# Memo

Grom

CARL ULVOG SENIOR

To PETROLEUM GEOLOGIST

File DHC-140

Setty # 1 Dora E. Meyers was not dually completed. Furthermore, there will be oil (comingled in well bore) pumped (thru tubing) and gas flowed (thru casing-tubing annulus)

There loss not appear to be any provision for this type of completion in rules, as they cover only administrative approval for down hole commingling in a well which had previously been approved for a dual completion.

I discussed this with Mr. Parter and Mr. Mutter on 2/7/74, set they were in both of which agreed this application should be approved but to minor amounts of the oil and level.

DHC-140 Du 2/11/74

ACATHEMARIMAN MIC-CONTINENT EXPLORATION AND PRODUCTION DIVISION

P. O. Box 249 Hobbs, New Mexico 88240

January 21, 1974

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

Attention: Mr. A. L. Porter, Jr.

JAN 22 1974

JAN 22 1974

JAN 28 1974

JAN 28 1974

JAN 28 1974

Santa Fe

Re: Application for Downhole
Commingling Getty Oil Company's
Dora E. Meyers Well No. 1
(Lovington Paddock & Lovington
Tubb), Lea County, New Mexico

#### Gentlemen:

The subject well was recompleted to the Paddock Formation (6186-6269') in April 1953; the well was recompleted to the Tubb Zone (7775-8099') in November 1973. The Paddock is presently isolated behind a packer which requires the Tubb pumping equipment to produce all of the oil, gas, and water through the bottom hole pump. Attached is a "NABLA" Dynamometer Survey that shows the severity of the gas interference. Calculations show that 3-10 BOPD additional production would be possible if the produced gas could be vented via the casing. If the packer would be removed, then the production should increase as follows:

- 1. 36 BOPD presently being produced from the Tubb,
- 2. 3-10 BOPD increase from the Tubb, and
- 4 BOPD increase from the Paddock.

The total production will be a maximum of 51 BOPD. New Mexico Oil Conservation Commission Rule 303 C (b) permits downhole commingling of two zones if the depth is below 8000 ft. and the total production is less than 60 BOPD. Getty Oil Company respectfully requests permission to remove the packer to permit the casing to vent the gas and the bottomhole pump to pump the fluid from both zones; the following data is offered in support of such request:

- I. The attached plat shows the Dora E. Meyers Lease outlined in RED and located in Section 33, Township 16 South, Range 38 East, Lea County, New Mexico. Well No. 1 is circled in RED on the plat.
- II. The well was producing from the Lovington Paddock until November 1973. A packer was set at 7756' to isolate the Paddock and the well was recompleted to the Lovington Tubb in December 1973.
- III. The latest tests are as follows:

5 mcf/day

Application for Downhole Commingling Dora E. Meyers Well No. 1
NMOCC-Santa Fe-A.L. Porter

January 21, 1974

PAGE NO. 2

LOVINGTON PADDOCK: In October 1973, the Paddock was averaging 4 BOPD; a trace of water and a GOR of 750/1. (Perforations 6186-6269').

LOVINGTON TUBB: On January 7, 1974, the Tubb was produced at a rate of 36 BOPD, 32 BWPD, and a GOR of 667/1. (Perforations 7775-8099')

NMOCC Forms C-116 are attached. These producing rates do not exceed the limits set out in Rule 303, Paragraph C (b); i.e., 60 BOPD.

- IV. Neither zone produces more water than the combined oil limit as determined in Rule 303, Paragraph C (d).
- V. Production decline curves are attached as follows:

LOVINGTON PADDOCK: Monthly production of oil and water since 1969.

LOVINGTON TUBB: Daily production of oil and water since well was completed (December 3, 1973). Also attached is the well completion history.

- VI. The production from the Paddock Zone was by artificial lift and the Tubb is produced by artificial lift. The producing bottomhole pressure is estimated to be less than 500 PSIG in each zone.
- VII. API gravity on the Paddock is 33.4° and the Tubb is 35.1°. Oil from each zone is classified as Sour Crude. If zones are commingled, the fluids will not be incompatible in the well bore.
- VIII. Since each zone is classified as Sour Crude, for price, downhole commingling will not reduce the oil value.
  - IX. The ownership of the zones to be commingled is common.
    - X. Commingling the well bore will not jeopardize the efficiency of future secondary operations in either zone.
  - XI. It is recommended that the production be allocated as follows:

LOVINGTON PADDOCK: 4 BOPD to the end of 1976.

3 BOPD to the end of 1981

2 BOPD to the economical limit of the well.

LOVINGTON TUBB: The Tubb production will be determined by the subtraction method.

XII. Copies of this Application have been furnished to offset operators.

Very truly yours, GETTY OIL COMPANY

Didn't really mean to dispose of gas

by newling or floring. 1-28-74 (Tele)

C. L. Wade

Area Superintendent

HBS-EJM/bh

ATTACHMENTS
CC: 1-NMOCC,P.O. Box 1980, Hobbs, N.M. 88240. 1-J.L. Cox 408 W. Wall,Midland,Tex.79701
1-Getty Oil Company, P.O. Box 1231, Midland, Texas 79701

# NABLA CORPORATION

January 2, 1974

### SUMMARY

Getty, D. E. Meyers No. 1

# Production Potential:

1) Well is capable of more production as indicated by a calculated pump intake pressure (PIP) of 672 psi; however, severe gas interference is limiting liquid fillage.

2) Based on an estimated static reservoir pressure of 3400 a PI of 0.027 is calculated. Thus, assuming this well could be pumped down to a PIP of 50 psi, an additional potential of 10 BOPD (17 BFPD) exists. If Vogel's method is used, additional potential is estimated at 3 BOPD (5 BFPD).

Equipment Loading:

- 1) Gearbox is operating at 86.6 percent of rated capacity. Unit is rod heavy with weights all-out. Ideally balanced with additional counterbalance the gearbox should operate at 61.6 percent of rating under existing conditions.
- 2) Rod loads are high if corrosion is a problem. Based on the API Goodman Diagram and a service factor of 0.8 the rods are operating at 103 percent and 77 percent of rating.

3) Prime mover load is not excessive.

4) Structure is operating at 94 percent of rating.

## Pump Conditions:

1) Severe gas interference is occurring. Out of a gross stroke of 68.4 inches only 35 inches are effective in displacing liquids. Thus, pump fillage is only 51 percent.

2) Pump is in good mechanical condition.

3) The pump displacement (78 BPD) agrees favorably with the test (75 BPD); thus, the test is accurate and no tubing leak is indicated.

Conclusions and Recommendations:

- 1) More production is available; however, to produce this well effectively venting is necessary. If well is vented make sure pump intake is positioned below all perforations to improve gas separation.
- 2) By increasing the stroke length to 74 inches or by changing to a 1-1/2 inch pump a small production increase of 3-5 BOPD (8 BFPD) is predicted. More counterbalance weight would be required to prevent gearbox overload and rod loads will be increased.

K. B. Nolen

# NABLA CORPORATION

#### ROD PUMPING DIAGNOSTIC ANALYSIS

COMPANY, LEASE AND WELL NUMBER: GETTY, D. E. MEYERS NO. 1

ANALYSIS NUMBER:

2R4-1-2-1

DATE OF ANALYSIS:

1/2/74

<<<< SURFACE EQUIPMENT >>>>

PRIME MOVER -

TYPE AND RATING:

LUFKIN H-333

ACTUAL POWER REQUIREMENTS \*\*\*\*\*\*\*\*

AVERAGE POWER(HP): CYCLIC LOAD FACTOR: 2.475

6.5

PEAK POWER(HP):

41.9

PUMPING UNIT -

MFGR AND TYPE: LUFKIN CONVENTIONAL GEARBOX RATING(M IN-LBS): 228 . 0

STRUCTURE RATING(LBS):

STROKE LENGTH(IN): 65.0

(74" MAX.)

ACTUAL STRUCTURE LOAD \*\*\*\*\*\*\*\*\*\*

MAXIMUM(LBS):

18855.

MINIMUM(LBS):

SUMMARY OF GEARBOX PERFORMANCE \*\*\*\*

•	EXISTING	IN BALANCE
PEAK TORQUE(M IN-LBS):	197.4	140 • 4
COUNTERBALANCE(M IN-LBS):	421 • 1	501.8
PERCENT OF GEARBOX, RATING:	86.6	61.6

<<<< ROD STRING >>>>

API ROD GRADE AND MIN TENSILE: GRADE K; 112000 PSI

# DIMENSIONS AND ACTUAL STRESSES \*\*\*\*\*

DIAM- ETER	INTERVAL LENGTH	MAX Stress	MIN STRESS		OF API-GOO SERVICE FAC	
(IN)	(FT)	(PSI)	(PSI)	1.0	<b>0 • 8</b>	0 • 6
•875	2625	31356.	19112.	62 • 3	103.0	295.9
.750	5108	25882•	15001.	50 • 8	76.9	158 • 6

#### <<<< SUBSURFACE PUMP >>>>

PUMP BORE SIZE(IN): 1.2500 SETTING DEPTH(FT): 7755.

ACTUAL PUMP CONDITIONS \*\*\*\*\*\*\*\*\*

PUMP INTAKE PRESSURE(PSI): 672.

GROSS STROKE(IN): 68.4

GAS INTERFERENCE: SEVERE
FLUID LOAD(LBS): 2215.

CRUDE SHRINKAGE FACTOR FROM PUMP TO STOCK TANK: 1.1773

- PUMP VOLUMETRIC DISPLACEMENTS -

BASED ON NET STROKE BASED ON GROSS STROKE

85. BPD 166. BPD 178. BPD 9 SURFACE CONDITIONS)

- PUMP EFFICIENCIES -

BASED ON TEST
AND GROSS STROKE AND NET STROKE
(PERCENT)

CRUDE SHRINKAGE NOT CONSIDERED:

45.0

87.9

CRUDE SHRINKAGE CONSIDERED: 49.6 96.9

<<<< OTHER DIAGNOSTIC INDICATORS >>>>

DOWNHOLE FRICTION: NORMAL

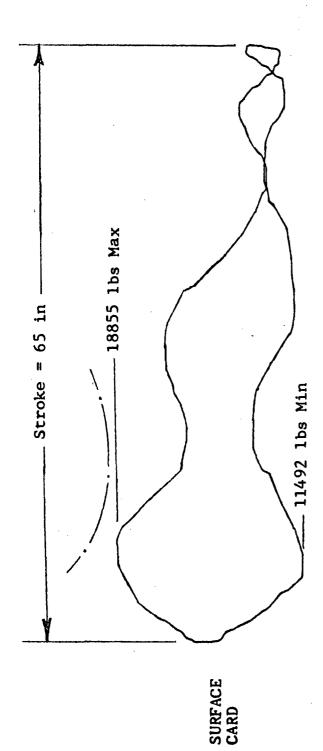
TUBING OR ANNULUS CHECK VALVE LEAK:

TUBING MOVEMENT(IN): .Ø LOST DISPLACEMENT(BPD): .Ø

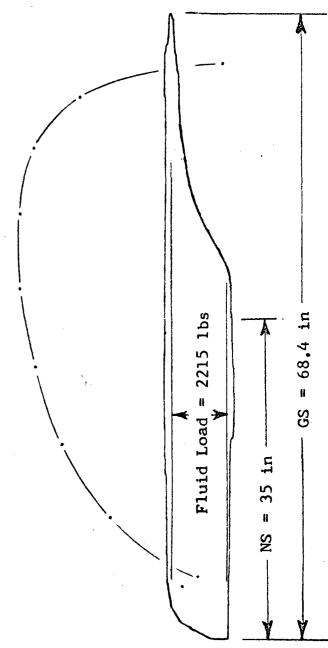
FLOWLINE PRESSURE(PS1): 60. AVG TBG GRAD(PSI/FT): .312

<<<< WELL TEST AND FLUID PROPERTY DATA >>>>

TEST DATE: 1/1/74 BFPD: BOPD: 43. 75• GOR: BWPD: 500-700 EST 32. PUMPING UNIT STROKE(IN): 65 SPM: 14 OIL GRAVITY(API): 36.6 WATER GRAVITY(SG): 1.175 BUBBLE POINT(PSI): 1000. EST. SOLUTION GOR: 400. EST. FORMATION VOLUME FACTOR: 1.220 EST.



Dotted and dashed lines are permissible loads for gearbox.



Severe Gas Interference

PUMP CARD

LEASE AND WELL NO: D. E. Meyers #1 LOCATION: 33-16-37
ZONE AND PERFORATIONS: TUBB 2775-1835, 7840 - 20, 7923 - 8099
FIELD: LOVINGTON COUNTY: LIEA STATE: NM
PURPOSE OF SURVEY: DETERMINE PIP. GAS INTELECTEDAE.
EFFECIENCY, ETC.
SURFACE EQUIPMENT:
PUMPING UNIT: 228 W/OFFSET BEAM (LUFKIN TC-28-36A-10217)
STRUCTURE RATING:
PRIME MOVER: LUFKIN H-333 55"X7" TWO CYCLE.
SUBSURFACE EQUIPMENT:
CASING SIZE: 55" SET AT: 8499' PBTD: EST. 8/26
TUBING SIZE: 23 " SET AT: 7760
COMPLETION: PERFS OR o/H FROM 7775 TO 8199
TUBING ANCHOR SA OR PACKER SA 7756
DOWNHOLE GAS SEPARATOR DESCRIPTION:
DOWNHOLE PUMP DESCRIPTION: SIZE: 2"X 14"X 16" SET AT 7755  ROD DESIGN:  RWBC W/6"X1" strainer nipple
ROD DESIGN: RWBC W/6"x1" strainer napple
5/8" ROD: LENGTH '; PERCENT %: API GRADE:
3/4" ROD: LENGTH 5/00': PERCENT 66.9 %; API GRADE: K
7/8" ROD: LENGTH 2625' '; PERCENT 33./ %; API GRADE: K
1" ROD: LENGTH ; PERCENT ; API GRADE:
TOTAL: <u>7625</u>
PRODUCTION DATA AND PROPERTIES:
TEST DATE: 1-1-74 TEST PERIOD 24 HOURS.
BOPD: 43; BWPD: 32; BFPD: 75
GOR: EST. 500-200; (S.G.) GRAVITY: OIL: 36.6; WATER: 1.175
BUBBLE POINT: 1000 est. PSI., SOLUTION GOR AT BUBBLE POINT: 400 est
STROKE LENGTH: 62.5 IN; SPEED (SPM) 14 FVF: 1.22 est.
ADDITION COMMENT: PADDOCK PERS. (6186-6269) OPEN ON
CSG. SIDE APOVE LOC-SET PKR.
Producing 1 months since fracturing

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GETTY OIL COMPANY
Dora E. Meyers No. 1
Lovington Field
Lea County, New Mexico
Application For Downhole
Commingling (Lovington
Tubb & Lovington Paddock)

Operator  GETTY OIL COMPANY  Address  P. O. Box 249, Hobbs, New Mexico  WELL	New Mex	ico	88240 LOCAT		ZINGTO	LOVINGTON TUBB	7US T M	TEST - (X)	Sch	Scheduled Con	County	Com				
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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.

will be 0.60. 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

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.

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AREA SUPERINTENDENT
(Title)

January 21, 1974

(Date)

Revised 1-1-65

		,	DORA E. MEYERS			Address P.O. BOX 249, HOBBS, NEW MEXICO 88240	Operator GETTY OIL COMPANY	
		1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-1000-10	 <b>1</b>	NO.	WELL	CO 882	*	
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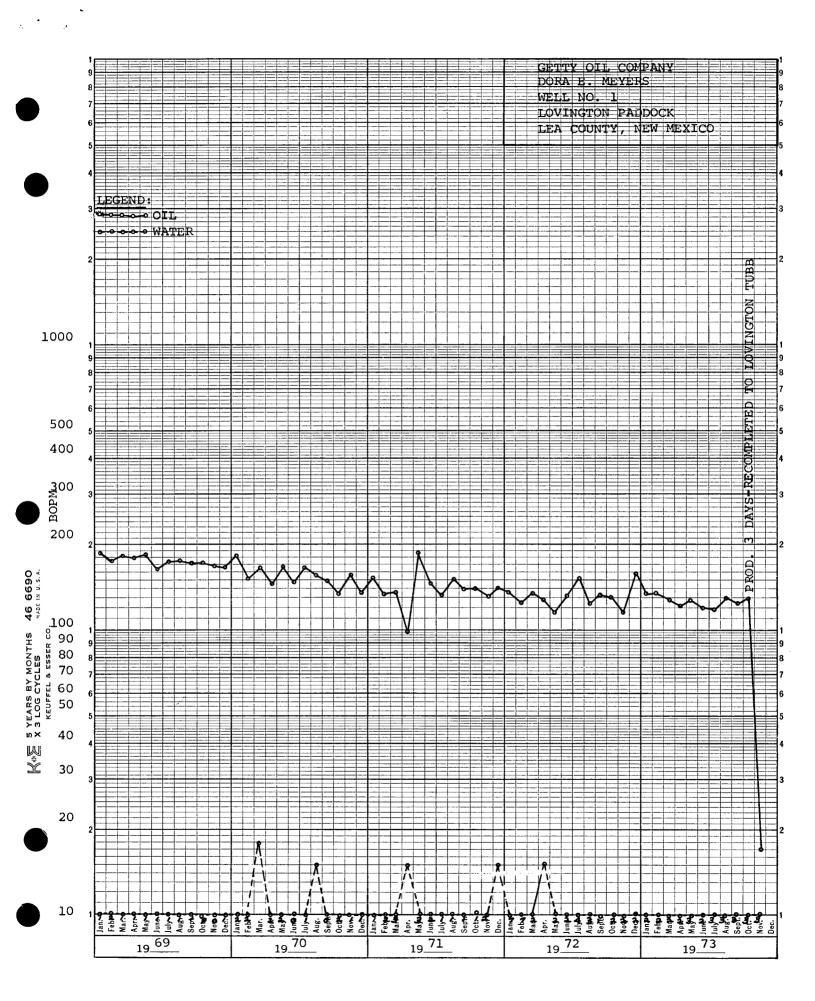
J. J.
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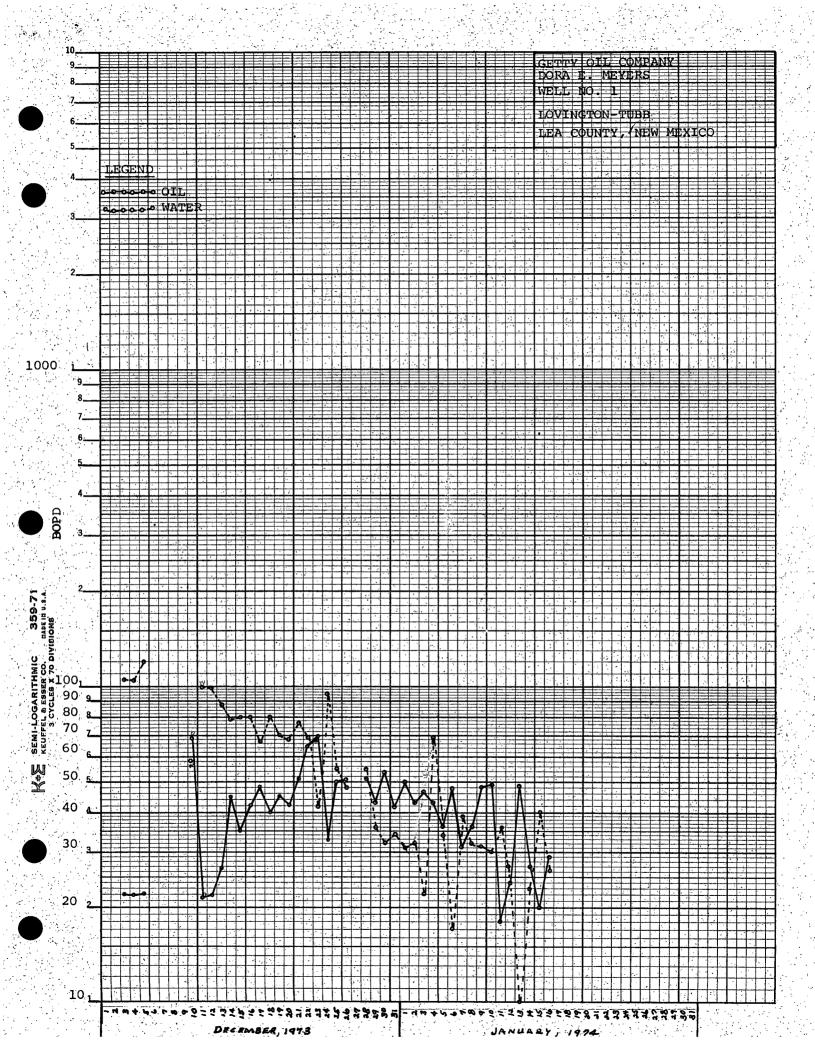
AREA SUPERINTENDENT (Signature)

(Title)

January 21, 1974

(Date)





			·
NO. OF COPIES RECEIVED			Form C-103
DISTRIBUTION			Supersedes Old C-102 and C-103
SANTA FE	NEW MI	EXICO OIL CONSERVATION COMMISSION	Effective 1-1-65
FILE	3-NMO		
U.S.G.S.	1-Fil	9	5a. Indicate Type of Lease
LAND OFFICE	<del></del>		State Fee. XX
PERATOR			5. State Oil & Gas Lease No.
(DO NOT USE THIS FORM	SUNDRY NOTICES AND	REPORTS ON WELLS	
OIL AS GAS		ORM C-101) FOR SUCH PROPOSALS.)	7. Unit Agreement Name
Name of Operator OIL CO	MPANY		8. Farm or Lease Name D. B. MEYERS
. Address of Operator			9. Well No.
	9, HOBBS, NEW MEX	100 88240	1
Location of Well  UNIT LETTER	1980	SOUTH 660	10. Field and Pool, or Wildcat LOVINGTON TUBB
West	33	16-8 37-E	
THELIN			NMPM.
	15. Eleve	ttion (Show whether DF, RT, GR, etc.)  98 DoFe	12. County
<sup>6.</sup> С	heck Appropriate Box	To Indicate Nature of Notice, Report of	or Other Data
	OF INTENTION TO:	<u> </u>	UENT REPORT OF:
PERFORM REMEDIAL WORK	PLU	S AND ABANDON REMEDIAL WORK	ALTERING CASING
EMPORARILY ABANDON		COMMENCE DRILLING OPNS.	PLUG AND ABANDONMENT
ULL OR ALTER CASING	CHAI	NGE PLANS CABING TEST AND CEMENT JOB	_ PEGG AND ABANDONMENT
		OTHER	<u></u>
OTHER	¢		
7. Describe Proposed or Comp work) SEE RULE 1103.	leted Operations (Clearly sta	ste all pertinent details, and give pertinent dates, inc	luding estimated date of starting any proposed
wireline bri casing at 79 Golden Jet e Gelled Brine flowed all b	dge plug at 8134' 23', 50, 59, 67, ach. Treated per 48,6638 20-40 s ut 1449 BLW. Rep cker at 7756'. B	mma Ray Collar Correlation Log: Dumped one sack cement on to, 76, 89; 8001', 19, 39, 45, 54, forations with 3,000 gals. 15% and, 350# Bensoic Acid and 650# laced 3-1/2" frac tubing with 2- can rade and put on pump.	p of BP. Perforated 5-1/2" 72, & 99' with one .39" NE Acid, 72,932 gals. 9# rock salt. Swabbed and
			1
			•
I. I nereby certify that the info	GINAL SIGNED BY:	mplete to the best of my knowledge and belief.	
C.L. Wada:	C. L. Wade	AREA SUPERINTENDENT	DECEMBER 4, 1973
1	Property		DEC 5 - 1973
PROVED BY	**************************************	TITLE	DATE

CONDITIONS OF APPROVAL,