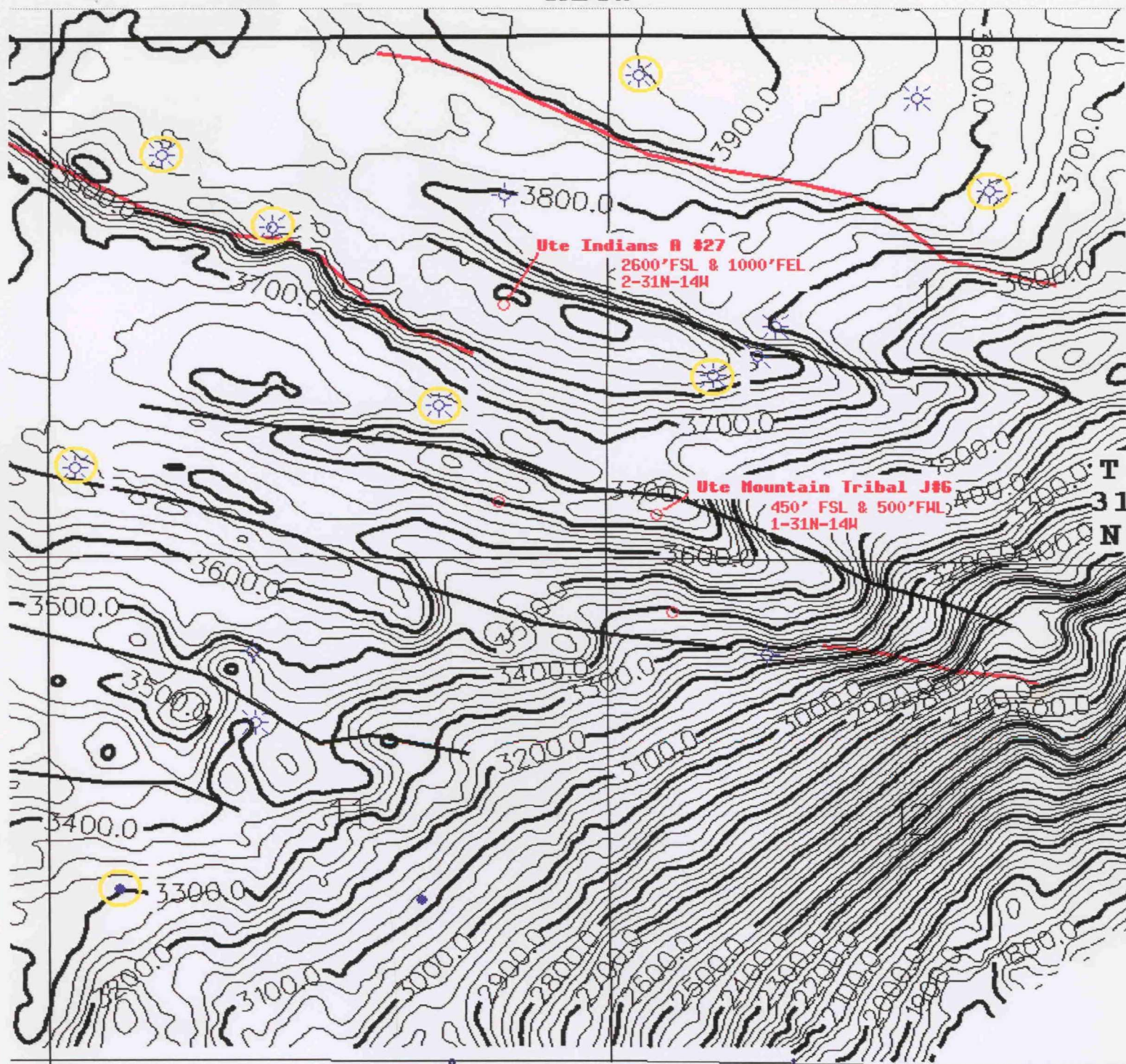
The Ute Dome field is located on a broad semi-circular structure on the Southeastern edge of the Four Corners Platform. On the southeast side of the structure, the entire stratigraphic section dips steeply to the southeast into the San Juan Basin. The southern portion of the structure is bisected at the Dakota level by several WNW-ESE trending normal faults. Vertical displacement along these faults can range up to 250 ft. The faults commonly form four-way structural closures which trap hydrocarbons migrating upward from mature source rocks in the basin.

The attached seismic structure map on the top of the Dakota Fm. was interpreted from a vibroseis 3-D seismic survey shot by Amoco in 1995, and reprocessed by Cross Timbers in 1998. The proposed Ute Indians "A" #27 is located on the western end of a structural closure bounded on the north by a down-to-the-north normal fault. This fault block extends eastward into the NW $\frac{1}{2}$ SW of Section 1 where the lower Dakota/Morrison Sandstones have proven productive in the Ute Mountain Tribal "J" #4 well (1850' FSL, 1110' FWL, Section 1). Presence of the north-bounding fault is confirmed by the Ute Mountain Tribal "H" #1 well (2170' FSL, 1650' FWL, Section 1) which on electric logs has approximately 164 ft. of missing section due to faulting in the Dakota Fm.

The existing Dakota well in the SW $\frac{1}{4}$, Section 2 did not test the interval identified as Morrison which is producing in the Ute Mountain Tribal "J" #4 in the SW $\frac{1}{4}$, Section 1. It is also believed that the existing well will not recover all of the Dakota Hydrocarbons in the SE $\frac{1}{4}$ of Section 2 and that an additional well is necessary. Furthermore, seismic data shows that the existing well in the SE $\frac{1}{4}$ of Section 2 is likely fault separated from the proposed location. The placement of the proposed well in an unorthodox location is based on defining a topographically suitable surface location which will test the highest part of the structure, attempting to establish production from the Morrison similar to that found along the same structure in Section 1, and to recover Dakota reserves which cannot be recovered from the existing well in the SE $\frac{1}{4}$ of Section 2 due to fault separation.



Mary K. Burch
Nov. 11, 1998

R14W



0 1 km 1 miles
CONTOUR INTERVAL: 25 Feet



-  Down-to-North Fault
-  Down-to-South Fault
-  Active Dakota Producing Well



Cross Timbers Oil Company

UTE DOME FIELD
San Juan County, New Mexico

STRUCTURE: Top of Dakota

November, 1998

GKB/MSV

OFFSET OPERATORS/OWNERS

Cross Timbers Oil Company, Applicant, is the only offset operator.

District I
PO Box 1980, Hobbs, NM 88241-1980

District II
811 South First, Artesia, NM 88210

District III
1000 RioBrazos Rd., Aztec, NM 87410

District IV
2040 South Pacheco, Santa Fe, NM 87505

State of New Mexico
Engery, Minerals and Natural Resources Department
OIL CONSERVATION DIVISION
2040 South Pacheco
Santa Fe, NM 87505

Form C-104
Revised October 18, 1994
Instructions on back
Submit to Appropriate District Office
5 Copies

☐ AMENDED REPORT

I. REQUEST FOR ALLOWABLE AND AUTHORIZATION TO TRANSPORT

| | | |
|---|--|---|
| ¹ Operator name and Address CROSS TIMBERS OPERATING COMPANY 6001 Highway 64 Farmington, NM 87401 | | ² OGRID Number 167067 |
| | | ³ Reason for Filing Code 11/98 Change of Operator 12/1/97 |
| ⁴ API Number 30-045-24605 | ⁵ Pool Name UTE DOME DAKOTA | ⁶ Pool Code 86720 |
| ⁷ Property Code | ⁸ Property Name UTE INDIANS A | ⁹ Well Number 20 |

II. ¹⁰ Surface Location

| | | | | | | | | | |
|---------------------------|----------------------|------------------------|---------------------|---------|------------------------------|------------------------------|------------------------------|----------------------------|---------------------|
| Ul or lot no. J | Section 02 | Township 31N | Range 14W | Lot.Idn | Feet from the 1580 | North/South Line S | Feet from the 1520 | East/West line E | County SJ |
|---------------------------|----------------------|------------------------|---------------------|---------|------------------------------|------------------------------|------------------------------|----------------------------|---------------------|

¹¹ Bottom Hole Location

| | | | | | | | | | |
|------------------------------------|-------------------------------------|-----------------------------------|-----------------------------------|------------------------------------|-------------------------------------|------------------|---------------|----------------|--------|
| UL or lot no. | Section | Township | Range | Lot.Idn | Feet from the | North/South Line | Feet from the | East/West line | County |
| ¹² Lse Code U | ¹³ Producing Method Code | ¹⁴ Gas Connection Date | ¹⁵ C-129 Permit Number | ¹⁶ C-129 Effective Date | ¹⁷ C-129 Expiration Date | | | | |

III. Oil and Gas Transporters

| | | | | |
|---------------------------------|--|-------------------|-------------------|--|
| ¹⁸ Transporter OGRID | ¹⁹ Transporter Name and Address | ²⁰ POD | ²¹ O/G | ²² POD ULSTR Location and Description |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

IV. Produced Water

| | |
|-------------------|--|
| ²³ POD | ²⁴ POD ULSTR Location and Description |
|-------------------|--|

V. Well Completion Data

| | | | | | |
|-------------------------|--------------------------------------|-------------------------|----------------------------|---------------------------|-------------------------|
| ²⁵ Spud Date | ²⁶ Ready Date | ²⁷ TD | ²⁸ PBSD | ²⁹ Perforation | ³⁰ DHC,DC,MC |
| ³¹ Hole Size | ³² Casing and Tubing Size | ³³ Depth Set | ³⁴ Sacks Cement | | |
| | | | | | |
| | | | | | |
| | | | | | |

VI. Well Test Data

| | | | | | |
|--|---------------------------------|-------------------------|--------------------------------------|-----------------------------|-----------------------------|
| ³⁵ Date New Oil | ³⁶ Gas Delivery Date | ³⁷ Test Date | ³⁸ Test Length | ³⁹ Tbg. Pressure | ⁴⁰ Csg. Pressure |
| ⁴¹ Choke Size | ⁴² Oil | ⁴³ Water | ⁴⁴ Gas | ⁴⁵ AOF | ⁴⁶ Test Method |
| ⁴⁷ I hereby certify that the rules of the Oil Conservation Division have been complied with and that the information given above is true and complete to the best of my knowledge and belief. Signature: <i>Vaughn O. Vannerberg</i> | | | OIL CONSERVATION DIVISIO | | |
| Printed Name: Vaughn O. Vannerberg, II | | | Approved by: Frank T. Chavez | | |
| Title: Sr. Vice President-Land | | | Title: Supervisor District #3 | | |
| Date: December 1, 1997 | | | Approval Date: | | |
| Phone: (505) 632-5200 | | | | | |

| | | | | |
|--|------------------------|--|-----------------|----------------------|
| ⁴⁸ If this is a change of operator fill in the OGRID number and name of the previous operator | | Amoco Production Company | | OGRID# 000778 |
| <i>[Signature]</i> | Carol Jefferson | Senior Administrative Staff Assistant | 12/01/97 | |
| Previous Operator Signature | Printed Name | Title | Date | |

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

OIL CONSERVATION DIVISION
P. O. BOX 2088
SANTA FE, NEW MEXICO 87501

Form C-104
Revised 10-01-78
Format 06-01-83
Page 1

REQUEST FOR ALLOWABLE
AND
AUTHORIZATION TO TRANSPORT OIL AND NATURAL GAS

| | |
|--|---|
| 1. Operator Amoco Production Company | |
| Address 2325 East 30th Street; Farmington, NM 87401 | |
| Reason(s) for filing (Check proper box) | |
| <input type="checkbox"/> New Well | Change in Transporter of: |
| <input type="checkbox"/> Recompletion | <input type="checkbox"/> Oil |
| <input type="checkbox"/> Change in Ownership | <input type="checkbox"/> casinghead Gas |
| | <input checked="" type="checkbox"/> Dry Gas |
| | <input type="checkbox"/> Condensate |
| Other (Please explain) | |

If change of ownership give name
and address of previous owner _____

II. DESCRIPTION OF WELL AND LEASE

| | | | | |
|---|----------------|---|---|------------------------------|
| Lease Name Ute Indians A | Well No. 20 | Pool Name, including Formation Ute Dome Dakota | Kind of Lease State, Federal or Free Federal | Lease No. I-22- IND-61 |
| Location | | | | |
| Unit Letter J : 1580 Feet From The South Line and 1520 Feet From The East | | | | |
| Line of Section 2 Township 31N Range 14W NMPM San Juan County | | | | |

III. DESIGNATION OF TRANSPORTER OF OIL AND NATURAL GAS

| | |
|--|--|
| Name of Authorized Transporter of Oil <input type="checkbox"/> or Condensate <input checked="" type="checkbox"/> | Address (Give address to which approved copy of this form is to be sent) |
| Permian Corporation | P. O. Box 1702; Farmington, NM 87499 |
| Name of Authorized Transporter of Casinghead Gas <input type="checkbox"/> or Dry Gas <input checked="" type="checkbox"/> | Address (Give address to which approved copy of this form is to be sent) |
| Sunterra Gas Gathering Company | P. O. Box 26400; Albuquerque, NM 87125 |
| If well produces oil or liquids, give location of tanks. | Unit Sec. Twp. Rge. |
| | Is gas actually connected? When |
| | Yes 10-1-81 |

If this production is commingled with that from any other lease or pool, give commingling order number: _____

NOTE: Complete Parts IV and V on reverse side if necessary.

VI. CERTIFICATE OF COMPLIANCE

I hereby certify that the rules and regulations of the Oil Conservation Division have been complied with and that the information given is true and complete to the best of my knowledge and belief.

B. S. Shaw

Adm. Supervisor

(Signature)

(Title)

5-22-87

(Date)

OIL CONSERVATION DIVISION

APPROVED _____ 19
BY *[Signature]*
TITLE _____

This form is to be filed in compliance with RULE 1104.

If this is a request for allowable for a newly drilled or deeper well, this form must be accompanied by a tabulation of the deviate tests taken on the well in accordance with RULE 111.

All sections of this form must be filled out completely for all wells on new and recompleted wells.

Fill out only Sections I, II, III, and VI for changes of own well name or number, or transporter, or other such change of conditions.

Separate Forms C-104 must be filed for each pool in multi-completed wells.

OIL CONSERVATION COMMISSION

1000 Rio Brazos Road

AZTEC, NEW MEXICO 87410

NOTICE OF GAS CONNECTION

DATE October 2, 1981

THIS IS TO NOTIFY THE OIL CONSERVATION COMMISSION THAT CONNECTION FOR THE PURCHASE OF

GAS FROM THE Amoco Production Company

OPERATOR

Ute Indians A

LEASE

20

WELL UNIT

(J)02-31N-14W

S - T - R

Ute Dome Dakota

POOL

Southern Union Gathering Company

NAME OF PURCHASER

WAS MADE ON 10-1-81

DATE

, FIRST DELIVERY 10-1-81

DATE

1041

INITIAL POTENTIAL

Southern Union Gathering Company
PURCHASER

James R. Large
REPRESENTATIVE

James R. Large

Dispatch Manager

TITLE

/sw

cc: OPERATOR

New Mexico Oil Conservation Commission - Aztec

U. S. Geological Survey

Mr. E. R. Corliss, Engineering

Mr. R. J. McCrary, Prorations

Ms. Nylene Dickson, Gas Measurement

Mr. Jim Bowlby, Gas Accting.

Mr. Mike Lambert, Gas Supply

FORM 29-43 11-76 Mr. Richard Thomas, Gas Supply

Mr. Perry McFarland, Kutz

File

045

U

OIL CONSERVATION DIVISION

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

REQUEST FOR ALLOWABLE
AND
AUTHORIZATION TO TRANSPORT OIL AND NATURAL GAS

| | |
|-------------------|-----|
| DATE RECEIVED | |
| DISTRIBUTION | |
| SANTA FE | |
| FILE | |
| U.S.G.E. | |
| LAND OFFICE | |
| TRANSPORTER | OIL |
| | GAS |
| OPERATOR | |
| PRODUCTION OFFICE | |
| Operator | |

AMOCO PRODUCTION COMPANY

Address

501 Airport Dr., Farmington, NM 87401

Reason(s) for filing (Check proper box)

New Well

☒

Change in Transporter of:

Recompletion

☐

Oil

☐

Dry Gas

☐

Change in Ownership

☐

Casinghead Gas

☐

Condensate

☐

Other (Please explain)

If change of ownership give name
and address of previous owner

II. DESCRIPTION OF WELL AND LEASE

| | | | | |
|-------------------|--------------|--------------------------------|-------------------------------|--------------------|
| Lease Name | Well No. | Pool Name, Including Formation | Kind of Lease | Lease No. |
| Ute Indians "A" | 20 | Ute Dome Dakota | State, Federal or Fee Federal | 1-22-Ind- |
| Location | | | | 619 |
| Unit Letter J | 1580 | Feet From The South | Line and 1520 | Feet From The East |
| Line of Section 2 | Township 31N | Range 14W | NMPM, | County |

III. DESIGNATION OF TRANSPORTER OF OIL AND NATURAL GAS

| | | |
|---|----------------------------|--|
| Name of Authorized Transporter of Oil | or Condensate | Address (Give address to which approved copy of this form is to be sent) |
| Name of Authorized Transporter of Casinghead Gas | or Dry Gas | Address (Give address to which approved copy of this form is to be sent) |
| Southern Union Gathering Company | | P. O. Box 1899, Bloomfield, NM 87413 |
| If well produces oil or liquids, give location of tanks. | Unit J | Sec. 2 |
| | Twp. 31N | Rge. 14W |
| | Is gas actually connected? | When |
| | No | |

If this production is commingled with that from any other lease or pool, give commingling order number:

IV. COMPLETION DATA

| | | | | | | | | |
|--|-----------------------------|-------------------|--------------|----------|--------|-----------|-------------|--------------|
| Designate Type of Completion - (X) | Oil Well | Gas Well | New Well | Workover | Deepen | Plug Back | Same Res'v. | Diff. Res'v. |
| | | X | X | | | | | |
| Date Spudded | Date Compl. Ready to Prod. | Total Depth | P.B.T.D. | | | | | |
| 2/12/81 | 4/2/81 | 2799' | 2760' | | | | | |
| Elevations (DF, RKB, RT, GR, etc.) | Name of Producing Formation | Top Oil/Gas Pay | Tubing Depth | | | | | |
| 6230' GL | Ute Dome Dakota | 2564' | 2722' | | | | | |
| Perforations | | Depth Casing Shoe | | | | | | |
| 2564-2575, 2602'-2614', 2626'-2630', 2680'-2705' | | 2799' | | | | | | |
| TUBING, CASING, AND CEMENTING RECORD | | | | | | | | |
| HOLE SIZE | CASING & TUBING SIZE | DEPTH SET | SACKS CEMENT | | | | | |
| 12 1/4" | 8 5/8" 24# | 313' | 320 | | | | | |
| 7 7/8" | 4 1/2" 10.5# | 2799' | 700 | | | | | |
| | 2 3/8" | 2722' | | | | | | |

V. TEST DATA AND REQUEST FOR ALLOWABLE OIL WELL (Test must be after recovery of total volume of load oil and must be equal to or exceed top allowable for this depth or be for full 24 hours)

| | | | |
|---------------------------------|-----------------|---|------------|
| Date First New Oil Run To Tanks | Date of Test | Producing Method (Flow, pump, gas lift, etc.) | |
| | | | |
| Length of Test | Tubing Pressure | Casing Pressure | Choke Size |
| | | | |
| Actual Prod. During Test | Oil-Bbls. | Water-Bbls. | Gas-MCF |
| | | | |

GAS WELL

| | | | |
|----------------------------------|---------------------------|---------------------------|-----------------------|
| Actual Prod. Test-MCF/D | Length of Test | Bbls. Condensate/MMCF | Gravity of Condensate |
| 1041 | 3 hrs. | | |
| Testing Method (pitot, back pr.) | Tubing Pressure (shut-in) | Casing Pressure (shut-in) | Choke Size |
| Back pressure | 675 psig | 708 psig | .75" |

VI. CERTIFICATE OF COMPLIANCE

I hereby certify that the rules and regulations of the Oil Conservation Division have been complied with and that the information given above is true and complete to the best of my knowledge and belief.

JUN 01 1981

District Administrative Supervisor

MAY 5 1981

(Date)

OIL CONSERVATION DIVISION

5-13-81

MAY 13 1981

APPROVED

BY

TITLE

This form is to be filed in compliance with RULE 1104.

If this is a request for allowable for a newly drilled or deepened well, this form must be accompanied by a tabulation of the deviation tests taken on the well in accordance with RULE 111.

All sections of this form must be filled out completely for allowable on new and recompleted wells.

Fill out only Sections I, II, III, and VI for changes of owner, well name or number, or transporter, or other such change of condition. Separate Forms C-104 must be filed for each pool in multiple.

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN DUPLICATE*

See other in-
structions on
reverse side)Form approved.
Budget Bureau No. 42-R355.5.

WELL COMPLETION OR RECOMPLETION REPORT AND LOG*

| | | | | | | | |
|--|-----------------|--|--|--|------------------------------------|--|---------------|
| 1a. TYPE OF WELL: | | OIL WELL <input type="checkbox"/> | GAS WELL <input checked="" type="checkbox"/> | DRY <input type="checkbox"/> | Other _____ | | |
| b. TYPE OF COMPLETION: | | NEW WELL <input checked="" type="checkbox"/> | WORK OVER <input type="checkbox"/> | DEEP-EN <input type="checkbox"/> | PLUG BACK <input type="checkbox"/> | DIFF. RESVR. <input type="checkbox"/> | Other _____ |
| 2. NAME OF OPERATOR Amoco Production Company | | | | | | 5. LEASE DESIGNATION AND SERIAL NO. 1-22-IND-619 | |
| 3. ADDRESS OF OPERATOR 501 Airport Dr., Farmington, N.M. 87401 | | | | | | 6. IF INDIAN, ALLOTTEE OR TRIBE NAME Ute Mountain Tribe | |
| 4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)* At surface 1580' FSL x 1520' FEL At top prod. interval reported below Same At total depth Same | | | | | | 7. UNIT AGREEMENT NAME Develop Contract 14-20-604-62 | |
| 14. PERMIT NO. _____ DATE ISSUED _____ | | | | | | 8. FARM OR LEASE NAME Ute Indians "A" | |
| 15. DATE SPUDDED 2-12-81 | | | | | | 9. WELL NO. 20 | |
| 16. DATE T.D. REACHED 2-17-81 | | | | | | 10. FIELD AND POOL, OR WILDCAT Ute Dome Dakota | |
| 17. DATE COMPL. (Ready to prod.) 4-2-81 | | | | | | 11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA NW/4, SE/4, Section 2 T31N, R14W | |
| 18. ELEVATIONS (DF, BSB, RT, GR, ETC.)* 6030' GL | | | | | | 12. COUNTY OR PARISH San Juan | |
| 19. ELEV. CASINGHEAD | | | | | | 13. STATE NM | |
| 20. TOTAL DEPTH, MD & TVD 2799' | | 21. PLUG, BACK T.D., MD & TVD 2760' | | 22. IF MULTIPLE COMPL., HOW MANY* → | | 23. INTERVALS DRILLED BY 0-TD | |
| 24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)* 2564'-2576', 2602'-2614', 2626'-2630', 2680' 2705, Ute Dome Dakota | | | | | | 25. WAS DIRECTIONAL SURVEY MADE No. | |
| 26. TYPE ELECTRIC AND OTHER LOGS RUN Comp density neutron, dual induction, GR | | | | | | 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# | 313' | 12 1/4" | 520 SX | | | |
| 4 1/2" | 10.5# | 2799 | 7 7/8" | 700 SX | | | |
| 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" | 2722' | | | | | | |
| 31. PERFORATION RECORD (Interval, size and number) | | | | 32. ACID, SEPT, FRACTURE, CEMENT SQUEEZE, ETC. | | | |
| 2564'-2576, 2602'-2614, 2626'-2630', 2680'-2705' with 2 spf, a total of 106, .38" holes | | | | DEPTH INTERVAL (MD) | | | |
| | | | | 2564'-2705' | | | |
| | | | | AMOUNT AND KIND OF MATERIAL USED | | | |
| | | | | 77,000 gallons of foam and 124,000 # of 20-40 sand | | | |
| 33. PRODUCTION | | | | | | | |
| DATE FIRST PRODUCTION | | PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump) Flowing FE | | | | WELL STATUS (Producing 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 |
| 4-24-81 | 3 hrs. | .75" | → | | 1041 | | |
| FLOW. TUBING PRESS. | CASING PRESSURE | CALCULATED 24-HOUR RATE | OIL—BBL. | GAS—MCF. | WATER—BBL. | OIL GRAVITY-API (CORR.) | |
| 78 PSIG | 218 PSIG | → | | | | | |
| 34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.) To be sold | | | | | | TEST WITNESSED BY | |
| 35. LIST OF ATTACHMENTS | | | | | | | |
| 36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records | | | | | | | |
| SIGNED _____ | | TITLE Dist. Admin. Supv. | | | DATE MAR 7 1981 | | |

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

INSTRUCTIONS

General: This form is designed for submitting a complete and correct well completion report and log on all types of lands and leases to either a Federal agency or a State agency, or both, pursuant to applicable Federal and/or State laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office. See instructions on items 22 and 24, and 33, below regarding separate reports for separate completions.

If not filed prior to the time this summary record is submitted, copies of all currently available logs (drillers, geologists, sample and core analysis, all types electric, etc.), formation and pressure tests, and directional surveys, should be attached hereto, to the extent required by applicable Federal and/or State laws and regulations. All attachments should be listed on this form, see item 32.

Item 4: If there are no applicable State requirements, locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local State or Federal office for specific instructions.

Item 18: Indicate which elevation is used as reference (where not otherwise shown) for depth measurements given in other spaces on this form and in any attachments.

Items 22 and 24: If this well is completed for separate production from more than one interval zone (multiple completion), so state in item 22, and in item 24 show the producing interval, or intervals, top(s) and bottom(s) (if any) for only the interval reported in item 33. Submit a separate report (page) on this form, adequately identified, for each additional interval to be separately produced, showing the additional data pertinent to such interval.

Item 29: "Sacks Cement": Attached supplemental records for this well should show the details of any multiple stage cementing and the location of the cementing tool.

Item 33: Submit a separate completion report on this form for each interval to be separately produced. (See instruction for items 22 and 24 above.)

| 27. SUMMARY OF POROUS ZONES: | | | 28. GEOLOGIC MARKERS | | | |
|--|-------------|-------------|-----------------------------------|------|-------------|------------------|
| SHOW ALL IMPORTANT ZONES OF POROSITY AND CONTENTS THEREOF: CORED INTERVALS; AND ALL DRILL-STEM TESTS, INCLUDING DEPTH INTERVAL TESTED, CUSHION USED, TIME TOOL OPEN, FLOWING AND SHUT-IN PRESSURES, AND RECOVERIES | | | | | | |
| FORMATION | TOP | BOTTOM | DESCRIPTION, CONTENTS, ETC. | NAME | MEAS. DEPTH | TRUE VERT. DEPTH |
| Mancoos | not on logs | 2564 | Shale | | | |
| Greenhorn | 2442 | 2492 | Shaly Sandstone x Sandy Limestone | | | |
| Graneros DK | 2504 | 2616 | Sandstone | | | |
| Main DK | 2616 | 2734 | Sandstone x shale | | | |
| Lower DK | 2734 | not on logs | Sandstone x shale | | | |

NEW MEXICO OIL CONSERVATION COMMISSION
MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122
Revised 9-1-65

| | | | | | | | |
|--|-------------|-------------------------|-------------------|--|--------------------|-------------------------------|-----------|
| Type Test <input checked="" type="checkbox"/> Initial <input type="checkbox"/> Annual <input checked="" type="checkbox"/> Special | | | | Test Date 4/24/81 | | | |
| Company Amoco Production Company | | | | Connection Southern Union Gas Company | | | |
| Pool Ute Dome | | | | Formation Dakota | | Unit | |
| Completion Date 4/2/81 | | Total Depth 2799 | | Plug Back TD 2760 | | Elevation 6230 | |
| Farm or Lease Name Ute Indians "A" | | Well No. 20 | | | | | |
| Csg. Size 4.500 | Wt. 10.5 | d 4.052 | Set At 2799 | Perforations: From 2564 To 2705 | | | |
| Tbg. Size 2.375 | Wt. 4.7 | d 1.995 | Set At 2722 | Perforations: From open To ended | | | |
| Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single | | | | Packer Set At None | | County San Juan | |
| Producing Thru Tubing | | Reservoir Temp. °F θ | | Mean Annual Temp. °F | | Baro. Press. - P _a | |
| State New Mexico | | | | | | | |
| L | H | Gg | % CO ₂ | % N ₂ | % H ₂ S | Prover | Meter Run |
| | | | | | | Taps | |

| FLOW DATA | | | | | | TUBING DATA | | CASING DATA | | Duration of Flow | |
|-----------|------------------|---|--------------|-----------------|----------------------|-------------|-----------------|-------------|-----------------|------------------|----------|
| NO. | Prover Line Size | X | Orifice Size | Press. p.s.i.g. | Diff. h _w | Temp. °F | Press. p.s.i.g. | Temp. °F | Press. p.s.i.g. | | Temp. °F |
| SI | 12 Days | | | | | | 675 | | 708 | | |
| 1. | 2.375 | | .750 | | | | 78 | | 218 | | 3 Hrs. |
| 2. | | | | | | | | | | | |
| 3. | | | | | | | | | | | |
| 4. | | | | | | | | | | | |
| 5. | | | | | | | | | | | |

| RATE OF FLOW CALCULATIONS | | | | | | | |
|---------------------------|-----------------------|------------------|-------------------------|-----------------------|-------------------|-----------------------------|------------------------|
| NO. | Coefficient (24 Hour) | $\sqrt{h_w P_m}$ | Pressure P _m | Flow Temp. Factor Ft. | Gravity Factor Fg | Super Compress. Factor, Fpv | Rate of Flow Q, Mscf/d |
| 1 | 12.365 | | 90 | 1.000 | .9258 | 1.010 | 1041 |
| 2. | | | | | | | |
| 3. | | | | | | | |
| 4. | | | | | | | |
| 5. | | | | | | | |

| NO. | P _t | Temp. °R | T _r | Z | Gas Liquid Hydrocarbon Ratio | A.P.I. Gravity of Liquid Hydrocarbons | Specific Gravity Separator Gas | Specific Gravity Flowing Fluid | Critical Pressure | Critical Temperature |
|-----|----------------|----------|----------------|---|------------------------------|---------------------------------------|--------------------------------|--------------------------------|-------------------|----------------------|
| 1. | | | | | | | | | | |
| 2. | | | | | | | | | | |
| 3. | | | | | | | | | | |
| 4. | | | | | | | | | | |
| 5. | | | | | | | | | | |

| NO. | P _t | P _w | P _c ² | P _w ² | P _c ² - P _w ² |
|-----|----------------|----------------|-----------------------------|-----------------------------|---|
| 1 | | 230 | 52900 | 465500 | |
| 2 | | | | | |
| 3 | | | | | |
| 4 | | | | | |
| 5 | | | | | |

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.1136$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.0840$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1129$

| | | | | |
|--------------------|------|---------------|------------------|--------------|
| Absolute Open Flow | 1129 | Mscf @ 15.025 | Angle of Slope θ | Slope, n .75 |
|--------------------|------|---------------|------------------|--------------|

Remarks: Flowed dry.

| | | | |
|------------------------|---------------------|------------------------------|------------|
| Approved By Commission | Conducted By JJB | Calculated By J J BARNETT | Checked By |
|------------------------|---------------------|------------------------------|------------|

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use Form 9-331-C for such proposals.)

1. oil ☐ well gas ☒ well other

2. NAME OF OPERATOR
AMOCO PRODUCTION COMPANY

3. ADDRESS OF OPERATOR
501 Airport Drive, Farmington, NM 87401

4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)
AT SURFACE: 1580' FSL X 1520' FEL
AT TOP PROD. INTERVAL: Same
AT TOTAL DEPTH: Same

16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

| REQUEST FOR APPROVAL TO: | | SUBSEQUENT REPORT OF: |
|--------------------------|--------------------------|--------------------------|
| TEST WATER SHUT-OFF | <input type="checkbox"/> | <input type="checkbox"/> |
| FRACTURE TREAT | <input type="checkbox"/> | <input type="checkbox"/> |
| SHOOT OR ACIDIZE | <input type="checkbox"/> | <input type="checkbox"/> |
| REPAIR WELL | <input type="checkbox"/> | <input type="checkbox"/> |
| PULL OR ALTER CASING | <input type="checkbox"/> | <input type="checkbox"/> |
| MULTIPLE COMPLETE | <input type="checkbox"/> | <input type="checkbox"/> |
| CHANGE ZONES | <input type="checkbox"/> | <input type="checkbox"/> |
| ABANDON* | <input type="checkbox"/> | <input type="checkbox"/> |
| (other) Completion | <input type="checkbox"/> | <input type="checkbox"/> |

5. LEASE
I-22-IND-619

6. IF INDIAN, ALLOTTEE OR TRIBE NAME
Ute Mountain Tribe

7. UNIT AGREEMENT NAME
14-20-604-62

8. FARM OR LEASE NAME
Ute Indians A

9. WELL NO.
20

10. FIELD OR WILDCAT NAME
Ute Dome Dakota

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
NW/4 SW/4 Section 2
T31N, R14W

12. COUNTY OR PARISH
San Juan

13. STATE
NM

14. API NO.
30-045-24605

15. ELEVATIONS (SHOW DF, KDB, AND WD)
6230' GL

(NOTE: Report results of multiple completion or zone change on Form 9-330.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Completion operations commenced on 3-27-81. Total depth of the well is 2799', and plugback depth is 2760'. Perforated interval from 2564-2576', 2602-2614', 2626-2630', and 2680-2705' with 2 spf, a total of 106, .38" holes. Foam fraced with 77,000 Gallons of foam and 124,000# of sand. Landed 2-3/8" tubing at 2722'. Released the rig on 4-2-81.

Subsurface Safety Valve: Manu. and Type

Set @ Ft.

18. I hereby certify that the foregoing is true and correct

Original Signed by

SIGNED E. E. SVOBODA

TITLE Dist Admin Supvr

DATE April 9, 1981

(This space for Federal or State office use)

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use Form 9-331-C for such proposals.)

1. oil ☐ well gas ☒ well other

2. NAME OF OPERATOR
AMOCO PRODUCTION COMPANY

3. ADDRESS OF OPERATOR
501 Airport Drive, Farmington, N.M.

4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)
AT SURFACE: 1580' FSL x 1520' FEL
AT TOP PROD. INTERVAL: Same
AT TOTAL DEPTH: Same

16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

REQUEST FOR APPROVAL TO: SUBSEQUENT REPORT OF:

| | | |
|-----------------------------|--------------------------|--------------------------|
| TEST WATER SHUT-OFF | <input type="checkbox"/> | <input type="checkbox"/> |
| FRACTURE TREAT | <input type="checkbox"/> | <input type="checkbox"/> |
| SHOOT OR ACIDIZE | <input type="checkbox"/> | <input type="checkbox"/> |
| REPAIR WELL | <input type="checkbox"/> | <input type="checkbox"/> |
| PULL OR ALTER CASING | <input type="checkbox"/> | <input type="checkbox"/> |
| MULTIPLE COMPLETE | <input type="checkbox"/> | <input type="checkbox"/> |
| CHANGE ZONES | <input type="checkbox"/> | <input type="checkbox"/> |
| ABANDON* | <input type="checkbox"/> | <input type="checkbox"/> |
| (other) Spud and Set Casing | | |

5. LEASE
1-22-IND-619

6. IF INDIAN, ALLOTTEE OR TRIBE NAME
Ute Mountain Tribe

7. UNIT AGREEMENT NAME Develop Contract
14-20-604-62

8. FARM OR LEASE NAME
Ute Indians "A"

9. WELL NO.
20

10. FIELD OR WILDCAT NAME
Ute Dome Dakota

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA NW/4 SW/4 Section 2,
T31N, R14W

12. COUNTY OR PARISH 13. STATE
San Juan New Mexico

14. API NO.
30-045-24605

15. ELEVATIONS (SHOW DF, KDB, AND WD)
6230' GI

(NOTE: Report results of multiple completion or zone change on Form 9-330.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

Spudded a 12 1/4" hole in 2-12-81 and drilled to 313'. Set 8 5/8" 24# surface casing at 313' on 2-13-81. Drilled a 7 7/8" hole to a TD of 2800'. Ran 4 1/2" 10.5# production casing and set at 2799'. Cemented with 580sx of Class "B" neat cement with 50/50 POZ, 6% of gel, 2# medium tufplug per sx, and .8 % fluid loss additive. This was tailed in with 120 sx of Class "B" neat cement. Good cement was circulated to the surface. The rig was released on 2-17-81.

Subsurface Safety Valve: Manu. and Type _____ Set @ _____ Ft.

18. I hereby certify that the foregoing is true and correct

SIGNED _____ TITLE Dist. Admin. SUP DATE 2/24/81

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____
CONDITIONS OF APPROVAL, IF ANY:

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1. TYPE OF WORK

DRILL ☒DEEPEN ☐PLUG BACK ☐

2. NAME OF WELL

OIL
WELL ☐GAS
WELL ☒

OTHER

SINGLE
ZONE ☒MULTIPLE
ZONE ☐

3. NAME OF OPERATOR

AMOCO PRODUCTION COMPANY

4. ADDRESS OF OPERATOR

501 Airport Drive, Farmington, New Mexico 87401

5. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)*

At surface

1580' FSL and 1520' FEL, Section 2, T31N, R14W

At proposed prod. zone

Same

6. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*

5 miles West of La Plata, New Mexico

7. DISTANCE FROM PROPOSED*

LOCATION TO NEAREST
PROPERTY OR LEASE LINE, FT.
(Also to nearest drlg. unit line, if any)

1520'

8. DISTANCE FROM PROPOSED LOCATION*

TO NEAREST WELL, DRILLING, COMPLETED,
OR APPLIED FOR, ON THIS LEASE, FT.

1300'

9. NO. OF ACRES IN LEASE

4200.00

10. PROPOSED DEPTH

2500'

11. NO. OF ACRES ASSIGNED
TO THIS WELL

160

12. ROTARY OR CABLE TOOLS*

Rotary

13. ELEVATIONS (Show whether DP, RT, GR, etc.)

6230' GL

14. APPROX. DATE WORK WILL START*

As soon as permit

15.

PROPOSED CASING AND CEMENTING PROGRAM

| SIZE OF HOLE | SIZE OF CASING | WEIGHT PER FOOT | SETTING DEPTH | QUANTITY OF CEMENT |
|--------------|----------------|-----------------|---------------|--|
| 12-1/4" | 8-5/8" (New) | 24# K-55 | 300' | 300 sx Class B Neat-circ |
| 7-7/8" | 4-1/2" (New) | 10.5# K-55 | 2693' | 525 sx CI B 50:50 POZ, 6% gel, 2# med tuf plug/sx, 0.8% FLA. Tail in with 100 sx Class B Neat-circ |

The above well is being drilled to develop the Dakota formation. Drilling fluid will be a low solids non-dispersed mud system. Completion will be based on open hole logs. Amoco's standard blowout prevention will be employed.

The gas from this well is dedicated to Southern Union Gas Company. Additional information required by NTL-6 for the application to drill and a Multi-Point Surface Use Plan are attached.

U. S. GEOLOGICAL SURVEY
DURANGO, COLO.

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout prevention program, if any.

21.

SIGNED

RA Deane

District Engineer

DATE September 10, 1960

(This space for Federal or State office use)

PERMIT NO.

APPROVED

DATE

APPROVED BY

SEP 30 1960

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY

DON C. JONES - ACTING DISTRICT
OIL & GAS SUPERVISOR

State

All distances must be from the outer boundaries of the Section.

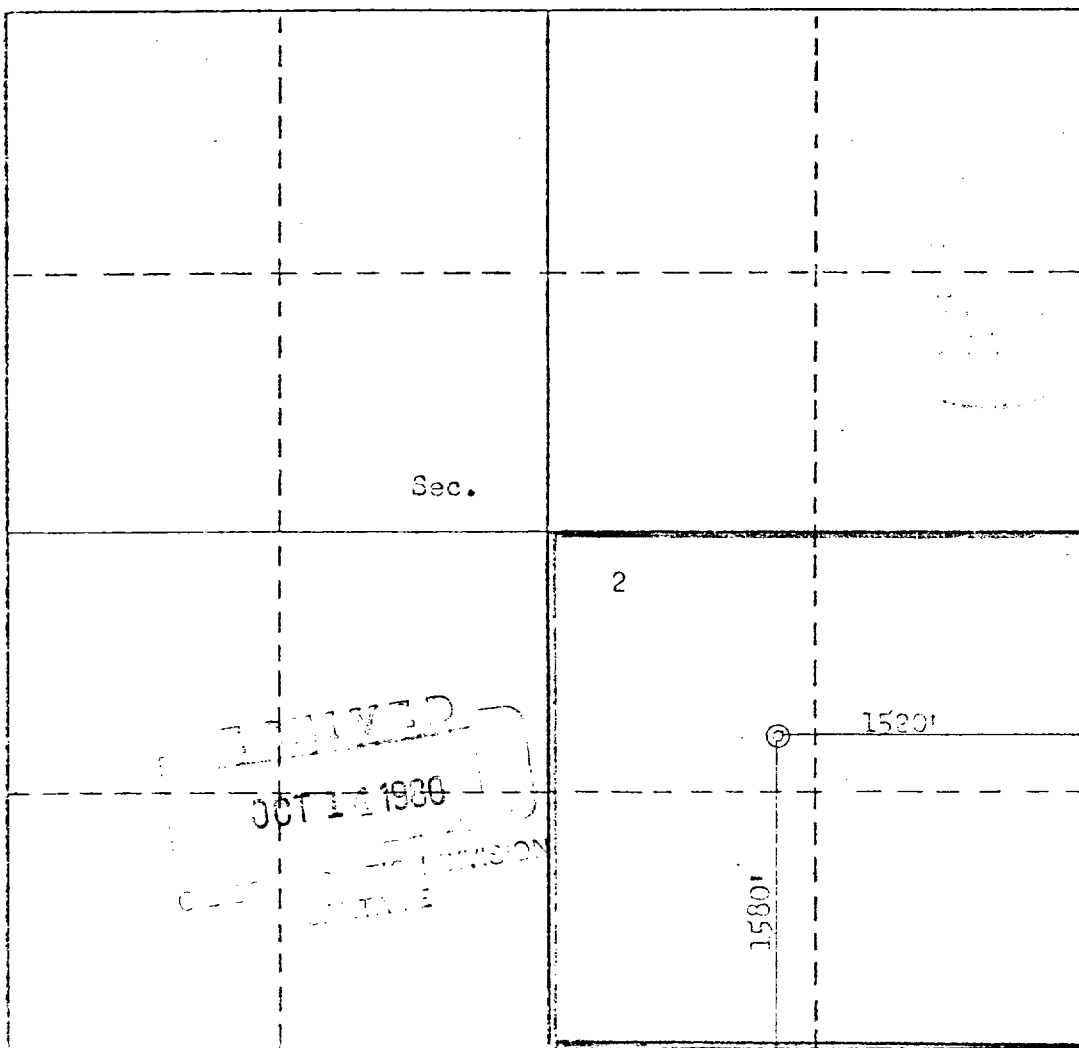
| | | | | | |
|---|--------------------------------------|----------------------------|---------------------------------|---------------------------|--|
| Operator AMOCO PRODUCTION COMPANY | | | Lease UTE INDIANS "A" | | Well No. 20 |
| Unit Letter J | Section 2 | Township 31N | Range 11W | County San Juan | |
| Actual Footage Location of Well: | | | | | |
| 1580 | | feet from the South | line and | 1520 | feet from the East |
| Ground Level Elev. 6230 | Producing Formation Dakota | | Pool Ute Dome Dakota | | Dedicated Acreage: 160 Acres |

1. Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below.
2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
3. If more than one lease of different ownership is dedicated to the well, have the interests of all owners been consolidated by communitization, unitization, force-pooling, etc?

☐ Yes ☐ No If answer is "yes," type of consolidation _____

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 (by communitization, unitization, forced-pooling, or otherwise) or until a non-standard unit, eliminating such interests, has been approved by the Commission.



CERTIFICATION

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

Robert A. Downey
Name

R.A. DOWNEY

Position

DISTRICT ENGINEER

Company

AMOCO PRODUCTION COMPANY

Date

JULY 7, 1980

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief.

Date Surveyed

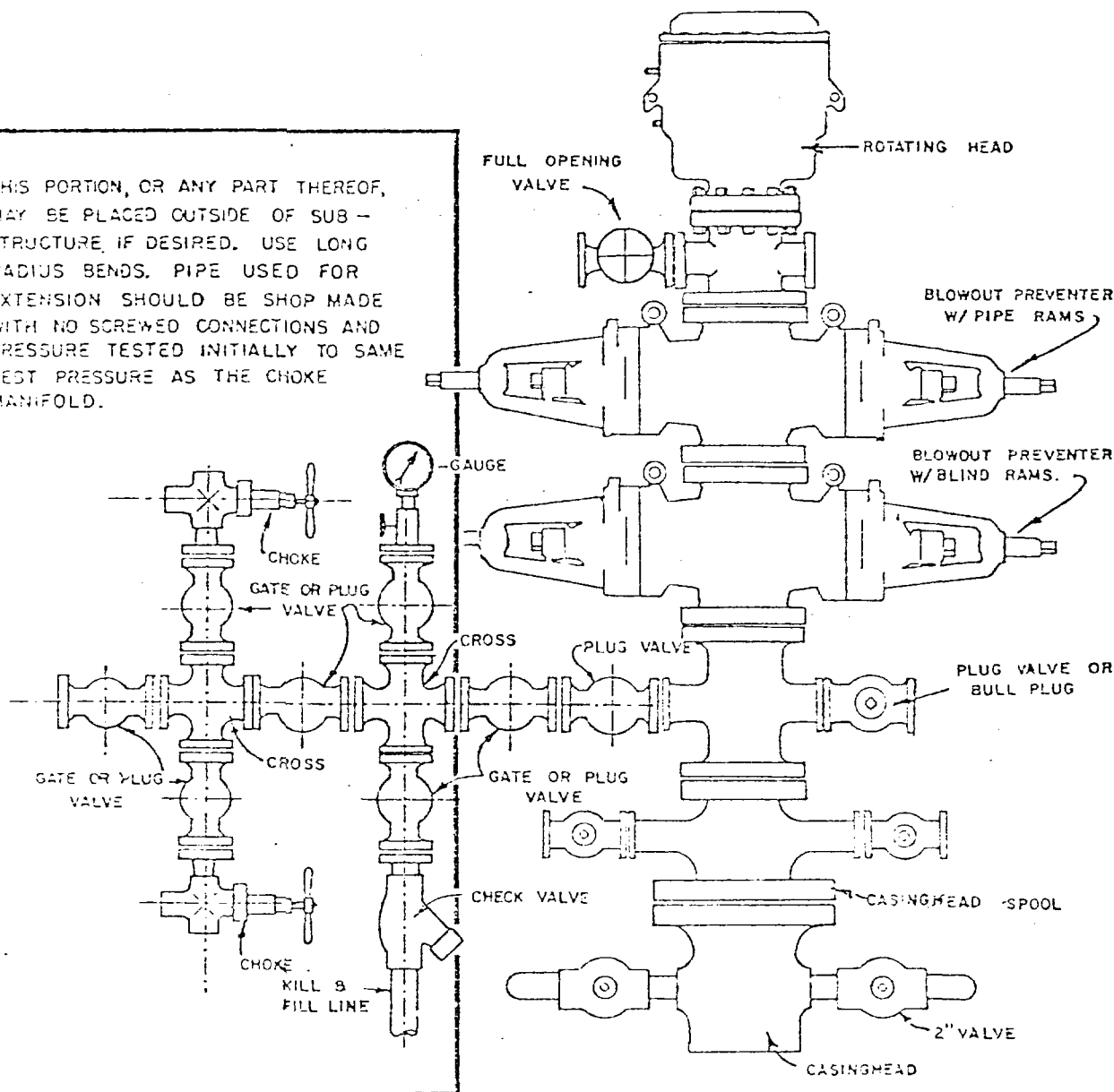
REGISTERED LAND SURVEYOR
Fred. B. Karr Jr.

Fred. B. Karr Jr.
Certified: F.B. KARR JR.

3950

1. Blowout Preventers and Master Valve to be fluid operated, and all fittings must be in good condition.
2. Equipment through which bit must pass shall be as large as the inside diameter of the casing that is being drilled through.
3. Nipple above Blowout Preventer shall be same size or larger than BOP being drilled through.
4. All fittings to be flanged.
5. Omsco or comparable safety valve must be available on rig floor at all times with proper connection or sub. The I.D. of safety valve should be as great as I.D. of tool joints of drill pipe, or at least as great as I.D. of drill collars.

THIS PORTION, OR ANY PART THEREOF, MAY BE PLACED OUTSIDE OF SUB-STRUCTURE, IF DESIRED. USE LONG RADIUS BENDS. PIPE USED FOR EXTENSION SHOULD BE SHOP MADE WITH NO SCREWED CONNECTIONS AND PRESSURE TESTED INITIALLY TO SAME TEST PRESSURE AS THE CHOKE MANIFOLD.



BLOWOUT PREVENTER HOOKUP

API Series # 900

EXHIBIT D-4

OCTOBER 16, 1969

Operation of BOP by closing both pipe and blind rams will be tested each trip or, on long bit runs, pipe rams will be closed once each 24 hours.

CMD :
OG6IPRD

ONGARD
INQUIRE PRODUCTION BY POOL/WELL

11/23/98 17:13:03
OGOIV -EMF3
Page No: 1

OGRID Identifier : 167067 CROSS TIMBERS OPERATING COMPANY

Pool Identifier : 86720 UTE DOME DAKOTA (GAS)

API Well No : 30 45 29417 Report Period - From : 01 1998 To : 12 1998

| API Well No | Property Name | Prodn. MM/YY | Days Prod | Production Volumes Gas | Oil | Water | Well Stat |
|-------------|---------------|--------------|-----------|------------------------|-----|-------|-----------|
| 30 45 29417 | UTE INDIANS A | 04 98 | 30 | 12377 | | | F |
| 30 45 29417 | UTE INDIANS A | 05 98 | 31 | 12221 | | | F |
| 30 45 29417 | UTE INDIANS A | 06 98 | 30 | 11556 | | | F |

Reporting Period Total (Gas, Oil) : 36154

M0025: Enter PF keys to scroll

| | | | | | |
|-----------|----------|-----------|--------------|-------------|--------------|
| PF01 HELP | PF02 | PF03 EXIT | PF04 GoTo | PF05 | PF06 CONFIRM |
| PF07 BKWD | PF08 FWD | PF09 | PF10 NXTPOOL | PF11 NXTOGD | PF12 |

CMD :
OG5SECT

ONGARD
INQUIRE LAND BY SECTION

11/23/98 17:12:45
OGOIV -EMF3
PAGE NO: 2

Sec : 02 Twp : 31N Rng : 14W Section Type : NORMAL

| | | | |
|-------------------------------------|--------------------------------|-------------------------------------|--------------------------------|
| L 40.00 Indian owned | K 40.00 Indian owned | J 40.00 Indian owned A | I 40.00 Indian owned |
| M 40.00 Indian owned A | N 40.00 Indian owned | O 40.00 Indian owned | P 40.00 Indian owned |

| | | | | | |
|-----------|----------|------------|-----------|------|------|
| PF01 HELP | PF02 | PF03 EXIT | PF04 GoTo | PF05 | PF06 |
| PF07 BKWD | PF08 FWD | PF09 PRINT | PF10 SDIV | PF11 | PF12 |

County San Juan Pool Ute Dome - Dakota

TOWNSHIP 31 North RANGE 14 West NEW MEXICO PRINCIPAL MERIDIAN

| | | | | | |
|----|----|----|----|----|----|
| 6 | 5 | 4 | 3 | 2 | 1 |
| 7 | 8 | 9 | 10 | 11 | 12 |
| 18 | 17 | 16 | 15 | 14 | 13 |
| 19 | 20 | 21 | 22 | 23 | 24 |
| 30 | 29 | 28 | 27 | 26 | 25 |
| 31 | 32 | 33 | 34 | 35 | 36 |

Description: All Sec. 1 & 2 (R-13, 3-15-50)

Ext: All Sec 10 & 11 (R-4690, 12-1-73)