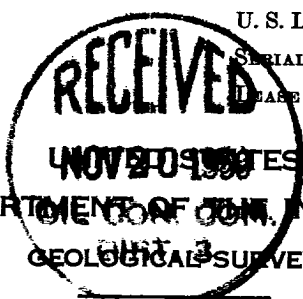


[illegible]

LOCATE WELL CORRECTLY

U. S. LAND OFFICE ~~New Mexico~~.....

SERIAL NUMBER -----

LEASE OR PERMIT TO PROSPECT

RECEIVED

U. S. GEOLOGICAL SURVEY
FARMINGTON, NEW MEXICO

LOG OF OIL OR GAS WELL

Company El Paso Natural Gas Company Address Box 997, Farmington, New Mexico
 Lessor or Tract Federal Field Wildcat State New Mexico
 Well No. 6-1-J Sec 6 T 24N R 1W Meridian N.M.P.M. County Rio Arriba
 Location 990 ft. ^(N)_(S) of N Line and 1739 ft. ^(E)_(W) of E Line of Section 6 Elevation 7470

The information given herewith is a complete and correct record of the well and all work done thereon so far as can be determined from all available records.

Signed _____ Original Signed R. G. MILLER

Date November 18, 1959 Title Petroleum Engineer

The summary on this page is for the condition of the well at above date

Commenced drilling ----- ~~9-16~~ -----, 19~~59~~ Finished drilling ----- ~~9-20~~ -----, 19~~59~~

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from 3527 to 3610 (4) No. 4, from _____ to _____
No. 2, from _____ to _____ No. 5, from _____ to _____
No. 3, from _____ to _____ No. 6, from _____ to _____

IMPORTANT WATER SANDS

No. 1, from LA 200-87-100-1100-1100 to No. 3 from LA 200-87-100-1100-1100
 No. 2, from LA 200-87-100-1100-1100 to No. 4 from LA 200-87-100-1100-1100
 2-51-22 **CASING RECORD**

Size casing	Weight per foot	Threads per inch	Make	Amount	Kind of shoe	Cut and pulled from	Perforated		Purpose
							From—	To—	
5/8	33	10	Make	Amount	Kind of shoe	Cut and pulled from	From—	To—	Purpose
1/2	24	10	Make	Amount	Kind of shoe	Cut and pulled from	From—	To—	Purpose
3/4	33	10	Make	Amount	Kind of shoe	Cut and pulled from	From—	To—	Purpose
1	44	10	Make	Amount	Kind of shoe	Cut and pulled from	From—	To—	Purpose
1 1/4	55	10	Make	Amount	Kind of shoe	Cut and pulled from	From—	To—	Purpose
1 1/2	66	10	Make	Amount	Kind of shoe	Cut and pulled from	From—	To—	Purpose
1 3/4	77	10	Make	Amount	Kind of shoe	Cut and pulled from	From—	To—	Purpose
2	88	10	Make	Amount	Kind of shoe	Cut and pulled from	From—	To—	Purpose
2 1/4	99	10	Make	Amount	Kind of shoe	Cut and pulled from	From—	To—	Purpose
2 1/2	110	10	Make	Amount	Kind of shoe	Cut and pulled from	From—	To—	Purpose
2 3/4	121	10	Make	Amount	Kind of shoe	Cut and pulled from	From—	To—	Purpose
3	132	10	Make	Amount	Kind of shoe	Cut and pulled from	From—	To—	Purpose
3 1/4	143	10	Make	Amount	Kind of shoe	Cut and pulled from	From—	To—	Purpose
3 1/2	154	10	Make	Amount	Kind of shoe	Cut and pulled from	From—	To—	Purpose
3 3/4	165	10	Make	Amount	Kind of shoe	Cut and pulled from	From—	To—	Purpose
4	176	10	Make	Amount	Kind of shoe	Cut and pulled from	From—	To—	Purpose
4 1/4	187	10	Make	Amount	Kind of shoe	Cut and pulled from	From—	To—	Purpose
4 1/2	198	10	Make	Amount	Kind of shoe	Cut and pulled from	From—	To—	Purpose
4 3/4	209	10	Make	Amount	Kind of shoe	Cut and pulled from	From—	To—	Purpose
5	220	10	Make	Amount	Kind of shoe	Cut and pulled from	From—	To—	Purpose
5 1/4	231	10	Make	Amount	Kind of shoe	Cut and pulled from	From—	To—	Purpose
5 1/2	242	10	Make	Amount	Kind of shoe	Cut and pulled from	From—	To—	Purpose
5 3/4	253	10	Make	Amount	Kind of shoe	Cut and pulled from	From—	To—	Purpose
6	264	10	Make	Amount	Kind of shoe	Cut and pulled from	From—	To—	Purpose
6 1/4	275	10	Make	Amount	Kind of shoe	Cut and pulled from	From—	To—	Purpose
6 1/2	286	10	Make	Amount	Kind of shoe	Cut and pulled from	From—	To—	Purpose
6 3/4	297	10	Make	Amount	Kind of shoe	Cut and pulled from	From—	To—	Purpose
7	308	10	Make	Amount	Kind of shoe	Cut and pulled from	From—	To—	Purpose
7 1/4	319	10	Make	Amount	Kind of shoe	Cut and pulled from	From—	To—	Purpose
7 1/2	330	10	Make	Amount	Kind of shoe	Cut and pulled from	From—	To—	Purpose
7 3/4	341	10	Make	Amount	Kind of shoe	Cut and pulled from	From—	To—	Purpose
8	352	10	Make	Amount	Kind of shoe	Cut and pulled from	From—	To—	Purpose
8 1/4	363	10	Make	Amount	Kind of shoe	Cut and pulled from	From—	To—	Purpose
8 1/2	374	10	Make	Amount	Kind of shoe	Cut and pulled from	From—	To—	Purpose
8 3/4	385	10	Make	Amount	Kind of shoe	Cut and pulled from	From—	To—	Purpose
9	396	10	Make	Amount	Kind of shoe	Cut and pulled from	From—	To—	Purpose
9 1/4	407	10	Make	Amount	Kind of shoe	Cut and pulled from	From—	To—	Purpose
9 1/2	418	10	Make	Amount	Kind of shoe	Cut and pulled from	From—	To—	Purpose
9 3/4	429	10	Make	Amount	Kind of shoe	Cut and pulled from	From—	To—	Purpose
10	440	10	Make	Amount	Kind of shoe	Cut and pulled from	From—	To—	Purpose
10 1/4	451	10	Make	Amount	Kind of shoe	Cut and pulled from	From—	To—	Purpose
10 1/2	462	10	Make	Amount	Kind of shoe	Cut and pulled from	From—	To—	Purpose
10 3/4	473	10	Make	Amount	Kind of shoe	Cut and pulled from	From—	To—	Purpose
11	484	10	Make	Amount	Kind of shoe	Cut and pulled from	From—	To—	Purpose
11 1/4	495	10	Make	Amount	Kind of shoe	Cut and pulled from	From—	To—	Purpose
11 1/2	506	10	Make	Amount	Kind of shoe	Cut and pulled from	From—	To—	Purpose
11 3/4	517	10	Make	Amount	Kind of shoe	Cut and pulled from	From—	To—	Purpose
12	528	10	Make	Amount	Kind of shoe	Cut and pulled from	From—	To—	Purpose
12 1/4	539	10	Make	Amount	Kind of shoe	Cut and pulled from	From—	To—	Purpose
12 1/2	550	10	Make	Amount	Kind of shoe	Cut and pulled from	From—	To—	Purpose
12 3/4	561	10	Make	Amount	Kind of shoe	Cut and pulled from	From—	To—	Purpose
13	572	10	Make	Amount	Kind of shoe	Cut and pulled from	From—	To—	Purpose
13 1/4	583	10	Make	Amount	Kind of shoe	Cut and pulled from	From—	To—	Purpose
13 1/2	594	10	Make	Amount	Kind of shoe	Cut and pulled from	From—	To—	Purpose
13 3/4	605	10	Make	Amount	Kind of shoe	Cut and pulled from	From—	To—	Purpose
14	616	10	Make	Amount	Kind of shoe	Cut and pulled from	From—	To—	Purpose
14 1/4	627	10	Make	Amount	Kind of shoe	Cut and pulled from	From—	To—	Purpose
14 1/2	638	10	Make	Amount	Kind of shoe	Cut and pulled from	From—	To—	Purpose
14 3/4	649	10	Make	Amount	Kind of shoe	Cut and pulled from	From—	To—	Purpose
15	660	10	Make	Amount	Kind of shoe	Cut and pulled from	From—	To—	Purpose
15 1/4	671	10	Make	Amount	Kind of shoe	Cut and pulled from	From—	To—	Purpose
15 1/2	682	10	Make	Amount	Kind of shoe	Cut and pulled from	From—	To—	Purpose
15 3/4	693	10	Make	Amount	Kind of shoe	Cut and pulled from	From—	To—	Purpose
16	704	10	Make	Amount	Kind of shoe	Cut and pulled from	From—	To—	Purpose
16 1/4	715	10	Make	Amount	Kind of shoe	Cut and pulled from	From—	To—	Purpose
16 1/2	726	10	Make	Amount	Kind of shoe	Cut and pulled from	From—	To—	Purpose
16 3/4	737	10	Make	Amount	Kind of shoe	Cut and pulled from	From—	To—	Purpose
17	748	10	Make	Amount	Kind of shoe	Cut and pulled from	From—	To—	Purpose
17 1/4	759	10	Make	Amount	Kind of shoe	Cut and pulled from	From—	To—	Purpose
17 1/2	770	10	Make	Amount	Kind of shoe	Cut and pulled from	From—	To—	Purpose
17 3/4	781	10	Make	Amount	Kind of shoe	Cut and pulled from	From—	To—	Purpose
18	792	10	Make	Amount	Kind of shoe	Cut and pulled from	From—	To—	Purpose
18 1/4	803	10	Make	Amount	Kind of shoe	Cut and pulled from	From—	To—	Purpose
18 1/2	814	10	Make	Amount	Kind of shoe	Cut and pulled from	From—	To—	Purpose
18 3/4	825	10	Make	Amount	Kind of shoe	Cut and pulled from	From—	To—	Purpose
19	836	10	Make	Amount	Kind of shoe	Cut and pulled from	From—	To—	Purpose
19 1/4	847	10	Make	Amount	Kind of shoe	Cut and pulled from	From—	To—	Purpose
19 1/2	858	10	Make	Amount	Kind of shoe	Cut and pulled from	From—	To—	Purpose
19 3/4	869	10	Make	Amount	Kind of shoe	Cut and pulled from	From—	To—	Purpose
20	880	10	Make	Amount	Kind of shoe	Cut and pulled from	From—	To—	Purpose
20 1/4	891	10	Make	Amount	Kind of shoe	Cut and pulled from	From—	To—	Purpose
20 1/2	902	10	Make	Amount	Kind of shoe	Cut and pulled from	From—	To—	Purpose
20 3/4	913	10	Make	Amount	Kind of shoe	Cut and pulled from	From—	To—	Purpose
21	924	10	Make	Amount	Kind of shoe	Cut and pulled from	From—	To—	Purpose
21 1/4	935	10	Make	Amount	Kind of shoe	Cut and pulled from	From—	To—	Purpose
21 1/2	946	10	Make	Amount	Kind of shoe	Cut and pulled from	From—	To—	Purpose
21 3/4	957	10	Make	Amount	Kind of shoe	Cut and pulled from	From—	To—	Purpose
22	968	10	Make	Amount	Kind of shoe	Cut and pulled from	From—	To—	Purpose
22 1/4	979	10	Make	Amount	Kind of shoe	Cut and pulled from	From—	To—	Purpose
22 1/2	990	10	Make	Amount	Kind of shoe	Cut and pulled from	From—	To—	Purpose
22 3/4	1001	10	Make	Amount	Kind of shoe	Cut and pulled from	From—	To—	Purpose
23	1012	10	Make	Amount	Kind of shoe	Cut and pulled from	From—	To—	Purpose
23 1/4	1023	10	Make	Amount	Kind of shoe	Cut and pulled from	From—	To—	Purpose
23 1/2	1034	10	Make	Amount	Kind of shoe	Cut and pulled from	From—	To—	Purpose
23 3/4	1045	10	Make	Amount	Kind of shoe	Cut and pulled from	From—	To—	Purpose
24	1056	10	Make	Amount	Kind of shoe	Cut and pulled from	From—	To—	Purpose
24 1/4	1067	10	Make	Amount	Kind of shoe	Cut and pulled from	From—	To—	Purpose
24 1/2	1078	10	Make	Amount	Kind of shoe	Cut and pulled from	From—	To—	Purpose
24 3/4	1089	10	Make	Amount	Kind of shoe	Cut and pulled from	From—	To—	Purpose
25	1100	10	Make	Amount	Kind of shoe	Cut and pulled from	From—	To—	Purpose
25 1/4	1111	10	Make	Amount	Kind of shoe	Cut and pulled from	From—	To—	Purpose
25 1/2	1122	10	Make	Amount	Kind of shoe	Cut and pulled from	From—	To—	Purpose
25 3/4	1133	10	Make	Amount	Kind of shoe	Cut and pulled from	From—	To—	Purpose
26	1144	10	Make	Amount	Kind of shoe	Cut and pulled from	From—	To—	Purpose
26 1/4	1155	10	Make	Amount	Kind of shoe	Cut and pulled from	From—	To—	Purpose
26 1/2	1166	10	Make	Amount	Kind of shoe	Cut and pulled from	From—	To—	Purpose
26 3/4	1177	10	Make	Amount	Kind of shoe	Cut and pulled from	From—	To—	Purpose
27	1188	10	Make	Amount	Kind of shoe	Cut and pulled from	From—	To—	Purpose
27 1/4	1199	10	Make	Amount	Kind of shoe	Cut and pulled from	From—	To—	Purpose
27 1/2	1210	10	Make	Amount	Kind of shoe	Cut and pulled from	From—	To—	Purpose
27 3/4	1221	10	Make	Amount	Kind of shoe	Cut and pulled from	From—	To—	Purpose
28	1232	10	Make	Amount	Kind of shoe	Cut and pulled from	From—	To—	Purpose
28 1/4	1243	10	Make	Amount	Kind of shoe	Cut and pulled from	From—	To—	Purpose
28 1/2	1254	10	Make	Amount	Kind of shoe	Cut and pulled from	From—	To—	Purpose
28 3/4	1265	10	Make	Amount	Kind of shoe	Cut and pulled from	From—	To—	Purpose
29	1276	10	Make	Amount	Kind of shoe	Cut and pulled from	From—	To—	Purpose
29 1/4	1287	10	Make	Amount	Kind of shoe	Cut and pulled from	From—	To—	Purpose
29 1/2	1298	10	Make	Amount	Kind of shoe	Cut and pulled from	From—	To—	Purpose
29 3/4	1309	10	Make	Amount	Kind of shoe	Cut and pulled from	From—	To—	Purpose
30	1320	10	Make	Amount	Kind of shoe	Cut and pulled from	From—	To—	Purpose
30 1/4	1331	10	Make	Amount	Kind of shoe	Cut and pulled from	From—	To—	Purpose
30 1/2	1342	10	Make	Amount	Kind of shoe	Cut and pulled from	From—	To—	Purpose
30 3/4	1353	10	Make	Amount	Kind of shoe	Cut and pulled from	From—	To—	Purpose
31	1364	10	Make	Amount	Kind of shoe	Cut and pulled from	From—	To—	Purpose
31 1/4	1375	10	Make	Amount	Kind of shoe	Cut and pulled from	From—	To—	Purpose
31 1/2	1386	10	Make	Amount	Kind of shoe	Cut and pulled from	From—	To—	Purpose
31 3/4	1397	10	Make	Amount	Kind of shoe	Cut and pulled from	From—	To—	Purpose
32	1408	10	Make	Amount	Kind of shoe	Cut and pulled from	From—	To—	Purpose
32 1/4	1419	10	Make	Amount	Kind of shoe	Cut and pulled from	From—	To—	Purpose
32 1/2	1430	10	Make	Amount	Kind of shoe	Cut and pulled from	From—	To—	Purpose
32 3/4	1441	10	Make	Amount	Kind of shoe	Cut and pulled from	From—	To—	Purpose
33	1452	10	Make	Amount	Kind of shoe	Cut and pulled from	From—	To—	Purpose
33 1/4	1463	10	Make	Amount	Kind of shoe	Cut and pulled from	From—	To—	Purpose
33 1/2	1474	10	Make	Amount	Kind of shoe	Cut and pulled from	From—	To—	Purpose
33 3/4	1485	10	Make	Amount	Kind of shoe	Cut and pulled from	From—	To—	Purpose
34	1496	10	Make	Amount	Kind of shoe	Cut and pulled from	From—	To—	Purpose
34 1/4	1507	10	Make	Amount	Kind of shoe	Cut and pulled from	From—	To—	Purpose
34 1/2	1518	10	Make	Amount	Kind of shoe	Cut and pulled from	From—	To—	Purpose
34 3/4	1529	10	Make	Amount	Kind of shoe	Cut and pulled from	From—	To—	Purpose
35	1540	10	Make	Amount	Kind of shoe	Cut and pulled from	From—	To—	Purpose
35 1/4	1551	10	Make	Amount	Kind of shoe	Cut and pulled from	From—	To—	Purpose
35 1/2	1562	10	Make	Amount	Kind of shoe	Cut and pulled from	From—	To—	Purpose
35 3/4	1573	10	Make	Amount	Kind of shoe	Cut and pulled from	From—	To—	Purpose
36	1584	10	Make	Amount	Kind of shoe	Cut and pulled from	From—	To—	Purpose
36 1/4	1595	10	Make	Amount	Kind of shoe	Cut and pulled from	From—	To—	Purpose
36 1/2	1606	10	Make	Amount	Kind of shoe	Cut and pulled from	From—	To—	Purpose
36 3/4	1617	10	Make	Amount	Kind of shoe	Cut and pulled from	From—	To—	Purpose
37	1628	10	Make	Amount	Kind of shoe	Cut and pulled from	From—	To—	Purpose
37 1/4	1639	10	Make	Amount	Kind of shoe	Cut and pulled from	From—	To—	Purpose
37 1/2	1650	10	Make	Amount	Kind of shoe	Cut and pulled from	From—	To—	Purpose
37 3/4	1661	10	Make	Amount	Kind of shoe	Cut and pulled from	From—	To—	Purpose
38	1672	10	Make	Amount	Kind of shoe	Cut and pulled from	From—	To—	Purpose
38 1/4	1683	10	Make	Amount	Kind of shoe	Cut and pulled from	From—	To—	Purpose
38 1/2	1694	10	Make	Amount	Kind of shoe	Cut and pulled from	From—	To—	Purpose
38 3/4	1705	10	Make	Amount	Kind of shoe	Cut and pulled from	From—	To—	Purpose
39	1716	10	Make	Amount	Kind of shoe	Cut and pulled from	From—	To—	Purpose
39 1/4	1727	10	Make	Amount	Kind of shoe	Cut and pulled from	From—	To—	Purpose
39 1/2	1738	10	Make	Amount	Kind of shoe	Cut and pulled from	From—	To—	Purpose
39 3/4	1749	10	Make	Amount	Kind of shoe	Cut and pulled from	From—	To—	Purpose
40</									

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
5/8	129	97	Circulated		
1/2	3613	100	Single Stage		

PLUGS AND ADAPTERS

Heaving plug—Material ----- Length ----- Depth set -----
Adapters—Material ----- Size -----

SHOOTING RECORD

Size	Shell used	Explosive used	Quantity	Date	Depth shot	Depth cleaned out
			See Well History			

TOOLS USED

Rotary tools were used from _____ feet to _____ feet, and from _____ feet to _____ feet
Cable tools were used from _____ feet to _____ feet, and from _____ feet to _____ feet

DATES

-----, 19-----
 10-3 59
 The production for the first 24 hours was ----- barrels of fluid of which ----- % was oil; ----- %
 emulsion: ----- % water; and ----- % sediment. Gravity. °Bé. -----

If gas well, cu. ft. per 24 hours 648,000 Gallons gasoline per 1,000 cu. ft. of gas _____

Rock pressure, lbs. per sq. in. 941 **A.O.F. = 683 MCF/D**

EMPLOYEES

	_____, Driller		_____, Driller
	_____, Driller		_____, Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	3250	3250	Tan to gry cr-grn ss interbedded w/gry sh.
3250	3400	150	Ojo Alamo ss. White cr-grn s.
3400	3450	50	Kirtland form. Gry sh interbedded w/tight gry fine-grn ss.
3450	3527	77	Fruitland form. Gry carb sh, scattered coals, coals and gry, tight, fine-grn ss.
3527	3610	83	Pictured Cliffs form. Gry, fine-grn, tight, varicolored soft ss.
3610	3614	4	Lewis formation. Gry to white dense sh w/silty to shaly ss breaks.

FOKINVLION RECORD-COMPILED

RECEIVED
NOV 20 1954
U.S. DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
WASHINGTON, D.C.

DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

LOCATE WELL CORRECTLY

A blank sheet of graph paper with a grid pattern. The grid consists of 10 columns and 8 rows of squares. A small dark mark or smudge is visible near the top left corner, approximately at the intersection of the second column from the left and the eighth row from the bottom.

The information given herewith is a complete and correct record of the well and all work done thereon, as far as can be determined from all available records. Original signed by the well owner.

Well No. 4-1-5 Sec. 3, T. 14 N., R. 14 W., of 1 line and 1/2 line of section 6 of Township 14 N., Range 14 W., County of Lincoln, State of Nebraska.

Lesson or Tract Record Field with State New Mexico

Company of 1420 Natural Gas Company Address 1420 1/2 N. 14th St., Lincoln, Neb. 68505

Commenced drilling _____, 19____
Finished drilling _____, 19____
The summary on this page is for the condition of the well at above date.
Date _____
Title _____

OIL OR GAS SANDS OR ZONES

(G) and stores (I):

No. 1, from	to	No. 1	No. 1, from
No. 2, from	to		No. 2, from
No. 3, from	to		No. 3, from
No. 4, from	to		No. 4, from

6-27-59 C.O.D. 3580. S. M. - 3580. 3580-98 (2 D/T.) w/29, 25 gallons water, 35,000 sand. Flushed
w/40% gal. water. I.W. 35.1 mm. H.M. 4.0 mm. Dr. 3500#, NW 3500#, tr.
pr. 500-650-150-1100-1400#. Drilled 4 sets of 10 balls and 1 set
of 5 balls for 5 stages. Spotted 200 gal. MCW before perf. Used
1% calcium chloride in 11% water.

Case No.	Case Name	Threats per inch	Amount	Kind of shoe	Cut and pointed from	Perforated	Purpose
10	10	10	10	10	10	10	10

HISTORY OF OIL OR GAS WELL

U. S. GOVERNMENT PRINTING OFFICE

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Year	Number sacks of cement	Method used	Kind of earth	Amount of road used
1912	100	Hand	Hand	100
1913	100	Hand	Hand	100

020039 071009c

Time	Shots used	Explosive used	Quantity	Date	Location	Depth cleared (m)
					SEA WALL H. 25002	

TOOLS USED

test	to test	most basic test	test to	most basic test	test to	most basic test
test	to test	most basic test	test to	most basic test	test to	most basic test

DATES

It was well, cu. ft. per 24 hours Gallons gasoline per 1,000 cu. ft. of gas Gravity, °Bé.	The production for the first 24 hours was ° water; and ° sediment	But no production ° was oil:
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EMPLOYEES

Driller	Driller
Driller	Driller

FORMATION RECORD

FROM-	TO-	TOTAL FEET	FORMATION
0	3500	3500	Iron to top of - as interbedded w/ clay ss.
3500	3600	100	0 to 1000 ss. - thin or - gr. ss.
3600	3700	100	Hardening form. Clay as interbedded w/ fine-gr. ss.
3700	3800	100	fine-gr. ss.
3800	3900	100	Prismatic form. Clay ss. scattered coarse, coarse and clay, - gr. ss.
3900	4000	100	Prismatic form. Clay, fine-gr. ss. - gr. ss.
4000	4100	100	varicolored ss. as
4100	4200	100	lawie limestone. Clay to white dense ss w/ quartz to shell as fossils.

FORMATION RECORD—Continued