RafAJE 11.29.93 DHC



Texaco Exploration and Production Inc

OF CONSERVE ON DIVISION <u>REELED</u>

3300 N Butler

Farmington NM 87401 3 MO 7 1 AM 9 49

STATE OF NEW MEXICO ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT OIL CONSERVATION DIVISION PO BOX 2088 STATE LAND OFFICE BUILDING SANTA FE, NEW MEXICO 87504

Attention: Michael E. Stogner Chief Hearing Officer/Engineer

Application for Exception to NMOCD Rule 303-A: Downhole Commingle L.L. McConnell No. 1 Section 30-T25N-R3W, NMPM, Rio Arriba County, NM RE:

Dear Mr. Stogner:

Texaco respectfully requests administrative approval to downhole commingle the Blanco Mesa Verde Gas Pool and the West Lindrith Gallup-Dakota Oil Pool within the referenced well. The request in based on offset performance and the expected performance of the Mesa Verde in the subject well. Please accept the attached information in your consideration of this matter. All offset operators were notified of the request by Certified Mail and were sent a copy of the supporting information.

If you have any questions concerning this matter please contact Mr. Rached Hindi at (505) 325-4397, ext 15. Your attention to this matter is greatly appreciated.

Sincerely,

250 222

Ted A. Tipton Area Manager

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Attachments NMOCD-Aztec file

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Texaco Exploration and Production Inc

3300 N Butler Farmington NM 87401

October 21, 1993

Meridian Oil, Inc. 3535 E. 30th Farmington, New Mexico 87401

Attention: Mr. Van L. Gobel

Downhole Commingle L. L. McConnell No. 1, Sec. 30-T25N-R3W Rio Arriba County, NM Blanco Mesa Verde West Lindrith Gallup - Dakota Re:

Dear Mr. Gobel:

As an offset operation to the spacing unit for the referenced well, you were furnished with a copy of our request to include the L. L. McConnell No. 1 well under the existing commingling order No. R-5500. You are now being furnished with additional information requested by the NMOCD.

If no objection is received within 20 days of receipt of this letter, the Director may administratively approve the application. Thank you for your attention to this matter.

If you have any questions concerning this matter please contact Mr. Rached Hindi at (505) 325-4397 ext. 15.

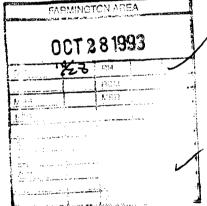
Sincerely,

rh

Jec Jit

Ted A. Tipton Area Manager

attachments file



	Waiver Approval:	
COMPANY: _	Meridian Oil Inc.	· · · ·
BY:	They & Machy	
DATE:	Oct. 26, 1993	



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

(1) Name and address of the operator. Texaco Exploration and Production Inc. 3300 N. Butler Suite 100 Farmington, NM 87401

(2) Lease Name, Well Number, Well Location, name of the pools to commingled.

Lease Name: Well Number:	L. L. McConnell
Well Location:	1190' FSL & 1450' FWL,
	1190' FSL & 1450' FWL, Section 30, T25N-R3W, NMPM Rio Arriba County, New Mexico Blanco - Mesa Verde and West Lindrith, Gallup - Dakota
Pools Commingled:	Blanco - Mesa Verde and West Lindrith, Gallup - Dakota

- A plat of the area showing the acreage dedicated to the well and the ownership of all offsetting leases. (3)
 - (Attachments I, II and III) Attached
- 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. (4)

The C-116 for L.L. McConnell No. 1 Gallup-Dakota production is attached (Attachment IV). No production data exits for the proposed Mesa Verde completion. However, attached (Attachment V) are C-115s showing Mesa Verde production from offsets Lydia Rentz Nos. 7 and 8. The Mesa Verde completion in the L. L. McConnell No.1 is expected to perform similarly to the offsets.

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 submitted.) (5)

L. L. McConnell No. 1 Gallup - Dakota Decline curves attached (Attachment VI).

Mesa Verde - New completion, no production history available. However, Decline curves of offset Lydia Rentz No. 8 and C. W. Roberts Nos. 3A and 6A are attached (Attachments VII, VIII and IX) and the Mesa Verde completion in the L.L. McConnell No.1 is expected to perform similarly to the offsets.

The Mesa Verde Formation will be perforated from 5712'-5714' and 5790'-5800' and stimulated in a single stage as described on the attached Workover procedure (Attachment X). The Mesa Verde interval will be tested to determine volume and pressure prior to commingling. The well will be commingled pending the results of the flow testing.

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

The Mesa Verde and Gallup-Dakota bottom hole pressure is estimated based on offset performance. Mesa Verde: 1460 psi (Attachment XI) Gallup-Dakota: +-800 psi (Attachment XII)

Actual Mesa Verde P_{BH} will be obtained using shut-in testing upon completion.

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

The fluids have no abnormal components that would prohibit commingling, or promote the creation of emulsions or scale. The major components of the produced waters are sodium, chlorides and bicarbonates. Several offsets are commingled in the proposed zones and no production problems have occurred.

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

Gallup - Dakota Production Oil, BOPD 10 Gas, MCFD 45 Water, BWPD 1 Gallup - Dakota ProductionAnticipated Mesa Verde ProductionOil, BOPD10Oil, BOPD0Gas, MCFD45Gas, MCFD800Water, BWPD1Water, BWPD1The combined production from the Gallup-Dakota and Mesa Verde Formations will be approximately845 MCFD, 10 BOPD and 2 BWPD. Prior to the workover, the Gallup - Dakota was produced usinga rod pump.With the addition of the Mesa Verde production, both completions should flow without a rod pump. With the add aid of the downhole pump.

The mechanics of the wellbore are not conducive to a "dual" completion. The $5^{1}/_{2}$ " casing would require a dual completion to consist of pumping the Gallup-Dakota under a packer and flowing the Mesa Verde up the casing-tubing annulus. Pumping the Gallup-Dakota under a packer would be inefficient due to gas locking. Flowing the Mesa Verde up the casing-tubing annulus would be inefficient due to wellbore loading and the inability to swab.

(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.

Monthly production from the West Lindrith Gallup - Dakota Oil pool is proposed to be calculated using the following formula: Q₂=Q₁(1-D)ⁿ MCFD where: Q₂= future production rate MCFD Q₁= current production rate MCFD D= effective in percent per year, from decline curve n= years into the future to Q₂ from Q₁ Oil and water production will be calculated using the existing GLR and GOR of the Dakota Formation. Any oil, gas and water production above what is calculated by the above shall be attributed to the Blanco Mesa Verde Gas Pool.

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. (10)

All offset operators have been notified. Please find attached, signed return receipt cards form each operator.

Submit to Appropriate Distinct Office State Lease - 4 copies Fee Lease - 3 copies

DISTRICT I P.O. Box 1980, Hobbs, NM 88240

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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 Namral Resources Department

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ATTACHMENT I

P.O. Box 208	38
Santa Fe, New Mexico	87504-2088

OIL CONSERVATION DIVISION

WELL	LOCATION	AND	ACREAGE	DEDICATION	PLAT

All Distances must be from the outer boundaries of the section

Operator					Lease			· · · ·	Well No.
TEXACO	TNC				L. L.	McConnell			#1
Unit Letter	Sectio		Township		Range			County	
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Form C-102 Revised 1-1-89

Submit to Appropriate District Office State Lease - 4 copies Fee Lease - 3 copies

DISTRICT I P.C. Box 1983, Hobbs, NM 88240

DISTRICT II P.O. Drawer DD, Artesia, NM 88210

DISTRICT III 1000 Rio Brazos Rd., Aziec, NM 87410

State of New Mexico Energy, Minerals and Namral Resources Department

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Form C-102 Revised 1-1-89

JIL CONSERVATION DIVISION P.O. Box 2088

Santa Fe, New Mexico 87504-2088

ATTACHMENT II

WELL LOCATION AND	ACREAGE	DEDICATION	PLA1
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All Distances must be from the outer boundaries of the section

Operator					Lease					Well No.	
TEXACO	INC	•			L.L	. McConne	11			#1	
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H Attachment

State of New Mexico Energy, Minerals and Natural Resources Department

Form C-116 Revised 1/1/89

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

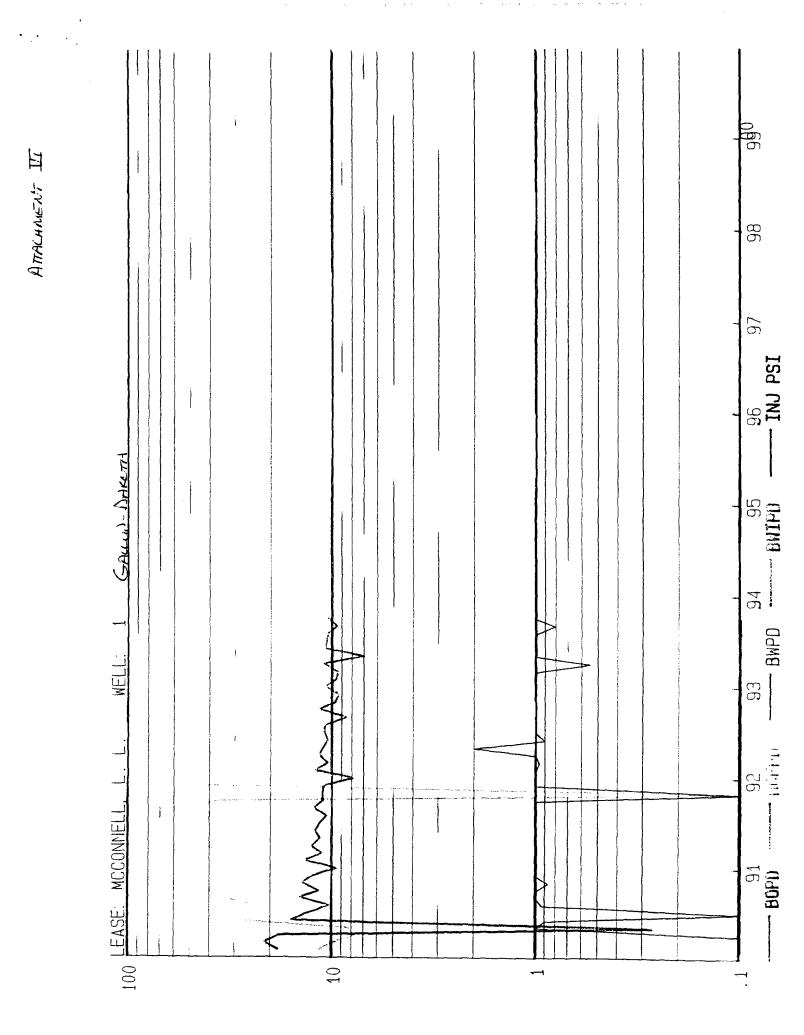
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1002 Rio Brazos Rd., Aztec, NM 57410

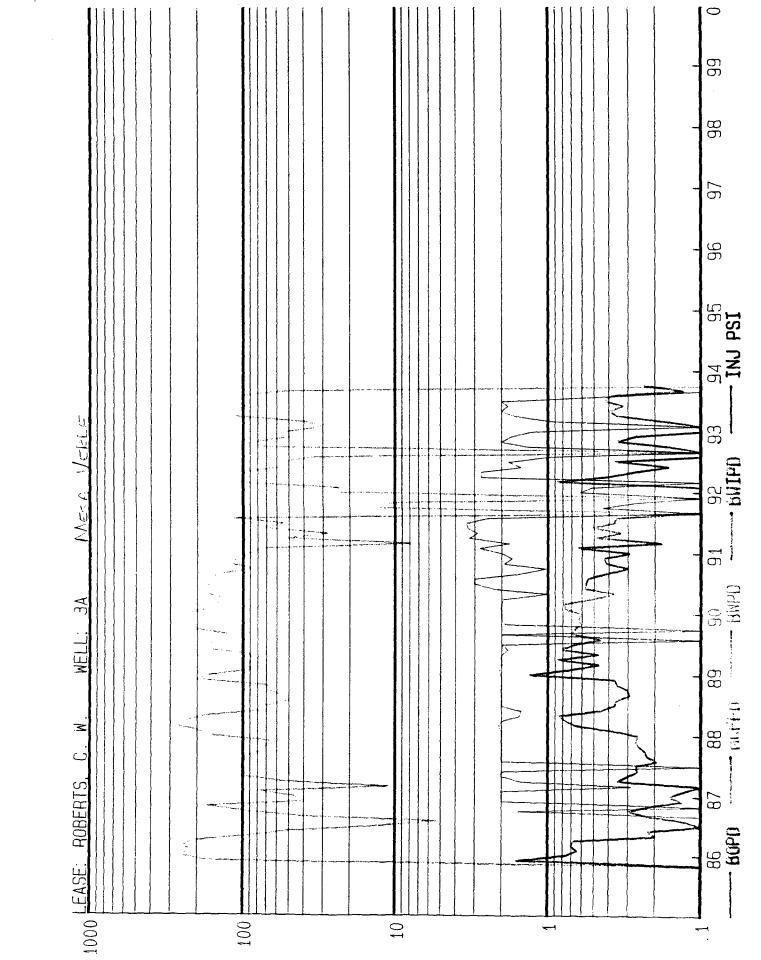
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See Rule 301, Rule 1116 & appropriate pool rules.)

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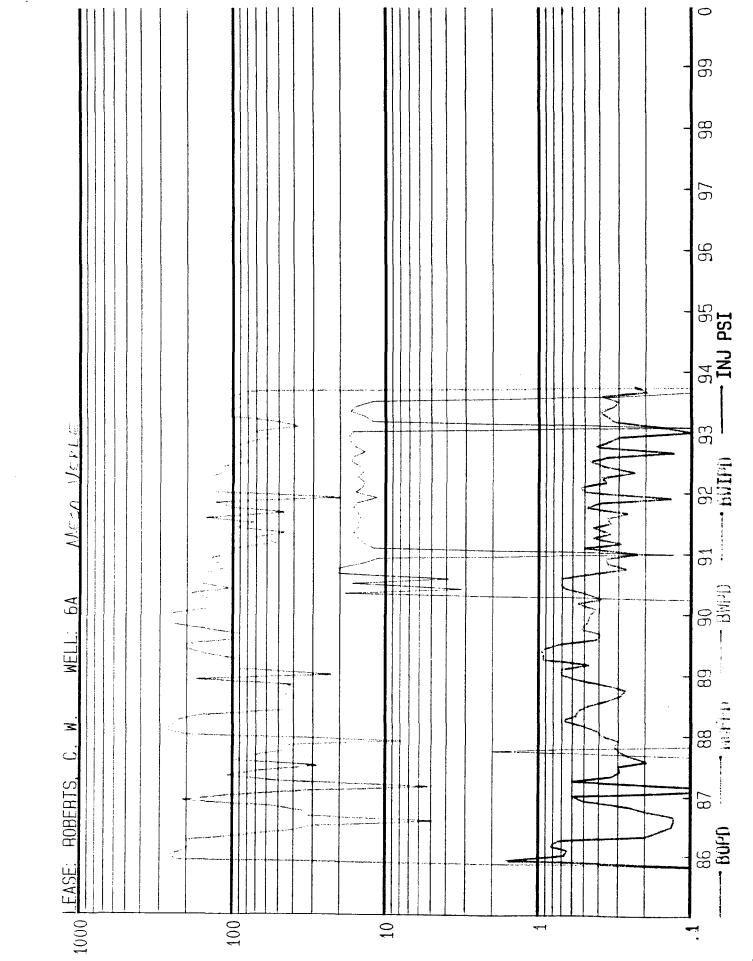


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ANNCHMENT BUL

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ATTACHMENT IX

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Date: 10/20/93

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ATTACHMENT I

L. L. McConnell Nº 1 Mesa Verde Workover Procedure

1. MIRUSU, NDWH, NUBOP.

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- 2. POOH w/ Rods, Pump and Tubing.
- 3. RIH w/ 5-1/2" RBP on 2 3/8" prod TBG to ~6200', set RBP (above GP-DK perfs), Load hole and test RBP and CSG to 1000 PSI. POOH w/ TBG.
- 4. RU wireline and RIH and perf sqz holes (2 spf) @ 5200' and 6100'(No cement across Mesa Verde perforation interval as per the cement bond log). RD wireline. RIH w/ PKR on 2-3/8" TBG, set PKR ~5600' and establish circ between sqz holes. POOH w/ TBG and PKR. (If circ is not obtained, evaluate additional sqz holes)
- 5. RIH w/ CMT RET on 2-3/8 TBG, set RET @ ~5600, test RET and TBG to CMT circ press. Circ LFL CMT through sqz holes 6100'(circ annular vol + 20%), displace CMT inside TBG to 50' above top sqz hole. Sting out of RET and PUH to ~5000'. Reverse TBG clean and POOH. SDFN, WOC.
- 6. RIH w/ bit and collars, drill out CMT and RET, test CSG to 1000 psi, evaluate. TOH with bit and collars.
- 7. TIH with 2 3/8 TBG and raise RBP to 5850'. TOH with tubing.
- 8. RIH w/ perf gun and perforate Mesa Verde formation using 4 JSPF from 5712'-5714 (4 jspf), 5790'-5800'(4jspf), POOH, RD wireline.
- 9. RIH w/ 5-1/2" treating PKR on 3-1/2" workstring, set PKR @ ~5650'. RU Service Company and fracture stimulate perforated interval using 260,000 # 20/40 Brady Sand and 70,000 Gal 25 and 30 # X-Linked Gel. Tail Brady sand with 15,000 # resin coated sand.
- 10. Shut well in over night to allow resin coating to cure.
- 11. Flow well back until dead, POOH w/ 3-1/2" TBG. RIH w/ 2-3/8 TBG. Test for Mesa Verde pressure and production rate for commingling authorization. Evaluate for production equipment.
- 12. If Mesa Verde completion is successful RIH w/ retrieving head on 2-3/8" TBG and POOH w/ RBP @ 5850'. RIH w/ production equipment. If completion is unsuccessful, squeeze Mesa Verde completion and RIH w/ Gallup-Dakota production equipment.
- 13. NDBOP, NUWH. Set production equipment and return well to production. RDMOSU.

Attachment

PETRO LOG MC. (*

(806) 637-4993

P. O. Box 588

Brownfield, Texas 79316

XI

TEXACO EXPLORATION & PRODUCTION, INC. DATE RUN: 11-5-92 LYDIA RENTZ WELL NO. 8 , MV

PRESSURE BUILDUP TEST

TEST DEPTH 5806'

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1.4 C 14 A 21 C

DATE PULLED: 11-16-92

BOTTOMHOLE PRESSURE: WHEN FIRST REACHED BOTTOM - 976 WHEN FIRST SHUT-IN - 988

TIME SINCE SHUT-IN (HOURS)	PRESSURE	TIME SINCE SHUT-IN (HOURS)	PRESSURE
25.0	1384	150.0	1453
30.0	1389	160.0	1453
40.0	1413	170.0	1454
50.0	1423	180.0	1455
60.0	1428	190.0	1457
70.0	1433	200.0	1457
80.0	1440	210.0	1458
90.0	1441	220.0	1458
100.0	1443	230.0	1458
110.0	1446	240.0	1460
120.0	1448	250.0	1460
130.0	1451	257.0	1460
140.0	1449		,

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Revised	10/10/78

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Attachment III

NORTHWEST NEW MEXICO PACKER-LEAKAGE TEST

Operator TEXACO E & P INC.					ROBERTS	Well No6
Location of Well: Unit:G	_Sec18	Twp	25N	_Rge	3W	County_RIO ARRIBA

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ENERGY and MINERALS DEPARTMENT

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	NAME OF RESERVOIR OR POOL	TYPE OF PROD. (OIL OR GAS)	METHOD OF PROD. (Flow or Art. Lift)	PROD. MEDIUM (Tbg. or Csg.)
Upper Completion	BLANCO MESAVERDE	GAS	FLOW	TBG.
Lower Completion	LINDRETH GALLUP DAKOTA	OIL	FLOW	TBG.

PRE-FLOW SHUT-IN PRESSURE DATA

<u>۲</u>	Upper Completion	Hour, Date shut-in 5-17-92	Length of time shut—in	Si press. psig	Stablized (Yes or No)
1	Lower	Hour, Date shut-in	Length of time shut-in	Si press. psig	Stablized (Yes or No)
	Completion	5-17-92			

FLOW TEST NO. 1

Commenced	at (hour, date)*		Zone producing (Upper or Lower) LOWER		
TIME	LAPSED TIME	PRESSURE		PROD. ZONE	REMARKS
(hour,date)	SINCE*	Upper Completion	Lower completion	TEMP.	
4-20-92					BOTH ZONES SHUTIN
4-21-92	24 HRS.	598	723		
4-22-92	48 HRS.	680	787		
, 4-23-92	72 HRS.	700	804		
4-24-92	96 HRS.	705	259		UPPER SHUTIN;LOWER FLOW 24 HRS.
4-25-92	120 HRS.	708	232		UPPER SHUTIN:LOWER FLOW 24 HRS.

Production rate during test

Oll_____BOPD based on_____Bbls. in ____Houre___ Grav.____GOR__

Gas

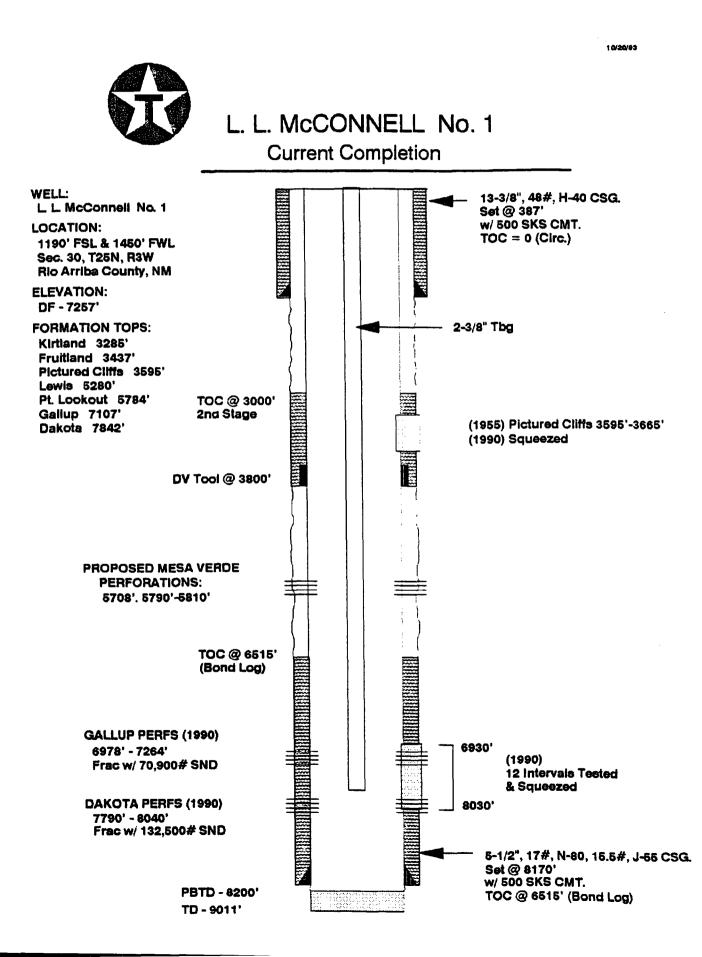
MCFPD; Tested thru (Orifice or Meter):

MID-FLOW SHUT-IN PRESSURE DATA

Upper	Hour, Date shut-in	Length of time shut-in	Si press. psig	Stablized (Yes or No)
Completion		•		
Lower	Hour, Date shut-in	Length of time shut—in	Si press. psig	Stablized (Yes or No)
Completion		-	· · ·	. ,

WA PRODUCTION AT TEST 31 MBO 282 MMCF

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