

WMC - 403
NEWMONT OIL COMPANY
ROOM 303, FIRST NATIONAL BANK BUILDING
P. O. Box 1305
ARTESIA, NEW MEXICO 88210

August 22, 1973

NEW MEXICO
DISTRICT OFFICE

Mr. A. L. Porter, Jr.
Secretary-Director
State of New Mexico
Oil Conservation Commission
P. O. Box 2088
Santa Fe, New Mexico 87501

Re: Convert Producing Wells
to Red Sand Injection,
Young Unit, Young (Queen)
Pool, Lea County, New Mexico

Dear Mr. Porter:

Convert Young (Queen) Pool to Red Sand Injection

Newmont Oil Company (Operator of Young Unit) request administrative approval to convert the following producing wells in the Young Unit to Red Sand injection wells.

1. Well No. 14, Unit Letter B, 990' FNL & 2310' FEL of Section 20, Township 18S, Range 32E, Young Unit, Young (Queen) Pool, Lea County, New Mexico.
2. Well No. 16, Unit Letter E, 1980' FNL & 660' FWL of Section 20, Township 18S, Range 32E, Young Unit, Young (Queen) Pool, Lea County, New Mexico.

Conversion of these wells will aid in recovery of additional oil as it will provide a backup for our Young No. 15 and No. 17 wells. The offset operator Minntex Oil Company after injecting 47,636 barrels of water ceased injection on February 15, 1972 in their No. 5 well located 1980' FNL & 660' FWL of Section 19, Township 18S, Range 32E, Young (Queen) Pool, Lea County, New Mexico. Since injection has ceased in this area we would like to establish a backup on the west side of Tract No. 4 by injecting into Well No. 16. Minntex has injected 195,970 barrels of water as of July 1, 1973 in their No. 4 well located 330' FSL and 2310' FEL of Section 17, Township 18S, Range 32E, Young (Queen) Pool, Lea County, New Mexico. Presently, Minntex is only injecting about 50 barrels of produced water per day in this well. This low injection rate is inadequate to maintain proper secondary recovery operations. The theoretical water bank from this well based on flooding an aerial pattern of 240° is 544 feet from Young Unit Well No. 14 and 624 feet from Young Unit Well No. 13. Under the above circumstances it is imperative that Well No. 14 be converted to injection so a water bank can be established on the East side of this Tract. Approximately 350,000 barrels of oil could be recovered by converting Wells No. 14 and 16 to injection.

Mr. A. L. Porter, Jr.
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Young Unit waterflood operations was approved November 18, 1968 Case No. 3877 and by supplemental letter addressed to Mr. Jack Russell dated November 20, 1968.

Attached is a map showing location of wells, diagrammatic sketches of proposed installations, mechanical logs, and Form C-116 showing test prior and after commencing waterflood operations.

It is planned to inject approximately 400 barrels of water per day per well through tubing and below a packer.

Produced and fresh water will be used for injection. Presently, we are treating injected water with oxygen remover, corrosion inhibitor, and biocide chemicals.

The offset lease line operator Minntex Oil Company has been notified concerning Newmont's request.

Yours truly,

NEWMONT OIL COMPANY



Charles C. Joy
District Superintendent

CCJ/saf
Attachments

NEWMONT OIL COMPANY

ROOM 303, FIRST NATIONAL BANK BUILDING

P. O. Box 1305

ARTESIA, NEW MEXICO 88210

August 22, 1973

NEW MEXICO
DISTRICT OFFICE

Mr. F. W. Holloway, Jr.
MinnTex Oil Company
508 Pentagon Park Tower
Minneapolis, Minnesota 55435

Re: Convert Producing Wells to
Injection, Young Unit, Young
(Queen) Pool, Lea County,
New Mexico.

Dear Sir:

Newmont Oil Company is requesting administrative approval to convert No. 14 and No. 16 wells to injection. If you have no objection would you please sign the enclosed waiver and return in the self-addressed envelope to the New Mexico Oil Conservation Commission.

Enclosed is a map showing location of wells, diagrammatic sketches of proposed installations, mechanical logs, and Form C-116 showing test prior and after commencing waterflood operations.

Yours truly,

NEWMONT OIL COMPANY

Charles C. Joy

Charles C. Joy
District Superintendent

CCJ/saf
Enclosures

R-32-E

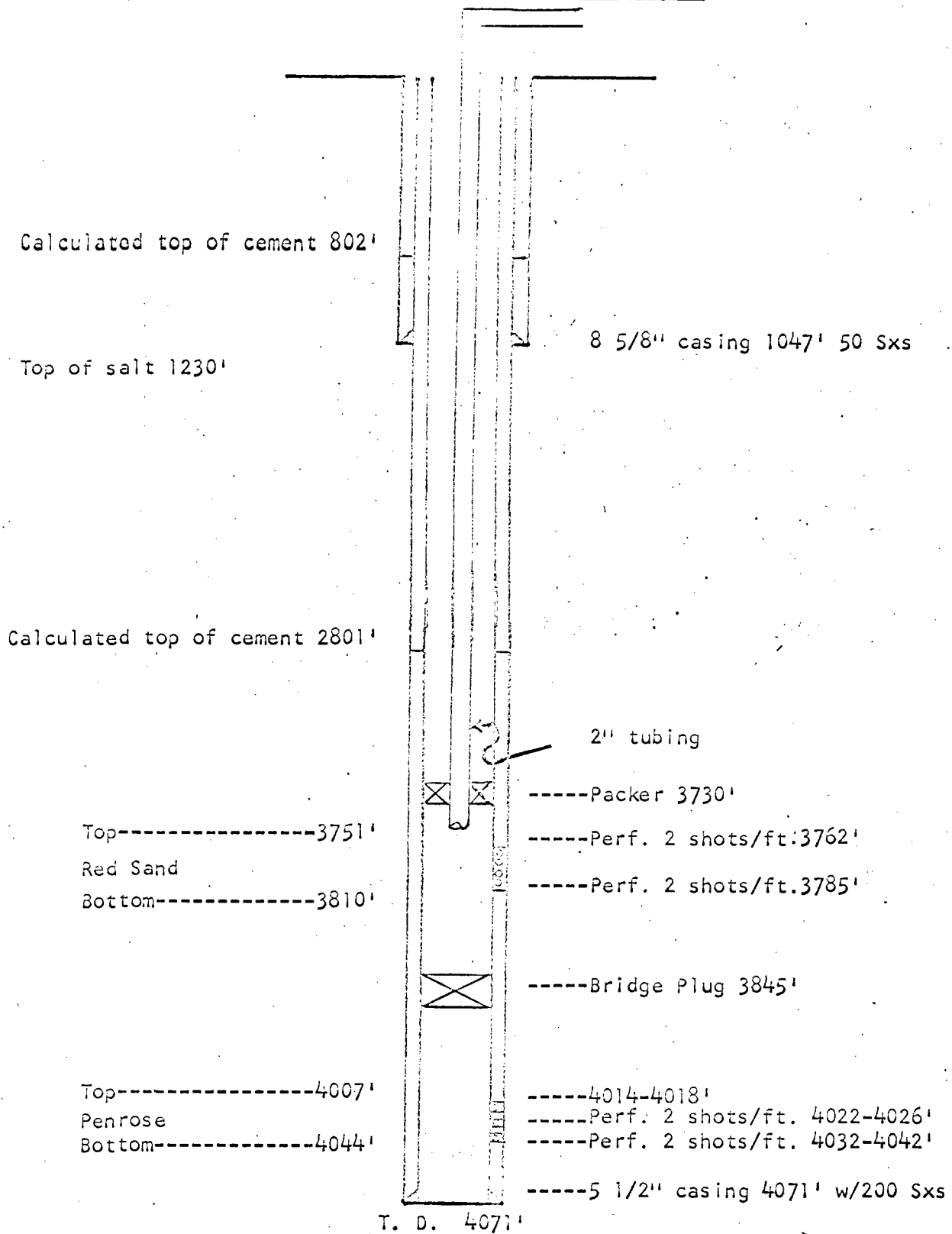


NEWMONT OIL COMPANY

YOUNG NO. 14

YOUNG FIELD, LEA COUNTY, NEW MEXICO

Location: 990 FNL 2310 FEL.
Sec. 20, T-18S-R32



NEWMONT OIL COMPANY

YOUNG NO. 16

YOUNG FIELD, LEA COUNTY, NEW MEXICO

Location: 1980 FNL 660 FWL
Sec. 20-T18S-R32E

Calculated top of cement 915'

Top of salt 992'

8 5/8" casing 1160' 50 sxs

Calculated top of cement 2453'

2" tubing

Packer 3634'

7" casing 3675' 100 Sx

3728'

Shot Hole

3767'

Cement Plug

Gravel Pack

Top 3736'

Red Sand

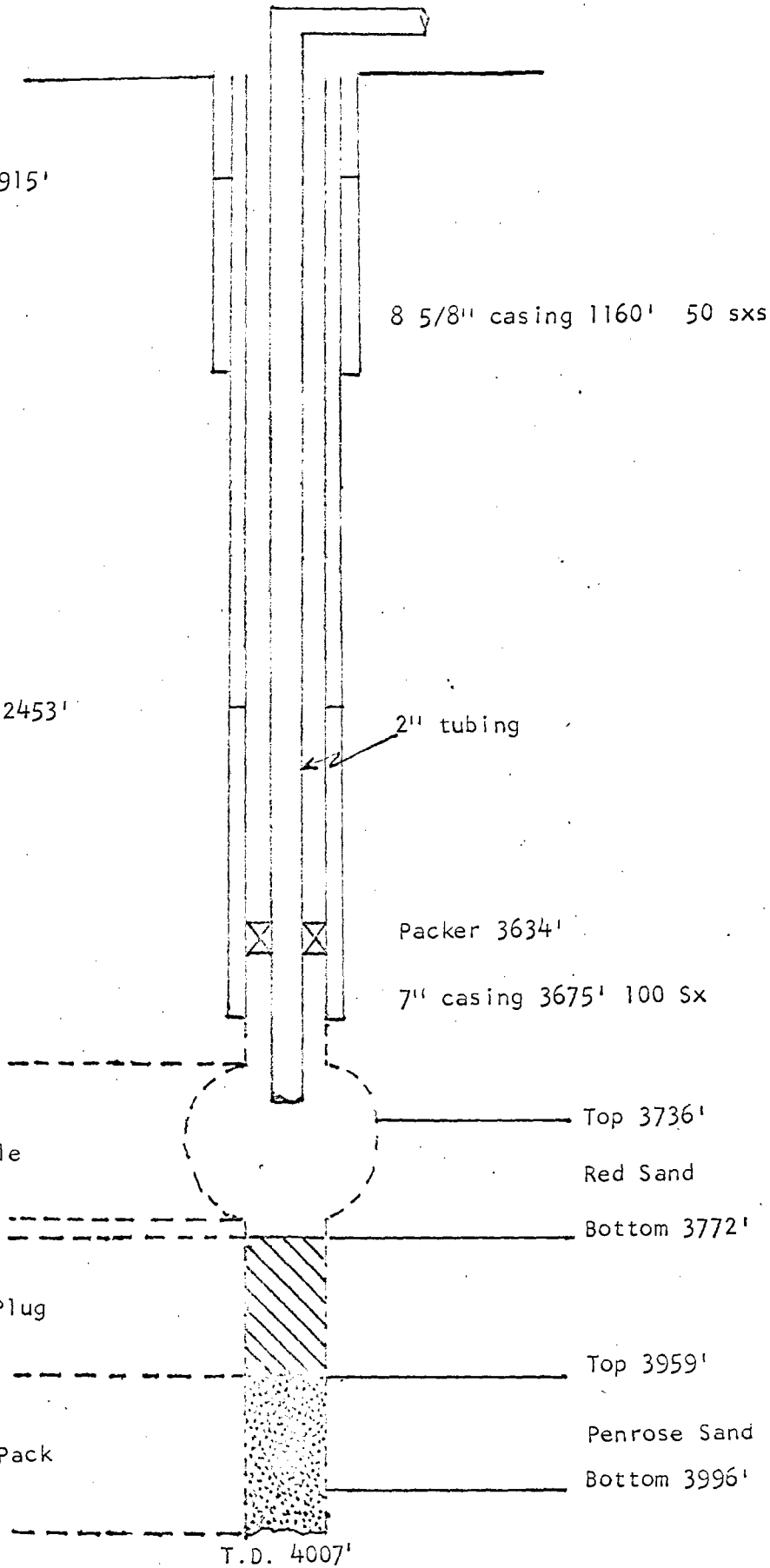
Bottom 3772'

Top 3959'

Penrose Sand

Bottom 3996'

T.D. 4007'



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

C-116
Revised 1-1-65

Operator NEWMONT OIL COMPANY		Pool YOUNG (Queen)		County Lea										
Address		TYPE OF TEST - (X)		Completion ☐ Special ☐										
LEASE NAME	WELL NO.	LOCATION U S T R		DATE OF TEST	CHOKE SIZE	TBG. PRESS.	DAILY ALLOW-ABLE	LENGTH OF TEST HOURS	PROD. DURING TEST WATER BBL.S. GRAV. OIL BBL.S. GAS M.C.F.		GAS - OIL RATIO CU.FT./BBL.			
Young Unit	14	B	20	18S	32E	May, 1960		Temporarily abandon	10	24	135	38°	14	TSTM
						7-29-73	P	0	NA	24	-0-	38°	1	NA
Young Unit	16	E	20	18S	32E	1-9-69	P	0	20	24	27	38°	13	TSTM
						7-3-73	P							

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.

Charles E. Perry
 District Superintendent
 August 21, 1973
 (Date)

YOUNG UNIT

Well No. 16

SCHLUMBERGER WELL SURVEYING CORPORATION		
COUNTY LEA FIELD or LOCATION YOUNG #3 WELL COMPANY MC CURDY-TRAMMELL JOINT ACCOUNT	COMPANY MC CURDY-TRAMMELL	Other Surveys
	JOINT ACCOUNT	Location of Well
	WELL YOUNG #3	1980' FNL 660' FWL
	FIELD YOUNG	Elevation: D.F. 3733 K.B. or G.L.
	LOCATION SEC. 20-18S-32E	FILING No.
COUNTY LEA	STATE NEW MEXICO	
Log Depths Measured From CTF 2 Ft. above G.L.		
RUN NO. 1 Date 5-23-60 First Reading 4004 Last Reading 3004 Footage Measured 1000 Max. Depth Reached 4005 Bottom Driller 4007 Maximum Temp. °F. Fluid Nature OIL Fluid Level 3786 Casing Size 7" in. Casing Weight SURF to 3675 lb. to Casing Size in. Casing Weight to lb. to Bit Size 6 1/4 in. 3675 to 4007 in. to Bit Size in. No. Counters Used SCINTILLATION Type Equipment GNT-B Type Panel GAP-C Opr. Rig Time 2 HOURS Truck No. 2522-ARTESIA Observer WILSON Witness JONES & BROWN		

