



Texaco

TEXACO INC.
P. O. Box EE
Cortez, Co. 81321

July 16, 1986

Energy Reserves Group
Production Department
P. O. Box 1407
633 17th St. Suite 3200
Denver, Co. 80201

Subject: Downhole commingling Jicarilla "C" well no 28
B Sec. 34 T25N R5W
Rio Arriba County, NM.

Gentlemen:

Please find attached copies of our application for downhole commingling which we are submitting to the New Mexico Oil & Gas Conservation Commission.

If you as an offset operator, have no objections to the downhole commingling of the Gallup and Dakota formations of this well, please sign the waiver at the bottom of this page and send to:

New Mexico Oil & Gas Conservation
P. O. Box 2088
Santa Fe, NM. 87501

We would appreciate your returning one executed copy to the undersigned.

Very Truly Yours,
Texaco Inc.

RECEIVED

JUL 24 '86

ROCKY MOUNTAIN
REGION

A. R. Marx
A. R. Marx
Area Superintendent

ARM:DDW:nr
Attachments

WAIVER

We hereby waive any objections to Texaco Inc. application for downhole commingling as set forth above.

NAME *[Signature]*

DATE 7-28-86



Texaco



MRI MKG
JTM gm
KAS 8/4

7/16/86

TEXACO INC.
P. O. Box EE
Cortez, Co. 81321

July 16, 1986



Amoco Production Company ✓
Production Department
1670 Broadway
Denver, Co. 80202

Subject: Downhole commingling Jicarilla "C" well no. 28
B Sec. 34 T25N R5W
Rio Arriba County, NM.

Gentlemen:

Please find attached copies of our application for downhole commingling which we are submitting to the New Mexico Oil & Gas Conservation Commission.

If you as an offset operator, have no objections to the downhole commingling of the Gallup and Dakota formations of this well, please sign the waiver at the bottom of this page and send to:

New Mexico Oil & Gas Conservation
P. O. Box 2088
Santa Fe, NM. 87501

We would appreciate your returning one executed copy to the undersigned.

Very Truly Yours,
Texaco Inc.

A. R. Marx

A. R. Marx
Area Superintendent

ARM:DDW:nr
Attachments

WAIVER

We hereby waive any objections to Texaco Inc. application for downhole commingling as set forth above.

NAME

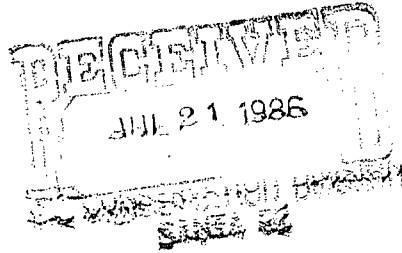
DG Wright

DATE

8-6-86



Texaco



TEXACO INC.
P. O. Box EE
Cortez, Co. 81321

July 16, 1986

New Mexico Oil & Gas
Conservation Commission
P. O. Box 2088
Santa Fe, NM. 87501

Subject: Application of downhole commingling.

Dear Sirs:

Texaco Inc. as owner and operator of Jicarilla "C" well no. 28 request approval to downhole commingle production from the dually completed Basin Dakota and Otero Gallup pools. The subject well is located at the NW $\frac{1}{4}$ NE $\frac{1}{4}$ of Section 34, Township 25N, Range 5W, Rio Arriba County, New Mexico. Down hole commingling of the Dakota and Gallup production is proposed to eliminate the hardship of producing the Dakota production separately thereby resulting in the recovery of additional hydrocarbons and preventing waste.

Production from the Dakota has been severely declining. It has been suffering from liquid loading and logging-off. Also the oil production from the Dakota has severe paraffin forming tendencies. When subjected to an extended shut-in, paraffin will form in the tubing. Both swabbing and hot oiling have resulted in expensive service jobs. The Dakota is produced under a packer and does not have the annular volume to store enough potential energy to effectively unload the well. By downhole commingling, the Dakota and Gallup formations will be able to work together to build the annular potential energy required to unload all produced liquids.

Presently 2 BOPD/63 MCFPD/1 BWPD is produced from the Dakota into a 250 psi. sales line and 4 BOPD/40 MCFPD/0 BWPD is produced from the Gallup into a 50 psi. line to a central compressor. Both formations are produced with plunger-lift equipment through separate tubing strings isolated by a packer. After the two formations are commingled, El Paso Natural Gas Company (gas purchaser) will allow the Dakota and Gallup to produce into the 50 psi. line to the central compressor.

Attachments 1 & 2 show the estimated bottom hole pressure for each zone, a description of the fluid characteristics of each zone and a computation showing the value of the commingled oil production. As shown the estimated bottom hole pressures are within 3% of each other, thereby minimizing the concern that one formation might thief the other.



Texaco

New Mexico Oil & Gas
Conservation Commission

The scale index on the Dakota water analysis indicates calcium carbonate and calcium sulfate scaling are unlikely. And finally, due to a gravity adjustment the value of the commingled oil production will be greater than the sum of the values of the individual streams.

All offset operators have been notified in writing of the proposed commingling. Texaco Inc. appreciates your attention to this matter of commingling and if you have any questions please contact the Area Office in Cortez, Colorado 303-565-8401.

Thank You,

A. R. Marx
Area Superintendent

ARM:DDW:nr
Attachments
cc: Supron
Energy Reserves Group
Amoco Prod. Co.
Amerada Hess Corp.

DATE 7/11/86

LOCATION _____

EST. NO. _____

BY DDW

SUBJECT _____

C.K'D _____

APP'D _____

Attachment 1- Estimated Bottom Hole PressureGallup

4/86

5 day SI

644 PSI

6490' To Mid Perf

.7 Specific Gravity

Est. BHP = 753 PSI = 644 Exp. (.00039) x .7 x 6490'Dakota

8/85

7 day SI

695 PSI

7255' To Mid Perf

.7 Specific Gravity

Est. BHP = 769 PSI = 695 Exp. (.00039) x .7 x 7255'- Value of Commingled Oil ProductionDakota

2.4 BOPD

46.2° API

Value = 2.4 BOPD (\$12.75/Bo - \$18/Bo) = \$30.17Permian Oil Co.
Purchasing PriceGravity Adj. For 12
Tenths of a Degree Above 45° APIGallup

4 BOPD

41.6° API

Value = 4 BOPD (\$12.75/Bo) = \$51.00Dakota / Gallup Commingled° API = $\frac{2.4 \text{ BOPD } (46.2^\circ) + 4 \text{ BOPD } (41.6^\circ)}{6.4 \text{ BOPD}}$ = 43.3°

(43.3° < 45° ∴ No Gravity Adj.)

Value = 6.4 BOPD (\$12.75/Bo) = \$81.60\$81.60 > \$30.17 + \$51.00

Attachment 2

UNICHEM INTERNATIONAL

707 NORTH LEECH

P.O. BOX 1499

HOBBS, NEW MEXICO 88240

COMPANY : TEXACO INC.

DATE : 06/19/86

FIELD, LEASE & WELL : JICARILLA C-28 DAKOTA

SAMPLING POINT : SEPARATOR

DATE SAMPLED : 06/10/86

SPECIFIC GRAVITY = 1.009

TOTAL DISSOLVED SOLIDS = 16300

PH = 6.86

		ME/L	MG/L
CATIONS			
CALCIUM	(CA)+2	.08	1.6
MAGNESIUM	(MG)+2	6.3	76.8
SODIUM	(NA), CALC.	261.	6016.

		ME/L	MG/L
ANIONS			
BICARBONATE	(HCO3)-1	14	354.
CARBONATE	(CO3)-2	0	0
HYDROXIDE	(OH)-1	0	0
SULFATE	(SO4)-2	28.1	1350
CHLORIDES	(CL)-1	226	3000

		ME/L	MG/L
DISSOLVED GASES			
CARBON DIOXIDE	(CO2)	NOT RUN	
HYDROGEN SULFIDE	(H2S)	NOT RUN	
OXYGEN	(O2)	NOT RUN	

IRON(TOTAL)	(FE)		507.
BARIUM	(BA)+2	.01	.7
MANGANESE	(MN)	NOT RUN	

IONIC STRENGTH (MOLAL) = .289

SCALING INDEX	TEMP
	30C 48.8C
	86F 120F
CARBONATE INDEX	-2.3 -1.9
CALCIUM CARBONATE SCALING	UNLIKELY UNLIKELY
CALCIUM SULFATE INDEX	-37. -37.
CALCIUM SULFATE SCALING	UNLIKELY UNLIKELY

LOCATION

Ticorilla "C" # 28

EST. NO.

DATE

7/10/86

BY

DDW

SUBJECT

Wellbore Diagram

C.K'D

APP'D

12 1/4" Hole
8 5/8" 24# CSG
set @ 322'

2 1/16" Tubing
set @ 7249'
w/ Packer @ 6675'
Model "F"

2 1/16" Tubing
set @ 6484'

GL Perfs 1 JSFC

6277-80', 6322-28', 6287-95', 6346-65',
6385-91', 6369-71', 6448-84', 6560-602'

DK Perfs 1 JSFC

7165-73', 7276-83', 7290-93',
7311-26', 7341-44'

7 7/8" Hole
5 1/2" 14 & 15.5# CSG
set @ 7433'

P.B.T.D. 7394'

**NEW MEXICO OIL CONSERVATION COMMISSION
GAS-OIL RATIO TESTS**

C-116
Revised 1-1-65

Operator TEXACO PROD. INC.		Pool OTERO GALLUP		County RIO ARriba													
Address P. O. BOX EE CORTEZ, CO. 81321				Type of Test - (X) <input checked="" type="checkbox"/> Scheduled <input type="checkbox"/> Special <input type="checkbox"/>													
LEASE NAME Jicarilla "C"	WELL NO. 28	LOCATION U S T R			DATE OF TEST 6/12/86	STATUS F	CHOKE SIZE 1	TBG. PRESS. 97	DAILY ALLOW-ABLE 4	LENGTH OF TEST HOURS 24	Completion <input type="checkbox"/> Special <input type="checkbox"/>						
		<table border="1"> <tr> <th colspan="4">PROD. DURING TEST</th> <th rowspan="2">GAS - OIL RATIO CU. FT./BBL.</th> </tr> <tr> <th>WATER BBLs.</th> <th>GRAV. OIL BBLs.</th> <th>OIL BBLs.</th> <th>GAS M.C.F.</th> </tr> <tr> <td>0</td> <td>41</td> <td>4</td> <td>40</td> <td>10,000</td> </tr> </table>									PROD. DURING TEST				GAS - OIL RATIO CU. FT./BBL.	WATER BBLs.	GRAV. OIL BBLs.
PROD. DURING TEST				GAS - OIL RATIO CU. FT./BBL.													
WATER BBLs.	GRAV. OIL BBLs.	OIL BBLs.	GAS M.C.F.														
0	41	4	40	10,000													

No well will be assigned an allowable greater than the amount of oil produced on the official test.

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 Commission.

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.

Mail original and one copy of this report to the district office of the New Mexico Oil Conservation Commission in accordance with Rule 301 and appropriate pool rules.

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

(Signature)
Area Superintendent

(Title)

(Date)

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 Getty Oil Company					
3. ADDRESS OF OPERATOR P.O. Box 3360, Casper, WY 82602					
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)* At surface 790' FNL & 1650' FEL At top prod. interval reported below Same At total depth Same					
14. PERMIT NO. _____ DATE ISSUED 4-14-81					
15. DATE SPUDDED 4-19-81		16. DATE T.D. REACHED 5-9-81		17. DATE COMPL. (Ready to prod.) 7-29-81	
18. ELEVATIONS (DF, REB, RT, GR, ETC.)* 6874' GL		19. ELEV. CASINGHEAD --			
20. TOTAL DEPTH, MD & TVD 7435'		21. PLUG, BACK T.D., MD & TVD 7394'		22. IF MULTIPLE COMPL., HOW MANY* 2	
23. INTERVALS DRILLED BY --		24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)* 7165'-7344' Dakota		25. WAS DIRECTIONAL SURVEY MADE Yes	
26. TYPE ELECTRIC AND OTHER LOGS RUN DIL and CNL/FDC					
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#	322'	12 1/4"	300 sx.	--
5 1/2"	14 & 15.5#	7433'	7 7/8"	1720 sx.	--
29. LINER RECORD					
SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	
30. TUBING RECORD					
SIZE	DEPTH SET (MD)	PACKER SET (MD)			
2 1/16"	7249'	6675'			
31. PERFORATION RECORD (Interval, size and number)					
7165'-7173' Perforated the Dakota @ 1 SPF					
7276'-7283' w/ 41, 0.40" holes					
7290'-7293'					
7311'-7326'					
7341'-7344'					
32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.					
DEPTH INTERVAL (MD)		AMOUNT AND KIND OF MATERIAL USED			
7165'-7344'		Acidized w/ 2000 gal of 15% HCL			
and fraced w/ 105,760 gal of frac fluid, 90,000# of 20-40 sd, &		899,400 SCF of N ₂ .			
33.* PRODUCTION					
DATE FIRST PRODUCTION 8-23-81		PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump) Flowing			WELL STATUS (Producing or shut-in) Shut-in
DATE OF TEST 8-10-81	HOURS TESTED 3	CHOKE SIZE 48/64"	PROD'N. FOR TEST PERIOD --	OIL—BBL. 10	GAS—MCF. 263
WATER—BBL. 8	GAS-OIL RATIO --				
FLOW. TUBING PRESS. 131#	CASING PRESSURE pkr.	CALCULATED 24-HOUR RATE --	OIL—BBL. 80	GAS—MCF. 1924	WATER—BBL. 64
OIL GRAVITY-API (CORR.) --					
34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.) Vented					TEST WITNESSED BY Paul D. Berhost
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 <i>J. M. Anderson</i>		TITLE <i>For</i> Are Superintendent		DATE <i>SEP 9/1/81</i>	

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

Oper

BY

FARMINGTON, N.M. 87401

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 35.

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: "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.)

37. SUMMARY OF POROUS ZONES:

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.
Dakota Gallup	7165' 6277'	7344' 6602'	

38.

GEOLOGIC MARKERS

NAME	TOP	TRUE VERT. DEPTH
Ojo Alamo	2400'	
Pictured Cliffs	2926'	
Chacra	3791'	
Mesa Verde	4516'	
Gallup	6268'	
Greenhorn	7057'	
Dakota	7160'	

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN DUPLICATE*

(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 checked="" type="checkbox"/>	GAS WELL <input 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. CESVR. <input type="checkbox"/>	Other _____
2. NAME OF OPERATOR Getty Oil Company						5. LEASE DESIGNATION AND SERIAL NO. Contract #34	
3. ADDRESS OF OPERATOR P.O. Box 3360, Casper, WY 82602						6. IF INDIAN, ALLOTTEE OR TRIBE NAME Jicarilla Tribe	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements) At surface 790' FNL & 1650' FEL At top prod. interval reported below Same At total depth Same						7. UNIT AGREEMENT NAME	
14. PERMIT NO. _____ DATE ISSUED 4-14-81						8. FARM OR LEASE NAME Jicarilla "C"	
15. DATE SPUDDED 4-19-81						9. WELL NO. 28	
16. DATE T.D. REACHED 5-9-81						10. FIELD AND POOL, OR WILDCAT Otero Gallup/Basin Dakota	
17. DATE COMPL. (Ready to prod.) 7-29-81						11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA B Sec. 34-T25N-R5W	
18. ELEVATIONS (DF, RES. RT, GR, ETC.)* 6874' GL						12. COUNTY OR PARISH Rio Arriba	
19. ELEV. CASINGHEAD						13. STATE New Mexico	
20. TOTAL DEPTH, MD & TVD 7435'						21. PLUG, BACK T.D., MD & TVD 7394'	
22. IF MULTIPLE COMPL., HOW MANY* 2						23. INTERVALS DRILLED BY 0'-7435'	
24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)* 6277'-6602' Gallup						25. WAS DIRECTIONAL SURVEY MADE Yes	
26. TYPE ELECTRIC AND OTHER LOGS RUN DIL & CNL/FDC						27. WAS WELL CORED No	
28. CASING RECORD (Report all strings set in well)							
CASING SIZE		WEIGHT, LB./FT.		DEPTH SET (MD)		HOLE SIZE	
8 5/8"		24#		322'		12 1/4"	
5 1/2"		14 & 15.5#		7433'		7 7/8"	
29. LINER RECORD							
SIZE		TOP (MD)		BOTTOM (MD)		SACKS CEMENT*	
30. TUBING RECORD							
SIZE		DEPTH SET (MD)		PACKER SET (MD)			
2 1/16"		6484'		6675'			
31. PERFORATION RECORD (Interval, size and number)							
6277'-80'		6448'-84'					
6322'-28'		6560'-602'					
6287'-95'		Perforated Gallup @ 1SPF w/ 122					
6346'-65'		0.40" holes.					
6385'-91'							
6369'-71'							
32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.							
DEPTH INTERVAL (MD)				AMOUNT AND KIND OF MATERIAL USED			
6277'-6602'				Acidized w/ 6000 gal of 15% HCL, and fraced w/ 130,000 gal of frac fluid, 177,000# 20-40 sd., and 1,892,700 SCF of N ₂ .			
33.* PRODUCTION							
DATE FIRST PRODUCTION 6-3-81		PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump) Flowing				WELL STATUS (Producing or shut-in) Shut-in	
DATE OF TEST 8-18-81		HOURS TESTED 3		CHOKE SIZE 21/64"		PROD'N. FOR TEST PERIOD →	
FLOW. TUBING PRESS. 309#		CASING PRESSURE 733#		CALCULATED 24-HOUR RATE →		OIL—BBL. 76	
						GAS—MCF. 330	
						WATER—BBL. —	
						OIL GRAVITY-API (CORR.) 42°	
34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.) Vented						TEST WITNESSED BY Paul D. Berhost	
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 J. H. Harrison		TITLE Area Superintendent		DATE 9/1/81		FARMINGTON DISTRICT	

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

OPERATOR

FARMINGTON DISTRICT
BY Sam

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 35.

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: "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.)

37. SUMMARY OF POROUS ZONES:

SHOW ALL IMPORTANT ZONES OF POROSITY AND CONTENTS THEREOF; CORDED 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.
Dakota	7165'	7344'	
Gallup	6277'	6602'	

38.

GEOLOGIC MARKERS

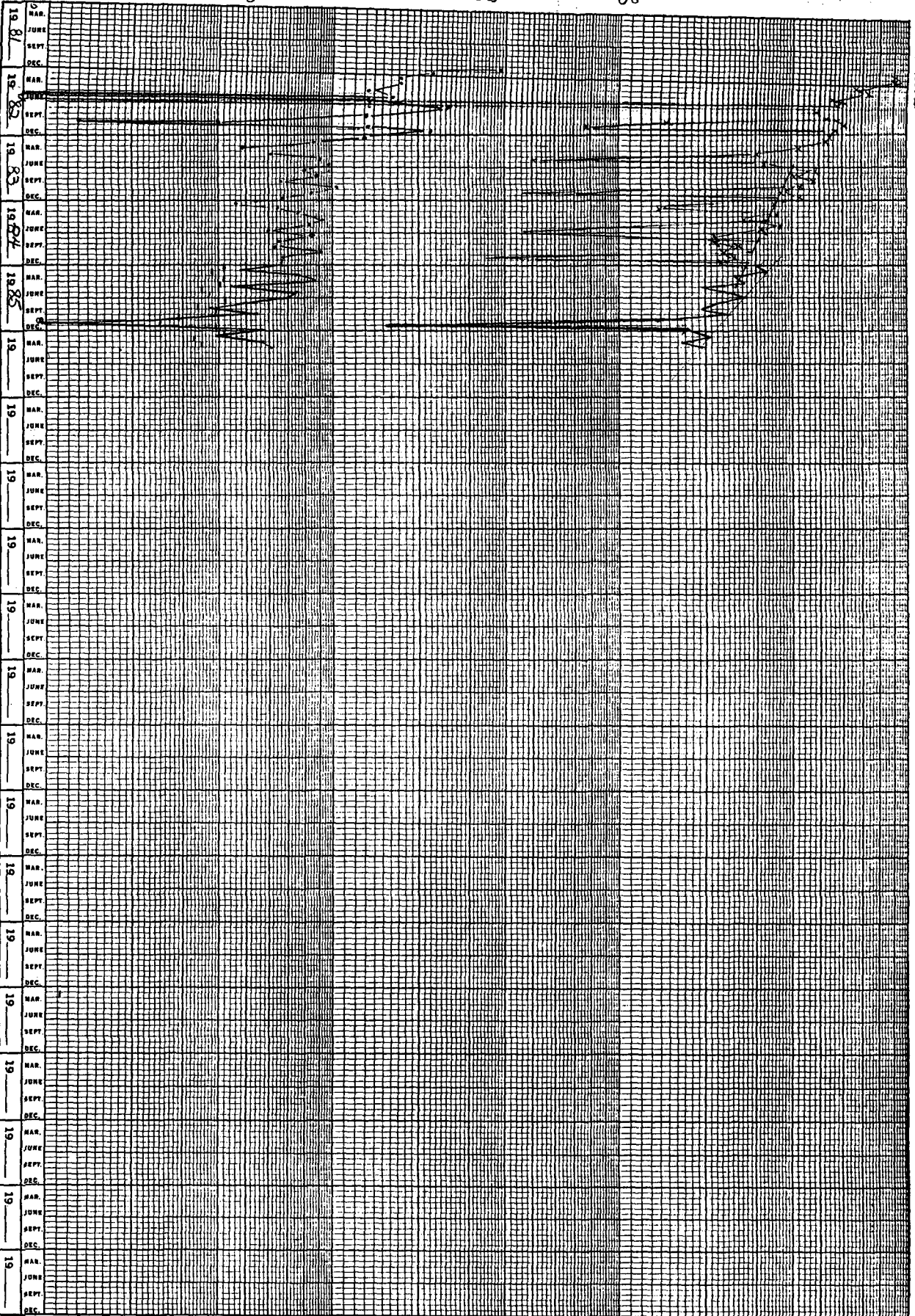
NAME	MEAS. DEPTH	TRUE VERT. DEPTH
Ojo Alamo	2400'	
Pictured Cliffs	2926'	
Chacra	3791'	
Mesa Verde	4516'	
Gallup	6268'	
Greenhorn	7057'	
Dakota	7160'	

1000
1000

1000
1000

100
100

50



LEASE JCARILLA NO. 28-4 DAK

M# 93969



STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION
AZTEC DISTRICT OFFICE

1000 RIO BRAZOS ROAD
AZTEC, NEW MEXICO 87410
(505) 334-6178

OIL CONSERVATION DIVISION
BOX 2088
SANTA FE, NEW MEXICO 87501

AUG - 4 1986

DATE 7-31-86

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

Gentlemen:

I have examined the application dated 7-30-86
for the Texaco Jicavilla "C" #28 B-34-25N-5W
Operator Lease and Well No. Unit, S-T-R

and my recommendations are as follows:

Approve

Yours truly,

E. B. Burch