Form 3160-4
(November 1983)
(Formerly 9-330)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN DUPLICATE* (See other instructions on reverse side)

Form approved.
Budget Bureau No. 1004-0137
Expires August 31, 1985

WELL COMPLETION OR RECOMPLETION REPORT AND LOG*

RECEIVED
93 APR -5 AM 10:25
070 FARMINGTON, NM

5. LEASE DESIGNATION AND SERIAL NO.: SF-079364

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

30-039-25225

7. UNIT AGREEMENT NAME: Rincon Unit

8. FARM OR LEASE NAME: Rincon Unit

9. WELL NO.: #135E

10. FIELD AND POOL, OR WILDCAT: Otero Chacra 82329

11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA: D Sec. 29-T27N-R6W

12. COUNTY OR PARISH: Rio Arriba

13. STATE: New Mexico

1a. TYPE OF WELL: OIL WELL ☐ GAS WELL ☒ DRY ☐ Other

b. TYPE OF COMPLETION: NEW WELL ☒ WORK OVER ☐ DEEP-EN ☐ PLUG BACK ☐ DIFF. RESVR. ☐ Other

2. NAME OF OPERATOR: Union Oil Company of California dba Unocal

3. ADDRESS OF OPERATOR: 3300 N. Butler, Suite 200, Farmington, New Mexico 87401

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)*
At surface: 790' FNL, 790' FWL
At top prod. interval reported below: Same
At total depth: Same

14. PERMIT NO.: 30-039-25225 DATE ISSUED:

15. DATE SPUDDED	16. DATE T.D. REACHED	17. DATE COMPL. (Ready to prod.)	18. ELEVATIONS (DF, RKB, RT, GR, ETC.)*	19. ELEV. CASINGHEAD
10/09/92	10/24/92	03/27/93	6583' GR	

20. TOTAL DEPTH, MD & TVD	21. PLUG, BACK T.D., MD & TVD	22. IF MULTIPLE COMPL., HOW MANY*	23. INTERVALS DRILLED BY	ROTARY TOOLS	CABLE TOOLS
7690'	7650'	2	→	0-7690'	

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)*
4080' - 4096' w/4SPF

25. WAS DIRECTIONAL SURVEY MADE: No

26. TYPE ELECTRIC AND OTHER LOGS RUN
DIL-SP, Den-Neu, Sonic

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# J-55	359'	12 1/4"	See Attached 340SX	
5 1/2"	17#,N-80,J-55	7689'	7 7/8"	205SX	
	Upper DV @	3333'			
	Lower DV @	5831'			

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)

30. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)
2 3/8"	7460'	4116'

31. PERFORATION RECORD (Interval, size and number)
4080' - 4096'
w/4 SPF

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DIST. 3

32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
4080'-4096'	107 BBLS 30 PPG Gel; 173 MCF N2; w/101,400# 20/40 Arizona Sand

33.* PRODUCTION

DATE FIRST PRODUCTION	PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump)	WELL STATUS (Producing or shut-in)
	Annular Casing Flow	Shut-in

DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD →	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO
3/27/93	24 Hrs.	13/64"		0	171	0	

FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE →	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-API (CORR.)
	290					

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.)
Vented

TEST WITNESSED BY: Les Gimbel

35. LIST OF ATTACHMENTS
Cementing Record

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records

SIGNED Glen O. Papp TITLE Production Engineer DATE 4/2/93

ACCEPTED FOR RECORD
APR 09 1993
FARMINGTON DISTRICT OFFICE
BY

*(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.

GP/sl

NMOCD

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.
Fruitland	2897'	3092'	Coal, Gas
Pictured Cliffs	3092'	3248'	SS, Gas, 10-16% Ø
Chacra SS	4020'	4250'	SS, Gas, 11% Ø
Cliff House	4800'	4926'	SS, GAs, 12% Ø
Menefee	4926'	5338'	Coal/SS, Gas
Pt. Lookout	5338'	5714'	SS, Gas, 8% Ø
Tocito SS	6882'	6892'	SS, Gas/Oil, tt, slty
Graneros SS	7338'	7458'	SS, Gas, 8% Ø
Dakota	7469'	7598'	SS, Gas, 7% Ø

38. GEOLOGIC MARKERS

NAME	TOP MEAS. DEPTH	TOP TRUE VERT. DEP
Ojo Alamo	2246'	2246'
Kirtland	2539'	2539'
Fruitland	2897'	2897'
Pictured Cliffs	3092'	3092'
Lewis	3248'	3248'
Chacra SS	4020'	4020'
Cliff House	4800'	4800'
Menefee	4926'	4926'
Pt. Lookout	5338'	5338'
Mancos	5714'	5714'
Gallup	6321'	6321'
Tocito SS	6882'	6882'
Greenhorn	7238'	7238'
Graneros	7305'	7305'
Dakota	7469'	7469'
Burro Canyon	7598'	7598'

LEASE NAME & NO.:	RINCON UNIT #135E
API NO.:	30-039-25225
STATE OIL & GAS LEASE NO.:	SF-079364
UNIT LETTER:	D SEC. 29-T27N-R6W

CEMENTING REPORT

SURFACE CSG: 240 SX CL "B"

PRODUCTION CSG:

CEMENTED IN 3 STAGES:

1ST STAGE; 550 SX 50-50-4 + 2 TAILED W/ 150 SX PREM CMT
(GOOD CIRCULATION THROUGHOUT STAGE 1)

2ND STAGE; 433 SX 50-50-4 + 4 TAILED W/ 60 SX PERM CMT
(CIRCULATED WHILE WOC)

3RD STAGE; 433 SX CL "B" + 3& BJA2 + 4
TAILED W/ 431 SX 50-50-4 + 4
(GOOD CIRCULATION THROUGHOUT ALL STAGES)

SQUEEZED CHACRA: 4095'-96' W/4 SPF
150 SX CL "B" NEAT + 50 SX CL "B" (SPOTTED IN CSG.)

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
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APPLICATION FOR MULTIPLE COMPLETION

Operator	Address
Union Oil Company of California dba Unocal	3300 N. Butler, Suite 200, Farmington, N.M. 87

Lease	Well No.	Unit Ltr. - Sec - Twp - Rge	County
Rincon Unit	#135E	D Sec. 29-T27N-R6W	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	Otero Chacra		Basin Dakota
b. Top and Bottom of Pay Section (Perforations)	4080'-4096'		7338'-7596'
c. Type of production (Oil or Gas)	Gas		Gas
d. Method of Production (Flowing or Artificial Lift)	Flowing		Flowing
e. Daily Production ☐ Actual ☐ Estimated Oil Bbls. Gas MCF Water Bbls.	0 BOPD 171 MCF/D 0 BWPD		0 BOPD 1398 MCF/D 32 BWPD

2. The following must be attached:
   a. 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.
   b. 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.
   c. 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 Glen E. Papp

Printed Name & Title Glen Papp-Production Engineer

Date 4/2/93 Telephone 505-326-7600

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 applicaiton for approval of the same should be filed simultaneously with this application.

FILING INSTRUCTIONS:

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

GP/sl

STATE OF NEW MEXICO
ENERGY and MINERALS DEPARTMENT

This form is not to be used for reporting packer leakage tests in Southeast New Mexico

OIL CONSERVATION DIVISION

Revised 10/01/78

NORTHWEST NEW MEXICO PACKER-LEAKAGE TEST

Operator UNION OIL COMPANY OF CALIFORNIA DBA UNOCAL Lease RINCON UNIT Well No. #135E

Location of Well: Unit D Sec. 29 Twp. 27N Rge. 6W County RIO ARRIBA

	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	CHACRA	GAS	FLOW	ANNULUS
Lower Completion	DAKOTA	GAS	FLOW	TUBING

PRE-FLOW SHUT-IN PRESSURE DATA

	Hour, date shut-in	Length of time shut-in	SI press. psig	Stabilized? (Yes or No)
Upper Completion	08/14/94	3 DAYS	CSG. 1040	YES
Lower Completion	08/14/94	3 DAYS	TBG. 815	NO

FLOW TEST NO. 1

Commenced at (hour, date)* 08/17/94 8:35 AM Zone producing (Upper or Lower): LOWER

TIME (hour, date)	LAPSED TIME SINCE*	PRESSURE Upper Completion	PRESSURE Lower Completion	PROD. ZONE TEMP.	REMARKS
08/18/94	24 HRS	CSG 1040	TBG 155	62°	Q = 319 MCF/D
08/19/94	48 HRS	CSG 1040	TBG 125	62°	Q = 329 MCF/D
					NOTE: Upper zone is not
					first delivered.

Production rate during test

Oil: _____ BOPD based on _____ Bbls. in _____ Hours. _____ Grav. _____ GOR _____

Gas: _____ MCFPD; Tested thru (Orifice or Meter): _____

MID-TEST SHUT-IN PRESSURE DATA

	Hour, date shut-in	Length of time shut-in	SI press. psig	Stabilized? (Yes or No)
Upper Completion				
Lower Completion				

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(Continue on reverse side)

FLO .. TEST NO. 2

Commenced at (hour, date) **				Zone producing (Upper or Lower):	
TIME (hour, date)	LAPSED TIME SINCE **	PRESSURE		PROD. ZONE TEMP.	REMARKS
		Upper Completion	Lower Completion		

Production rate during test

Oil: _____ BOPD based on _____ Bbls. in _____ Hours. _____ Grav. _____ GOR _____

Gas: _____ MCFPD: Tested thru (Orifice or Meter): _____

Remarks: _____

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

Approved SEP - 2 1994 19___
New Mexico Oil Conservation Division

By Charles Gholson

Title DEPUTY OIL & GAS INSPECTOR, DIST. #3

Operator UNION OIL COMPANY OF CALIFORNIA DBA UNOCAL

By Donald E. Linthicum

Title Production Technician

Date August 31, 1994

NORTHWEST NEW MEXICO PACKER LEAKAGE TEST INSTRUCTIONS

1. A packer leakage test shall be commenced on each multiply completed well within seven days after actual completion of the well, and annually thereafter as prescribed by the order authorizing the multiple completion. Such tests shall also be commenced on all multiple completions within seven days following recompletion and/or chemical or fracture treatment, and whenever remedial work has been done on a well during which the packer or the tubing have been disturbed. Tests shall also be taken at any time that communication is suspected or when requested by the Division.

2. At least 72 hours prior to the commencement of any packer leakage test, the operator shall notify the Division in writing of the exact time the test is to be commenced. Offset operators shall also be so notified.

3. The packer leakage test shall commence when both zones of the dual completion are shut-in for pressure stabilization. Both zones shall remain shut-in until the well-head pressure in each has stabilized, provided however, that they need not remain shut-in more than seven days.

4. For Flow Test No. 1, one zone of the dual completion shall be produced at the normal rate of production while the other zone remains shut-in. Such test shall be continued for seven days in the case of a gas well and for 24 hours in the case of an oil well. Note: if, on an initial packer leakage test, a gas well is being flowed to the atmosphere due to the lack of a pipeline connection the flow period shall be three hours.

5. Following completion of Flow Test No. 1, the well shall again be shut-in, in accordance with Paragraph 3 above.

6. Flow Test No. 2 shall be conducted even though no leak was indicated during Flow Test No. 1. Procedure for Flow Test No. 2 is to be the same as for Flow Test No. 1 except that the previously produced zone shall remain shut-in while the zone which was previously shut-in is produced.

7. Pressures for gas-zone tests must be measured on each zone with a deadweight pressure gauge at time intervals as follows: 3 hours tests: immediately prior to the beginning of each flow-period, at fifteen-minute intervals during the first hour thereof, and at hourly intervals thereafter, including one pressure measurement immediately prior to the conclusion of each flow period. 7-day tests: immediately prior to the beginning of each flow period, at least one time during each flow period (at approximately the midway point) and immediately prior to the conclusion of each flow period. Other pressures may be taken as desired, or may be requested on wells which have previously shown questionable test data.

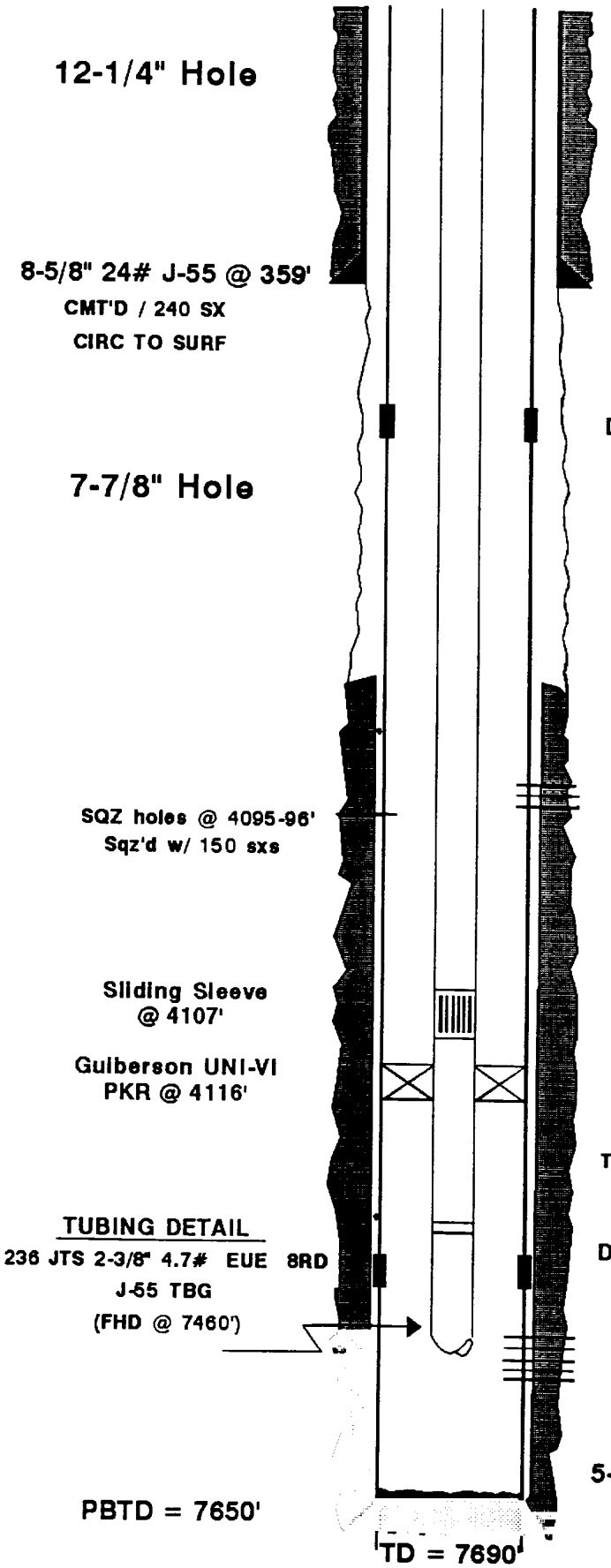
24-hour oil zone tests: all pressures, throughout the entire test, shall be continuously measured and recorded with recording pressure gauges the accuracy of which must be checked at least twice, once at the beginning and once at the end of each test, with a deadweight pressure gauge. If a well is a gas-oil or an oil-gas dual completion, the recording gauge shall be required on the oil zone only, with deadweight pressures as required above being taken on the gas zone.

8. The results of the above-described tests shall be filed in triplicate within 15 days after completion of the test. Tests shall be filed with the Aztec District Office of the New Mexico Oil Conservation Division on Northwest New Mexico Packer Leakage Test Form Revised 10-01-78 with all deadweight pressures indicated thereon as well as the flowing temperatures (gas zones only) and gravity and GOR (oil zones only).

DEL/sk1

RINCON UNIT NO. 135-E

790' FNL, 790' FWL, SEC 29, T27N-R6W
RIO ARRIBA COUNTY, NM



12-1/4" Hole

8-5/8" 24# J-55 @ 359'
CMT'D / 240 SX
CIRC TO SURF

7-7/8" Hole

SQZ holes @ 4095-96'
Sqz'd w/ 150 sxs

Sliding Sleeve
@ 4107'

Gulberson UNI-VI
PKR @ 4116'

TUBING DETAIL
236 JTS 2-3/8" 4.7# EUE 8RD
J-55 TBG
(FHD @ 7460')

PBTD = 7650'

TD = 7690'

KB Datum 13' Above GL
Ground Elevation = 6583'

DV TOOL @ 3333'
Stage #3 CMT'D w/ 864 sxs

TOP of CMT @ 4050' by Cement Bond Log
after CMT Squeeze

CHACRA
4080-96' W/ 4 SPF

TOP of CMT @ 4500' by Cement Bond Log
after 3-Stage CMT Job on 5-1/2" String

DV TOOL @ 5833'
Stage #2 CMT'D w/ 493 sxs

DAKOTA
7338-60, 7370-92, 7468-90, 7510-54'
7578-96' W/ 4 SPF

5-1/2", 17# N-80 & J-55 @ 7689'
Stage #1 CMT'D w/ 700 sxs