

RELEASE 11.30.93
DHC



Amoco Production Company

Southern Rockies Business Unit
Amoco Building
1670 Broadway
Post Office Box 800
Denver, Colorado 80201
303-830-4040

November 4, 1993

Mr. William J. LeMay, Director
New Mexico Oil Conservation Division
310 Old Santa Fe Trail
Post Office Box 2088
Santa Fe, New Mexico 87504

File: CAW-297-986.511

Application for Exception to Rule 303-A
Downhole Commingling
Jicarilla A-2E Well
1120' FSL, 1520' FEL, Sec. 18, T26N-R5W
Basin Dakota and Tapacito Gallup Pools
Rio Arriba County, New Mexico

HOLD 17L
FURTHER NOTICE
PENDING
NSL.
12.15.93
(79)

Amoco Production Company hereby requests administrative approval to downhole commingle production from the Basin Dakota and Tapacito Gallup pools in the Jicarilla A-2E well referenced above. This will also require a location exception for the Tapacito Gallup pool which Amoco is filing under a separate application. The ownership (WI, RI, ORRI) of these two pools is identical in this wellbore. Production methods are limited due to the 4 1/2" casing in the well. Downhole commingling will offer an economical method of production while protecting against reservoir damage, waste of reserve and violation of correlative rights.

A copy of this application will be sent to the offset operators. If there are any questions concerning this matter, please contact me at (303) 830-5072.

Sincerely,

A handwritten signature in cursive script that reads "J. W. Hawkins".

J. W. Hawkins

Enclosures

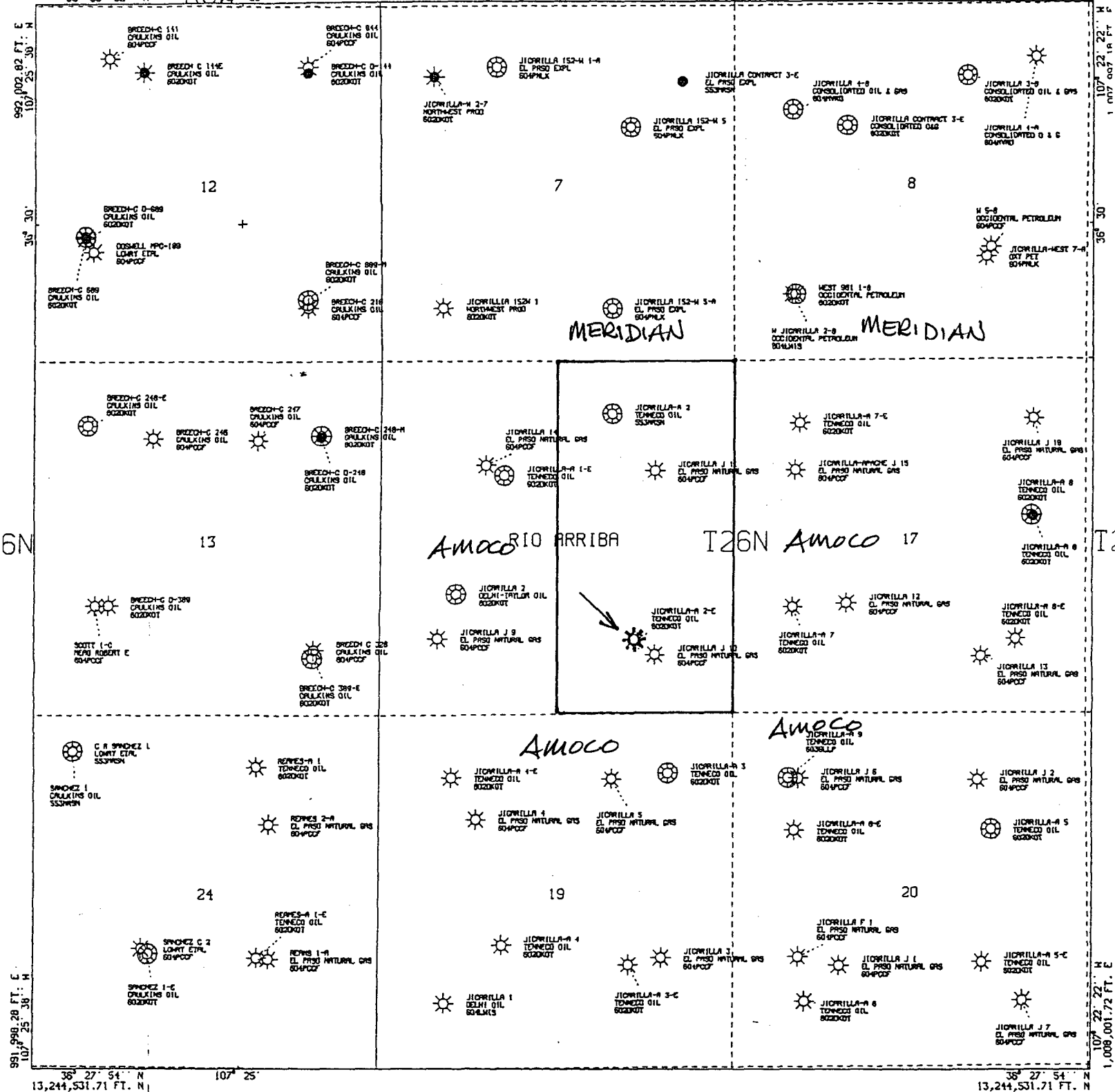
cc: Wayne Branam
Lara Kwartin

Frank Chavez, Supervisor
Amoco District III
1000 Rio Brazas Road
Aztec, NW 87410

Robert Kent
Bureau of Land Management
435 Montano NE
Albuquerque, NM 87107

Meridian Oil, Inc.
P. O. Box 4289
Farmington, NM 87499

13,260,586.70 FT. N
36° 30' 32" N



All geological and geophysical data, including the interpretation thereof, appearing on this map is the private and confidential property of Amoco Production Company. The publication or reproduction thereof without the written permission of said Company is strictly prohibited.



AMOCO PRODUCTION COMPANY
9 SECTION PLAT
AROUND JICARILLA A #2E
RIO ARRBIBA NM

SCALE 1 IN. = $\frac{2,000}{1,500}$ FT. AUG 17, 1993

POLYCONIC CENTRAL MERIDIAN - 107° 24' 0" W LONG
SPHEROID - 6

HORIZONTAL DATUM NAD27

Application for Exception to Rule 303-SEGREGATION OF PRODUCTION FROM POOLS

D. REQUIREMENTS

- (1) Name and address of the operator:

Amoco Production Company
P. O. Box 800
Denver, CO 80201

- (2) Lease name, well number, well location, name of the pools to be commingled:

Lease Name: Jicarilla/A/
Well Number: 2E
Well Location: 11200' FSL & 1520' FEL
Sec. 18, T26N-R5W
Rio Arriba County, New Mexico
Pools Commingled: Tapacito, Gallup
Basin Dakota

- (3) A plat of the area showing the acreage dedicated to the well and the ownership of all offsetting leases.

Attached (Attachment I)

- (4) A current (within 30 days) 24-hour productivity test on Division Form C-116 showing the amount of oil, gas and water produced from each zone.

Attached (Attachment II)

- (5) A production decline curve for both zones showing that for a period of at least one year a steady rate of decline has been established for each zone which will permit a reasonable allocation of the commingled production to each zone for statistical purposes. (This requirement may be dispensed with in the case of a newly completed or recently completed well which has little or no production history. However, a complete resume of the well's completion history including description of treating, testing, etc., of each zone, and a prognostication of future production from each zone shall be permitted.)

Dakota Completion: Historical production curve attached, well was shut-in since 1991.

(Attachment III)

Gallup Completion: New completion, no production history available, completion report attached.

(Attachment IV)

- (6) Estimated bottomhole pressure for each artificially lifted zone. A current (within 30 days) measured bottom hole pressure for each zone capable of flowing.

Dakota Completion:	BH Press.	SI Tub. Press.	Fluid Level
Jicarilla B-5E	3560 psi	1090 psi	193

Jicarilla B5-E is representative of the Dakota SIBHP in this area. Jicarilla A-2E well has no SI pressure data available due to casing leak. This leak has been repaired during the Gallup completion work.

Gallup Completion:	BH Press.	SI Tub. Press.	Fluid Level
Jicarilla A-5	1827 psi	445 psi	3749

This well is in Section 20 diagonally offset to the Jicarilla A-2E and has been shut-in for about 2 years. This is best estimate of SI BH Press. for the Gallup formation in this area.

- (7) A description of the fluid characteristics of each zone showing that the fluids will not be incompatible in the wellbore.

The fluids have no abnormal components that would prohibit commingling, or promote the creation of emulsions or scale (see attached produced gas and fluid analysis).

- (8) A computation showing that the value of the commingled production will not be less than the sum of the values of the individual streams.

<u>Dakota Production</u>		<u>Gallup Production</u>	
Oil, BOPD	3.6	Oil, BOPD	3.4
Gas, MCFD	88	Gas, MCFD	1196
Water, BWPD	0	Water, BWPD	3

The combined production from the Gallup-Dakota formations will be approximately 1284 MCFD/7 BOPD/3 BWPD. Since the BTU content and API gravities of the produced fluids are very similar, we would expect the commingled production to have the same value as the sum of the individual streams.

- (9) A formula for the allocation of production to each of the commingled zones and a description of the factors or data used in determining such formula:

Based on C-116 report:

	<u>Dakota</u>	<u>Gallup</u>
Gas -	$88/1284 = 7\%$	$1196/1284 = 93\%$
Oil -	$3.6/7 = 51\%$	$3.4/7 = 49\%$

- (10) A statement that all offset operators and, in the case of a well on federal land, the United States Bureau of Land Management, have been notified in writing of the proposed commingling.

All offsetting operators will receive a copy of this application by certified mail. The offsetting operator is: Meridian Oil Inc., P. O. Box 4289, Farmington, NM 87499.

DISTRICT I

P.O. Box 1980, Hobbs, NM 88240

DISTRICT II

P.O. Drawer DD, Artesia, NM 88210

DISTRICT III

1000 Rio Brazos Rd., Aztec, NM 87410

OIL CONSERVATION DIVISION

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

WELL LOCATION AND ACREAGE DEDICATION PLAT

All Distances must be from the outer boundaries of the section

Operator Amoco Production Company			Lease JICARILLA A		Well No. 2E
Unit Letter O	Section 18	Township 26N	Range 5W	County RIO ARRIBA	
Actual Footage Location of Well: 1120' feet from the FSL line and 1520 feet from the FEL line					
Ground level Elev. 6601GR	Producing Formation TAPACITO GALLUP		Pool TAPACITO GALLUP		Dedicated Acreage: 320 ACRE Acres

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

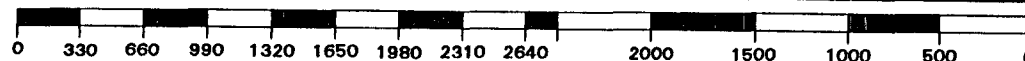
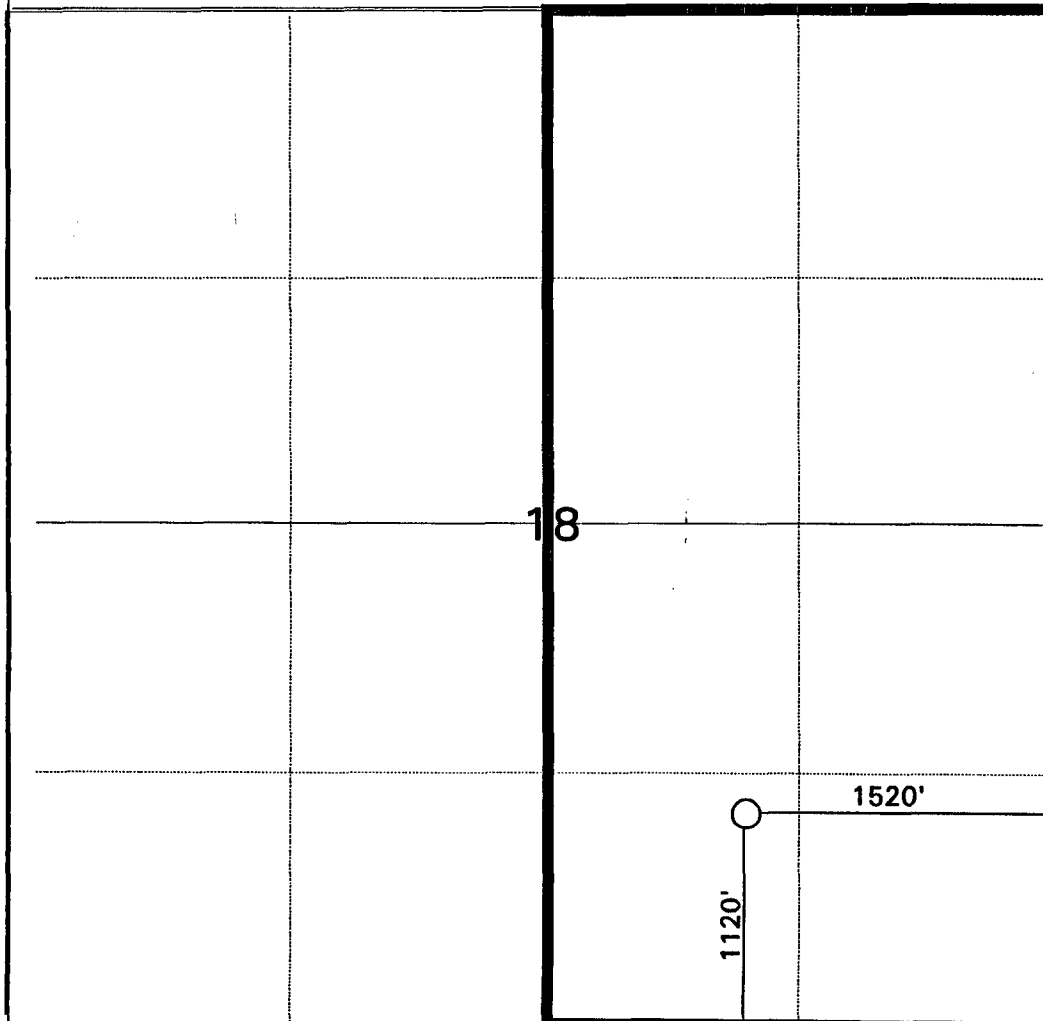
☐ Yes

☐ 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 Division.



OPERATOR CERTIFICATION

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

Signature

Printed Name

WAYNE BRANAM

Position

BUSINESS ANALYST

Company

Amoco Production Company

Date

110393

SURVEY 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 knowledge and belief.

Date Surveyed

Nov 18, 1980

Signature & Seal of
Professional Surveyor

ON FILE

Certificate No.

Submit 2 copies to Appropriate
District Office.
DISTRICT I
P.O. Box 1980, Hobbs, NM 88240
DISTRICT II
P.O. Drawer DD, Artesia, NM 88210
DISTRICT III
1000 Rio Brazos Rd., Aztec, NM 87410

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-116
Revised 1/1/89

OIL CONSERVATION DIVISION

P.O. Box 2088
Santa Fe, New Mexico 87504-2088

GAS - OIL RATIO TEST

Operator Amoco Production Company		Pod Tapacito Gallup		County Rio Arriba											
Address P. O. Box 800		TYPE OF TEST - (X)		Completion ☐ Scheduled ☐ Special ☒											
LEASE NAME	WELL NO.	LOCATION			DATE OF TEST	CHOKE SIZE	TBO. PRESS.	DAILY ALLOW- ABLE	LENGTH OF TEST HOURS	PROD. DURING TEST			GAS - OIL RATIO CU.FT/BBL.		
		U	S	T						R	WATER BBL.S.	GRAV. OIL		OIL BBL.S.	GAS MCF.
Jicarilla A	2E	0	18	26N	5W	091593	P None	221		24	3:1	65	3.43	1196	348,688
										Back Pressure 210 lb.					

Instructions:

During gas-oil ratio test, each well shall be produced at a rate not exceeding the top unit allowable for the pool in which well is located by more than 25 percent. Operator is encouraged to take advantage of this 25 percent tolerance in order that well can be assigned increased allowables when authorized by the Division.

Gas volumes must be reported in MCF measured at a pressure base of 15.025 psia and a temperature of 60° F. Specific gravity base will be 0.60.

Report casing pressure in lieu of tubing pressure for any well producing through casing.

(See Rule 301, Rule 1116 & appropriate pool rules.)

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

Wayne Branam
Signature

Wayne Branam, Business Analyst

Printed name and title

092093

(303) 830-4912

Date

Telephone No.

Submit 2 copies to appropriate

District Office.

DISTRICT

P.O. Box 1080, Hobbs, NM 88240

DISTRICT

P.O. Drawer DD, Artesia, NM 88210

DISTRICT

1000 Rio Brazos Rd., Aztec, NM 87410

State of New Mexico

Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

Form C-116

Revised 1/1/89

GAS - OIL RATIO TEST

Operator Amoco Production Company		Pool Basin Dakota		County Rio Arriba									
Address P.O. Box 800, Denver, CO 80201		TYPE OF TEST - (X)		Completion ☐ Scheduled ☒ Special ☒									
LEASE NAME Jicarilla A	WELL NO. 2E	LOCATION			DATE OF TEST 040191	CHOKE SIZE None	TBG. PRESS. 845	DAILY ALLOW. ABLE	LENGTH OF TEST HOURS 24	PROD. DURING TEST			GAS - OIL RATIO CU.FT/BBL 24,444
		U 0	S 18	T 26N						R 5W	WATER BBL'S. .02	GRAV. OIL 60	

Instructions:

During gas-oil ratio test, each well shall be produced at a rate not exceeding the top unit allowable for the pool in which well is located by more than 25 percent. Operator is encouraged to take advantage of this 25 percent tolerance in order that well can be assigned increased allowables when authorized by the Division.

Gas volumes must be reported in MCF measured at a pressure base of 15.025 psia and a temperature of 60° F. Specific gravity base will be 0.60.

Report casing pressure in lieu of tubing pressure for any well producing through casing.

(See Rule 301, Rule 1116 & appropriate pool rules.)

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

Wayne Brannam
Signature

Wayne Brannam, Business Analyst

Printed name and title

092093

Date

(303) 830-4912

Telephone No.

DISTRICT I
P.O.Box 1980, Hobbs, NM 88241-1980

DISTRICT II
P.O. Drawer DD, Artesia, NM 88211-0719

DISTRICT III
1000 Rio Brazos Rd, Aztec, NM 87410

State of New Mexico
Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION

P.O. Box 2088
Santa Fe, New Mexico 87504-2088

Form C-107
Revised 4-1-91

Filing Instructions
Bottom of Page

APPLICATION FOR MULTIPLE COMPLETION

Operator	Address		
Amoco Production Company, P.O. Box 800, Denver, CO 80201			
Lease	Well No.	Unit Ltr. - Sec - Twp - Rge	County
Jicarilla A	2E	O 18 T26N R5W	Rio Arriba

All applicants for multiple completion must complete Items 1 and 2 below.

1. The following facts are submitted:	Upper Zone	Intermediate Zone	Lower Zone
a. Name of Pool and Formation	Tapacito Gallup		Basin Dakota
b. Top and Bottom of Pay Section (Perforations)	6780-6800		7288-7520
c. Type of production (Oil or Gas)	oil GAS		Gas
d. Method of Production (Flowing or Artificial Lift)	Flowing		Flowing
e. Daily Production ☒ Actual ☐ Estimated Oil Bbbls. Gas MCF Water Bbbls.	3.43 BOPD 1196 MCFD 3.1 BWPD		3.6 BOPD 88 MCFD .02 BWPD

2. The following must be attached:
- Diagrammatic Sketch of the Multiple Completion, showing all casing strings, including diameters and setting depths, centralizers and/or turbolizers and location thereof, quantities used and top of cement, perforated intervals, tubing strings, including diameters and setting depth, location and type of packers and side door chokes, and such other information as may be pertinent.
 - Plat showing the location of all wells on applicant's lease, all offset wells on offset leases, and the names and addresses of operators of all leases offsetting applicant's lease.
 - Electrical log of the well or other acceptable log with tops and bottoms of producing zones and intervals of perforation indicated thereon. (If such log is not available at the time application is filed it shall be submitted as provided by Rule 112-A.)

OPERATOR:

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

Signature Wayne Branam
Printed Name & Title Wayne Branam, Bus. Analyst

Date 092093 Telephone (303) 830-4912

OIL CONSERVATION DIVISION

Approved by: _____

Title: _____

Date: _____

NOTE: If the proposed multiple completion will result in an unorthodox well location and/or a non-standard proration unit in one or more of the producing zones, then separate application for approval of the same should be filed simultaneously with this application.

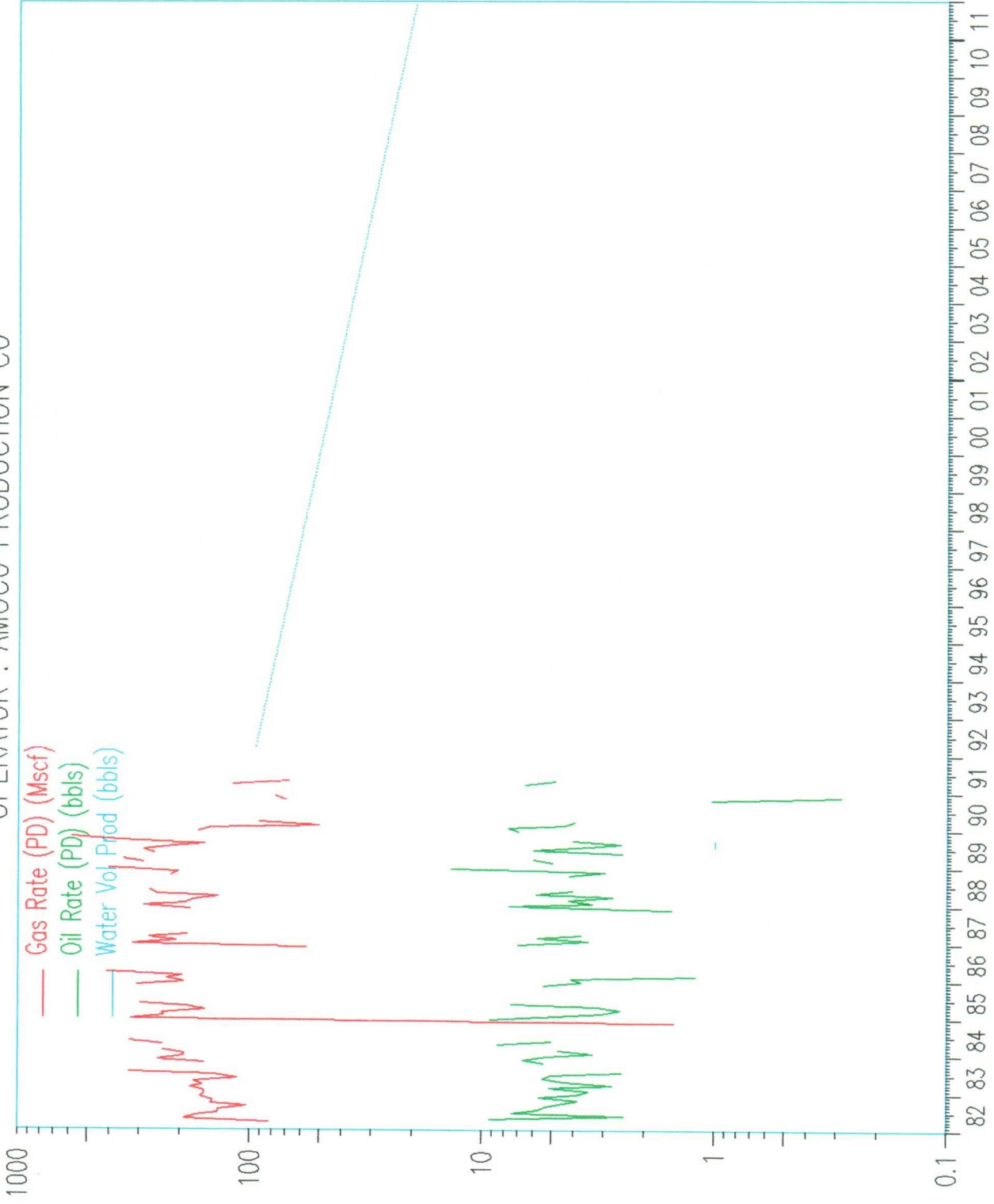
FILING INSTRUCTIONS:

- District Approval -- See rule 112-A-B -- Submit 4 copies of Form C-107 with attachments to appropriate district office.
- Division Director Administrative Approval -- See Rule 112-C -- Submit 2 copies of Form C-107 with attachments to Division office in Santa Fe and 2 copies of Form C-107 with attachments to appropriate district office.
- Multiple completions not qualifying for District or Division Director approval may be set for hearing as outlined in Rule 112-A-E.

JICARILLA A 2E

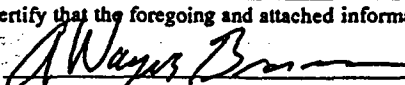
WELL: 300392258100:DK

OPERATOR : AMOCO PRODUCTION CO



UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT(See other in-
structions on
reverse side)FOR APPROVED
OMB NO. 1004-0137
Expires: December 31, 1991

WELL COMPLETION OR RECOMPLETION REPORT AND LOG*

1a. TYPE OF WELL: OIL WELL ☒ GAS WELL ☐ DRY ☐ OTHER ☐						5. LEASE DESIGNATION AND SERIAL NO. CONTRACT 110	
b. TYPE OF COMPLETION: NEW WELL ☐ WORK OVER ☐ DEEP-EN ☐ PLUG BACK ☐ DIFF. RESVR. ☒ OTHER ☐ RECOMPLETION						6. IF INDIAN, ALLOTTEE OR TRIBE NAME JICARILLA	
2. NAME OF OPERATOR Amoco Production Company						7. UNIT AGREEMENT NAME	
3. ADDRESS AND TELEPHONE NO. P.O. Box 800, Denver, Colorado 80201 (303) 830-4912						8. FARM OR LEASE NAME, WELL NO. JICARILLA A 2E	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)* At surface 1120' FSL 1520' FEL UNIT O At top prod. interval reported below At total depth						9. API WELL NO. 3003922581	
14. PERMIT NO.				DATE ISSUED		12. COUNTY OR PARISH RIO ARRIBA	
15. DATE SPUDDED 08/15/81				16. DATE T.D. REACHED 08/31/81		13. STATE NM	
17. DATE COMPL. (Ready to prod.) 09/01/93				18. ELEVATIONS (DF, RKB, RT, GR, ETC.)* 6601GR		19. ELEV. CASINGHEAD	
20. TOTAL DEPTH, MD & TVD 7567'		21. PLUG, BACK T.D., MD & TVD 7548'		22. IF MULTIPLE COMPL., HOW MANY* 1		23. INTERVALS DRILLED BY ROTARY TOOLS YES CABLE TOOLS NO	
24. PRODUCING INTERVAL(S), OF THIS COMPLETION - TOP, BOTTOM, NAME (MD AND TVD)* 6780-6800 GALLUP						25. WAS DIRECTIONAL SURVEY MADE NO	
26. TYPE ELECTRIC AND OTHER LOGS RUN						27. WAS WELL CORED N	
28. CASING RECORD (Report all strings set in well)							
CASING SIZE/GRADE		WEIGHT, LB./FT.		DEPTH SET (MD)		HOLE SIZE	
9 5/8"		36#		325'		12 1/4"	
4 1/2"		10.5#		7567'		7 7/8"	
						260S X CL-B	
						1041 SX D-79	
						200 SX C1-B	
29. LINER RECORD							
SIZE		TOP (MD)		BOTTOM (MD)		SACKS CEMENT*	
30. TUBING RECORD							
SIZE		TOP (MD)		BOTTOM (MD)		PACKER SET (MD)	
2 3/8"						6807'	
31. PERFORATION RECORD (Interval, size and number) SEE ATTACHED				32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.			
				DEPTH INTERVAL (MD)		AMOUNT AND KIND OF MATERIAL USED	
				6780' 6800'		SEE ATTACHED	
33.* PRODUCTION							
DATE FIRST PRODUCTION 09 15 1993		PRODUCTION METHOD (Flowing, gas lift, pumping - size and type of pump) FLOWING				WELL STATUS (Producing or shut-in) SI W/O PIPELINE	
DATE OF TEST 09 15 1993		HOURS TESTED 24		CHOKE SIZE		PROD'N FOR TEST PERIOD	
FLOW TUBING PRESS 221		CASING PRESSURE 411		CALCULATED 24-HOUR RATE		OIL - BBL. 3.43	
						GAS - MCF. 1196	
						WATER - BBL. 3.1	
						GAS-OIL RATIO 348,688	
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		BUSINESS ANALYST		DATE 09-20-1993	

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

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

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 37.

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), bottom(s) and name(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: "Stacks 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.)

37. SUMMARY OF PIOUS ZONES:

SHOW ALL IMPORTANT ZONES OF POROSITY AND CONTENTS THEREOF; CORED INTERVALS; AND ALL DRILL-STEM TESTS, INCLUDING DRIFT INTERVAL, TESTED, CUSHION TEST, TIME TOOL, OPEN, FLOWING AND SHUT-IN PRESSURES, AND RECOVERY

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.	NAME	MEAN DEPTH	TRUE VERT. DEPTH
OJO Alamo	1775'	3095'	Water	Greenhorn	7225	
Pictured Cliffs	3095	3175	Water			
Lewis	3175	4805	Shale			
Mesaverde	4805	5500	Sand, shale			
Mancos	5500	7225	Shale			
Dakota	7325	TD	Sand, Gas			

38.

GEOLOGIC MARKERS

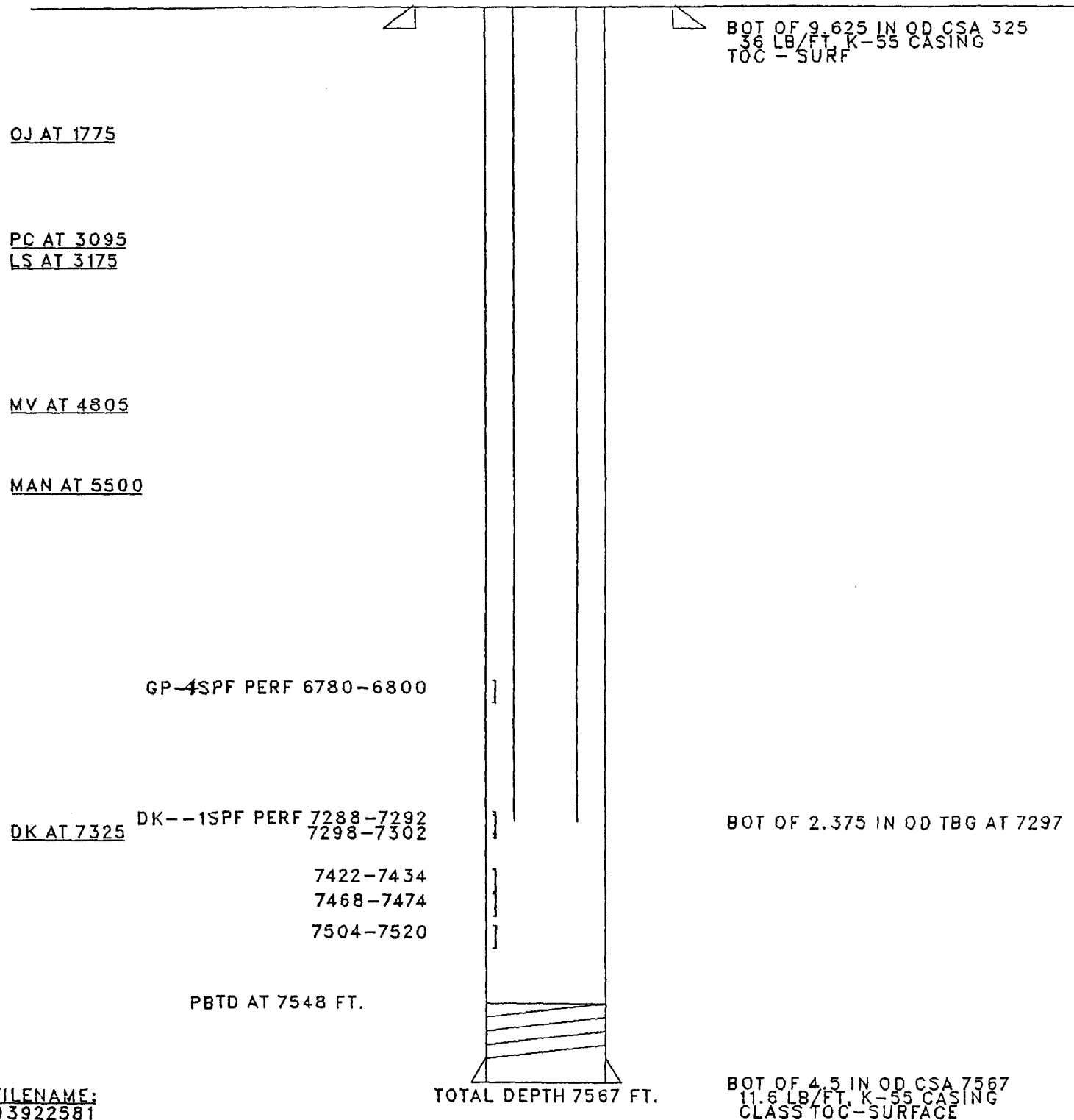
081893 MIRUSU, TAKE PRESSURES, TBG AND CSG WERE DEAD, NDWH, NUBOP, TIH W/7 JTS TBG DID NOT TAG FILL, TOH, TIH W/SCRAPPER TAG AT 7557 W/9' FILL, TOH, TIH W/RBP & PKR TO 7200', SET RBP & PRESS TEST, DID NOT TEST, MOVE RBP UPHOLE 30' RESET & RETEST, TEST TO 1000#, HELD, BLED OFF & RETEST, DID NOT HOLD, TIH LATCH ONTO RBP, TOH, SET RBP AT 7061', TEST TO 1000#, HELD, TOH TO 6624', TEST CSG TO 3500#, HELD, TOH W/PKR LOOKING FOR LEAK, CSG LEAKS FOUND 2580' TO 2107', TOH, PMP 8 BBLS KCL WATER TO LOAD HOLE, MIX & PMP 22BBLS CMT/.8%HALAD-322/.5% CAL SEAL SPOT OVER LEAKS, DISP W/3 BBLS 2% KCL, TOH, LOAD HOLE W/4.75 BBLS KCL WATER, SQZ W/11 BBLS AT 600#, WAIT 45 MIN, SQZ W/2 BBLS CMT AT 240#, WAIT 30 MIN, SQZ W/.25 BBL. SI, TIH W/ BIT & SCRAPER, TAG TOC AT 2147', DRL CMT TO 2651', CIRC CLEAN, PRESS TEST TO 500#, HELD, TOH, TIH W/TBG TO 6800', SWAB TO 6000+, TOH,

TIH PERF THE GALLUP INTERVAL W/4 JSPF 12G CHARGE FROM 6780' TO 6800', NO INITIAL PRESS RESPONSE WAS SEEN AFTER PERFING, TIH W/ FRAC STRING, SET PKR AT 6633' AND PRESS TEST TO 6500#, HELD, FISH STD VALVE,

FRAC WELL W/ 56,000 GALLONS OF 70 QUALITY NITROGRN FOAM AND 110,000 LBS 20/40 BRADY SAND DOWN THE CSG AT 15 BPM, AND WHTP = 3050 PSI, DISPLACE W/ BASE GEL

SI AND RIG UP FLOWLINE, OPEN WELL AT 6:30 PM, TBG 890# FLOWING THRU .25" CHOKE, .REL PKR, KILL WELL W/80 BBLS KCL WATER, TOH, TIH W/ PRD TBG, TAG SAND AT 6776', TOH 3 STDS, TAKE PRESS READINGS CSG480# TBG 480#, CO SAND FROM 6776' TO 6932', TOT OF 156' OF SAND, W/127,000SCF N2, TOH, LAND PRD TBG AT 6807', PMP 5 BBLS KCL KILL WELL, NDBOP, NUWH, RDSU 090193, CO CMT FROM PIT. TEST GALLUP TBG 90# CSG 400#, MADE SEVERAL ATTEMPTS TO KICK OFF WELL, TBG BLEW DN TO 0# IN 5 MIN, CSG MAINTAINED 400#, WOULD NOT UNLOAD, BLEW 2 HRS, CSG PRESS BUILT A LITTLE. TBG PRESS 68# CSG 450#, TURNED WELL ON, BLEWDOWN TO 0#, 2ND ATTEMPT 2 HRS LATER, BLEW DOWN TO 0#, WILL NOT UNLOAD & FLOW. TBG 75# CSG 455#, TBG BLEW DOWN IN 5 MIN, BLEW WELL FOR 3 HRS, WOULD NOT UNLOAD. TBG 160# CSG 480#, BLEW WELL 2 HRS, WELL STARTED TO COME AROUND, SI FOR 15 MIN, TURNED INTO TEST SEP W/150# BACK PRESS, FLOWING TBG 175#, CSG 425#. TBG 162# CSG 425# FLOWING 706 MCFD. TBG 165# XSG 420# FLOWING 743 MCFD. TBG 200# CSG 440# 798 MCFD.

JICARILLA A 002E
Location - 180- 26N- 5W
SINGLE dk
Orig.Completion - 10/81
LAST FILE UPDATE - 9/93 BY CSW



SQZ'D LEAKS @2580-2107 W/22 BBLS CMT

To: JAKE

1115 FARMINGTON AVE. - FARMINGTON, NM 87401

(505) 325-6622

ANALYSIS NO. AMO30329

WELL/LEASE INFORMATION

COMPANY: AMOCO PRODUCTION COMPANY PRESSURE: 200 PSIG
 WELL NAME: JICARILLA A-2E SAMPLE TEMP.: DEG. F
 LOCATION: DATE SAMPLED: 9/14/93
 FORMATION: GALLUP SAMPLE SRC: METER TUBE
 COUNTY: RIO ARriba, NM SAMPLED BY: DICK THOMPSON
 STATION NO.: PROD FOREMAN: JAKE NUNEZ
 REMARKS: TEST WELL

ANALYSIS

COMPONENT	MOLE %	GPM**	B.T.U.*	SP. GR.*
NITROGEN	1.141	0.0000	0.00	0.0110
CO2	0.616	0.0000	0.00	0.0094
METHANE	76.851	0.0000	777.95	0.4257
ETHANE	12.444	3.3954	220.72	0.1292
PROPANE	5.352	1.5045	134.97	0.0816
I-BUTANE	0.682	0.2275	22.22	0.0137
N-BUTANE	1.615	0.5195	52.82	0.0324
I-PENTANE	0.473	0.1766	18.97	0.0118
N-PENTANE	0.439	0.1624	17.66	0.0109
HEXANE	0.387	0.1724	19.92	0.0125
TOTAL	100.000	6.1583	1265.23	0.7381

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

** @ 15.025 & 60 DEG. F

COMPRESSIBILITY FACTOR (1/Z) 1.0038

BTU/CU.FT. (DRY) CORRECTED FOR (1/Z) 1295.5

BTU/CU.FT. (WET) CORRECTED FOR (1/Z) 1272.9

REAL SPECIFIC GRAVITY 0.7405

ANALYSIS RUN AT 15.025 PSIA & 60 DEGREES F

CYLINDER PRESSURE: 194 PSIG

CYLINDER NO.: RC3224

DATE RUN: 9/15/93

ANALYST: JIM BY. CURTIS QUERTIN

HALLIBURTON DISTRICT LABORATORY

WATER ANALYSIS DATA SHEET

to: 9-15-93

Report No. _____

MOCO PRODUCTIONY JAKE Date Received 9-15-93JICARILLA A #2E - GP

Formation _____

Data For ReportSpecific Gravity 1.004pH 6.80

Ion	Calculation	ppm
Fe Log		15
K %T		300
Na %T		935
Ca		47
Mg		28
Cl		1343
SO4 Log		<10
CO3		
HCO3		952
TDS		3620

RW 3.71 @ 65.5°F

Notice

on sound engineering practices, but because of variable well conditions and other information which must be relied upon, Halliburton
warranty, express or implied, as to the accuracy of the data or of any calculations or opinions expressed herein. You agree that Halliburton
any loss or damage whether due to negligence or otherwise arising out of or in connection with such data, calculations or opinions.

AUG 18 '93 14:45

ID:5056324234

GAS CO OF N.M.

109231

DK

GAS ANALYSIS INFORMATION (GAIL)

Meter Name: JICARILLA A		E002	
Effective Gas Date:	08/30/90	Mol %	
Analyzed By:		CO2	1.0360
Analyzed Date:		N2	0.6160
		Methane	0.0000
Sampled By:		Ethane	0.0000
Sampled Date:		Propane	0.0000
		I-butane	0.0000
Sample Gravity:	0.6860	N-butane	0.0000
		I-pentane	0.0000
BTU Pressure Base:	14.730	N-pentane	0.0000
Dry BTU:	1183.0000	Hexanes (C6+)	0.0000
Wey BTU:	0.0000	TOTALS:	1.6520
Remark:			
		Revised by	on ??/??

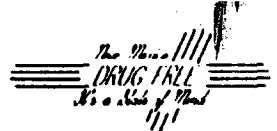
CARRY OVER
TO
MIPS

same



STATE OF NEW MEXICO

ENERGY, MINERALS and NATURAL RESOURCES DIVISION
OIL CONSERVATION DIVISION
RECEIVED
OIL CONSERVATION DIVISION
AZTEC DISTRICT OFFICE



BRUCE KING '93 DEC 20 AM 9 49
GOVERNOR

ANITA LOCKWOOD
CABINET SECRETARY

1000 RIO BRAZOS ROAD
AZTEC, NEW MEXICO 87410
(505) 334-6170

Date: 12/17/93

DHC-999

Oil Conservation Division
P.O. Box 2088
Santa Fe, NM 87504-2088

RE: Proposed MC _____
Proposed NSL _____
Proposed WFX _____
Proposed NSP _____

Proposed DHC ✓ _____
Proposed SWD _____
Proposed PMX _____
Proposed DD _____

Gentlemen:

I have examined the application received on Nov. 15, 93
for the Amow OPERATOR Juanilla A #2E LEASE & WELL NO.

0-18-26N-SW and my recommendations are as follows:
UL-S-T-R

Approve

Yours truly,

J. S. 8