

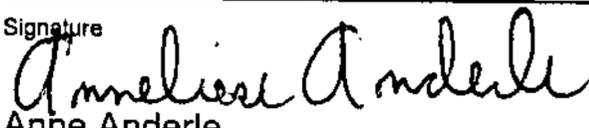
RESOURCES AGENCY OF CALIFORNIA
DEPARTMENT OF CONSERVATION
DIVISION OF OIL, GAS, AND GEOTHERMAL RESOURCES

REPORT OF PROPERTY AND WELL TRANSFER

Field or County <p style="text-align: center;">WILMINGTON</p>	District District 1 (Cypress, California)
Former owner <p style="text-align: center;">Cooper & Brain-Brea</p>	Date November 30, 2005

Well Name	API Number	Section Township Range
See Attached list	See Attached list	See Attached list
For complete list of wells see operator file (C8100) Cooper & Brain, Inc.		

Description of the land upon which the well (s) is (are) located. <p style="text-align: center;">See attached</p>			
Date of transfer 11/29/2005	New owner Cooper & Brain, Inc. (C8100)	Type of organization Corp.	
	Address: P.O. Box 1177 Wilmington, CA 90748	Telephone (310) 834-4411	
Reported by	OG30A received 8/26/2005 and signed by both parties. Remaining docs received 11/29/2005		
Confirmed by	Same as above		
New operator new status PA	Designation of Agent Ed Hanley, Agent		
Old operator new status AB	Remarks For further details see operator file (C8100) Cooper & Brain, Inc.		

OPERATOR STATUS ABBREVIATIONS	Deputy Supervisor <p style="text-align: center;">R. K. Baker</p>	Signature  Anne Anderle, Operations Engineer					
PA - Producing Active							
NPA - No potential, Active							
PI - Potential Inactive							
NPI - No potential, Inactive							
AB - Abandoned or No More Wells							
cc: Update; Envir Desk (2); File Conservation Committee Harold W. Bertholf, Inc. L.A. County Assessors WellStats-HQS, Sacramento WellStats-Cypress, District 1	FORM AND RECORD CHECK LIST						
		Form or Record	Initials	Date	Form or Record	Initials	Date
		Form OGD121	<i>CB</i>	11-30-05	Map and Book		
		Operator Card	<i>CB</i>	11-30-05	Notice cancellations	<i>N/A</i>	11-30-05
		Well Records	<i>CB</i>	12-1-05	Bond Status	<i>CB</i>	11-30-05
	Log Records	<i>CB</i>	12-1-05	EDP	<i>CB</i>	12-1-05	
	Production Reports	<i>N/A</i>	11-30-05	Data Base	<i>CB</i>	12-1-05	

RESOURCES AGENCY OF CALIFORNIA
DEPARTMENT OF CONSERVATION
DIVISION OF OIL AND GAS

REPORT OF PROPERTY AND WELL TRANSFER

Field or county Wilmington		District 1
Former owner DECALTA INTERNATIONAL CORP.		Date May 16, 1990
Name and location of well(s)		
"Watson A" 1' 037-05053	Sec. 28-4S-13W	"Watson B" 1' 037-05057 Sec. 28-4S-13W
" 2' " 05054	29-4S-13W	" 2' " 21534 28-4S-13W
" 3' " 05055	29-4S-13W	" 3' " 21658 28-4S-13W
" 4' " 04609	28-4S-13W	" 4' " 21659 28-4S-13W
" 5' " 23092	28-4S-13W	" 5' " 22256 28-4S-13W
" 6' " 23151	28-4S-13W	" 6' " 22676 28-4S-13W
" 8' " 05056	28-4S-13W	" 7' " 23366 28-4S-13W
Description of the land upon which the well(s) is (are) located See above.		
Date of transfer, sale, assignment, conveyance, or exchange May 1, 1990	New owner COOPER & BRAIN - BREA Address 655 E. "D" Street WILMINGTON CA 90744	Type of organization Partnership Telephone No. 213/834-4411
Reported by OG30A dated May 2, 1990 signed by both parties.		
Confirmed by See above.		
New operator new status (status abbreviation) PA	Request designation of agent Ed Hanley, P.O. Box 1177, WILMINGTON, CA 90748 on file 1-1-84.	
Old operator new status (status abbreviation) Ab	Remarks See Operator File under Cooper & Brain - Brea for transfer details.	

OPERATOR STATUS ABBREVIATIONS	Deputy Supervisor (For) R. K. Baker	Signature <i>David Sanchez</i> David Sanchez, Operations Eng.
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OPERATOR STATUS ABBREVIATIONS	FORM AND RECORD CHECK LIST					
	Form or record	Initials	Date	Form or record	Initials	Date
PA - Producing Active						
NPA - No Potential, Active	Form OGD121			Map and book # 128	<i>gsh</i>	6-4-90
PI - Potential Inactive	Form OGD148			Notice to be cancelled		
NPI - No Potential, Inactive	New well cards			Bond status	<i>Decalta Co. per Brain document</i>	
Ab - Abandoned or No More Wells	Well records			EDP files	<i>[Signature]</i>	5-16-90
EDP Update Conservation Committee Dept. Oil Properties E. A. Assessor Envir. Unit Campbell-Taylor File	Electric logs					
	Production reports					

RESOURCES AGENCY OF CALIFORNIA
 DEPARTMENT OF CONSERVATION
 DIVISION OF OIL AND GAS

REPORT OF PROPERTY AND WELL TRANSFER

Field or County Torrance & Wilmington Fields District 1
 Former Owner: U. S. Natural Resources, Inc. Date 2-20-73
 Description of Property Attached list.

List of Wells Attached list.

Date of Transfer December 1, 1972
 New Owner: DECALTA INTERNATIONAL CORP.
 Address: 630 Sixth Ave. S.W., 8th Floor
 Calgary, Alberta, Canada
 Telephone No. (403) 269-5551

Type of Organization Corporation
 Reported by: John P. Del Favero, U.S. Natural Resources, Inc., letter of 1-31-73
 Confirmed by: A. H. Ross, Decalta International Corp., letter of 2-2-73
 New Operator New Status PA , Old Operator New Status Ab
 Request Designation of Agent Yes Remove Agent

Remarks:

ag
 cc: H.Q.
 Prod. Dept.
 Conservation Committee
 M. Jennison

W.L. Ingram

 Deputy Supervisor

	INITIALS	DATE
Form 121		
New Well Cards		
Well Records		
Electric Logs		
Production Reports		
Map and Book		
Form 148		
Notice to be cancelled		
Bond status		

LEGEND	
PA	Producing Active
NPA	Non Potential Active
PI	Potential Inactive
NPI	Non Potential Inactive
Ab	Abandoned or No More Wells

Ownership File

List of wells transferred 12-1-72 from U. S. Natural Resources, Inc., to Decalta International Corp., in Torrance and Wilmington Fields.

Torrance Field

API No. 037

Sec. 5-4S-14W SB B&M

"Redondo Improvement Co." 1

18044

"Simmons" 2, 11

18117, 18120

Sec. 6-4S-14W SB B&M

"Atascadero" 1

18094

"Calmore" 2

18097

"Dumas-Brown" 1

18098

"Dumas-Lewis" 3

18112

"M. & W." 1

18114

"Simmons" 1, 12, 14, 15, 26

18116, 18121, 18122, 18123, 18124

"Suzy-Q" 1, 2, 5

18126, 18127, 18128

"P. W. Willett" 1

06483

Wilmington Field

Sec. 28-4S-13W SB B&M

"Gifford" 1

05052

"Watson A" 1, 4, 8

05053, 04609, 05056

"Watson B" 1

05057

Sec. 29-4S-13W SB B&M

"Watson A" 2, 3

05054, 05055

Sec. 34-4S-13W SB B&M

"Watson C" 1

05058

Sec. 35-4S-13W SB B&M

No. 2600-1

05051

Name changed from U. S. NATURAL GAS CORPORATION to U.S.

NATURAL RESOURCES, INC., effective November 1, 1968.

Form 156, 11-29-68. See letter in ownership file.

STATE OF CALIFORNIA
DEPARTMENT OF CONSERVATION
DIVISION OF OIL AND GAS

REPORT ON PROPOSED CHANGE OF WELL DESIGNATION

830 North La Brea Avenue
Inglewood,

California 90302

May 21, 1965

Mr. Robert J. Fernandez
9601 Wilshire Boulevard
Beverly Hills, California
Agent for U. S. NATURAL GAS CORPORATION

Corrections Made as Follows:	By Whom
Form 114	
" 115	
" 121	
" 148	
Cards	
Production Reports	C. P. [Signature]
Well Records (Folders)	[Signature]
(Reports)	[Signature]
Field Maps 128 5-24-65	[Signature]
Map Book	[Signature]

DEAR SIR:

Your request dated May 17, 1965, relative to change in designation of well(s) in Sec. 28 and 29, T. 4 S., R. 13 W., S.D. B. & M., Wilmington field, Los Angeles County, District No. 1, has been received; and in accordance with Section 3203, Public Resources Code, reading in part as follows:

"* * * The number or designation by which any well heretofore drilled has been known, and the number or designation specified for any well in a notice filed as required by Section 3203, shall not be changed without first obtaining a written consent of the Supervisor."

the proposed change in designation is hereby authorized as follows:

Old Designation

New Designation

"Watson" 1

"Watson A" 1 Sec. 28 (NE Lomita & Wilm.)

"Watson" 2

"Watson A" 2 ✓ 29 ✓

"Watson" 3

"Watson A" 3 ✓ 29 ✓

ADS:ob

CC- Mr. E. R. Murray-Aaron
Prod. Dept.
Conservation Committee
Subsidence (DOG)

[Handwritten signature]

E. R. MURRAY-AARON
State Oil and Gas Supervisor

By *[Signature]*
Deputy Supervisor

File

U.S. NATURAL GAS CORPORATION

DIVISION OF OIL AND GAS
RECEIVED

9601 WILSHIRE BOULEVARD, BEVERLY HILLS, CALIFORNIA 90210 • TELEPHONE 878-5592 MAY 18 1965

INGLEWOOD, CALIFORNIA
May 17, 1965.

Division of Oil and Gas
830 North La Brea Avenue
Inglewood, California 90302

Attention: Naomi A. Peterson
Senior Account Clerk

Dear Madam:

Reference is made to your correspondence of May 12, 1965, requesting correct well designation within the Wilmington Field, County of Los Angeles.

Our files show we carry these leases with the following numbered wells:

1. Watson "A" Lease
well number 1, 2, 3, 4, 8. ✓
2. Watson "B" Lease
well number 1. ✓
3. Watson "C" Lease
well number 1. ✓
4. Gifford Lease ✓
well number 1.
5. 2600 Lease ✓
well number 1.

"Watson", 1, Sec. 28,
2 & 3, Sec. 29

The above descriptions will be carried as such on our monthly Oil, Water and Gas Production and Gas Disposition Reports.

Very truly yours,
U. S. NATURAL GAS CORPORATION

R. J. Fernandes
R. J. Fernandes
Vice President - Production

Noted 5-14-65

R.B.

RJF:tr

STATE OF CALIFORNIA
DEPARTMENT OF CONSERVATION
DIVISION OF OIL AND GAS

REPORT OF PROPERTY AND WELL TRANSFER

Field or County **Wilmington** District **1**
 Former Owner: **Kolan Chien Oil Corporation** Date **August 20, 1962**
 Description of Property **(See below) S. B. D. & H.**

List of Wells

Sec. 35-48-13N	2500-1
Sec. 23-48-13W	"Clifford" 1
	"Watson" 1
Sec. 23-48-13W	"Watson" 2
	"Watson" 3
Sec. 23-48-13W	"Watson A" 4
	"Watson A" 8
	"Watson B" 1
Sec. 34-48-13W	"Watson C" 1

All of the above wells are active.

Date of Transfer **August 1, 1962**
 New Owner: **U. S. Natural Gas Corporation**
 Address: **612 South Flower Street, Los Angeles 12, California**

Telephone No. **17, 9-2721**

Type of Organization **Corporation**
 Reported by: **H. E. Pallette for both operators (letter of August 23, 1962)**
 Confirmed by:
 New Operator New Status **PA**, Old Operator New Status **PA**
 Request designation of agent **Yes**

Remarks: **This is just a name change; there is no change in ownership.**

cc

cc Mr. E. R. Murray-Austin
Production Dept.
Conservation Comm.

Wm. C. Bieley
 Deputy Supervisor

	INITIALS	DATE
Form 121		
New Well Cards		
Well Records		
Electric Logs		
Production Reports		
Map and Book		
Form 148		
Notice to be cancelled		
Bond status		

LEGEND
PA—Producing Active
NPA—Non Potential Active
PI—Potential Inactive
NPI—Non Potential Inactive
Ab—Abandoned or No More Wells

STATE OF CALIFORNIA
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL AND GAS

REPORT OF PROPERTY AND WELL TRANSFER

Field or County **Wilmington** District **1**
Former Owner: **Donald Frankel, Operator** Date **June 12, 1961.**
Description of Property **Sec. 28, 29, 34, 35, T. 4 S., R. 13 W., S. B. B. & N.**

List of Wells

(NE. Wilmington & Lamita) "Watson" 1, "Watson A" 4, "Watson A" 8, "Watson B" 1, "Gifford" 1,
 (S.W. 28) Sec. 28, "Watson" 2, "Watson" 3, Sec. 29, "Watson C" 1, Sec. 34, and
 (NE. Droman & 27) 2600-1, Sec. 35. (N.W. Colton & S.P.A.A.)
 (NE. Gaylord & Judson) (S.W. Pac. Coast Hwy. & Term. Island Frwy.)
 ("Watson" 2 is idle; other wells are active)

Date of Transfer **June 1, 1961**
New Owner: **Bolsa Chica Oil Corporation**
Address: **612 South Flower St., Los Angeles 17, Calif.**

Telephone No. **MAdison 92261**

Type of Organization **Corporation**
Reported by: **Donald Frankel for both operators (Letters of June 1, 1961)**
Confirmed by:
New Operator New Status **PA**, Old Operator New Status **AB**
Request designation of agent **No**

Remarks:

eb
CC- Mr. E. H. Musser
Prod. Dept.
Conservation Committee
Subsidence (DOG)

	INITIALS	DATE
Form 121	✓ N.D.	6-13-61
New Well Cards	✓ H	
Well Records	✓ E.B.	6-12-61
Electric Logs	✓	
Production Reports	✓ C.C. P. - H. ent ✓	
Map and Book 12R	✓ S.C.	6-13-61
Form 148	✓ S.H.	6-13-61
Notice to be cancelled	✓ M	10/2/61

Walter C. Baul
Deputy Supervisor

LEGEND
PA—Producing Active
NPA—Non Potential Active
PI—Potential Inactive
NPI—Non Potential Inactive
Ab—Abandoned or No More Wells
NOTE—If Transfer Does Not Change Overall Status Enter "No Change"

BOLSA CHICA OIL CORPORATION

INCORPORATED IN DELAWARE

612 SOUTH FLOWER STREET
LOS ANGELES 17, CALIF.

RECEIVED BY MAIL

JUN 2 1961

JUN 2 1961

June 1, 1961

RECEIVED BY MAIL

Division of Oil and Gas
State of California
830 North LaBrea
Inglewood, California

Gentlemen:

This is to notify you that the following wells and leases in the Wilmington Field have of this date been purchased from Donald Frankel; and this Corporation will henceforth be the operator and owner thereof:

Watson "A" Lease, 28 - 4S - 13W - Wells #1, 2, 4, 8
29 - 4S - 13W - Well #3, 7, 2

Watson "B" Lease, 28 - 4S - 13W - Well #1 out 2, 4, 8

Watson "C" Lease, 34 - 4S - 13W - Well #1 out 2, 4, 8

Gifford Lease, 28 - 4S - 13W - Well #1 out 3, 14, 8, out

2600-1 Well, 35 - 4S - 13W out

Very truly yours,

BOLSA CHICA OIL CORPORATION

By Donald Frankel
Donald Frankel, President

MJD

RECEIVED JUN 2 1961
JUN 2 1961

DONALD FRANKEL

TELEPHONE 61115117

~~410 OFF NATIONAL BANK BUILDING~~
~~BEVERLY HILLS, CALIFORNIA~~
~~CRESTVIEW 4-5384~~

Suite 734 - 612 S. Flower St.
Los Angeles 17, Calif.
MAdison 9-2578

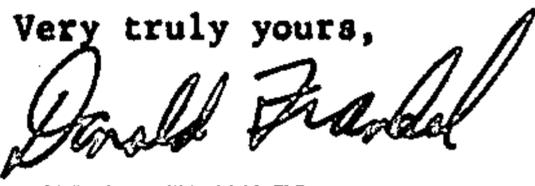
June 1, 1961

Division of Oil and Gas
State of California
830 North LaBrea
Inglewood, California

Gentlemen:

This is to notify you that the following wells and leases in the Wilmington Field, of which I have been the operator, have of this date been sold to Bolsa Chica Oil Corporation, 612 South Flower Street, Los Angeles 17, which will henceforth be the operator and owner thereof:

- Watson "A" Lease, 28 - 4S - 13W - Wells #1,2,4,8
29 - 4S - 13W - Well #3
- Watson "B" Lease, 28 - 4S - 13W - Well #1
- Watson "C" Lease, 34 - 4S - 13W - Well #1
- Gifford Lease, 28 - 4S - 12N - Well #1
- 2600-1 Well, 35 - 4S - 13W

Very truly yours,

DONALD FRANKEL

MJD

STATE OF CALIFORNIA
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL AND GAS

REPORT OF PROPERTY AND WELL TRANSFER

Field or County **Wilmington** District **1**
Former Owner: **Acro Oil Company** Date **January 24, 1957**
Description of Property **Sec. 28, T. 4 S., R. 13 W., S. B. B. & M.**

List of Wells **"Watson" 1**

Date of Transfer **December 31, 1956**
New Owner: **Donald Frankel, Operator**
Address: **Room 410, City National Bank Building, Beverly Hills, California**
Telephone No:

Type of Organization **Individual**
Reported by: **Acro Oil Company (Letter of December 31, 1956)**
Confirmed by: **Donald Frankel (Letter of December 31, 1956)**
New Operator New Status **PI**, Old Operator New Status **AB**
Request designation of agent for the following County. **No**

Remarks:

eb
CC- Mr E H Musser
Long Beach
Prod Dept
Conservation Committee

	INITIALS	DATE
Form 121	EB	1-24-57
New Well Cards		
Well Records	EB	1-24-57
Electric Logs <i>Missing</i>		
Production Reports	MJ	2-7-57
Map and Book <i>1/20 Wt</i>	EB	1-25-57
Form 148	EB	1-25-57
Notice to be cancelled	W	12/8/57

R. W. Kelling
Deputy Supervisor

LEGEND	
PA	Producing Active
NPA	Non Potential Active
PI	Potential Inactive
NPI	Non Potential Inactive
Ab	Abandoned or No More Wells
NOTE—If Transfer Does Not Change Overall Status Enter "No Change"	

E. H. MUSSER
State Oil and Gas Supervisor

GOODWIN J. KNIGHT
Governor

DEWITT NELSON
Director of Natural Resources



R. W. WALLING
Deputy

STATE OF CALIFORNIA
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL AND GAS

1015 WEST OLYMPIC BOULEVARD
LOS ANGELES 15, CALIFORNIA

JAN 20 1957

RECEIVED

January 17 1957

Mr Donald Frankel
404 North Roxbury Drive - Room 410
Beverly Hills California

Dear Sir

Thank you for your letters of December 11 and 31, 1956, concerning the transfer of J. W. McBride well No. "Watson" 2, Sec. 29, T. 4 S., R. 13 W., and Acro Oil Company well No. "Watson" 1, Sec. 28, T. 4 S., R. 13 W., S. B. B. & M., Wilmington field, to Donald Frankel, Frank Frankel and Harding S. Frankel on November 27 and December 31, 1956, respectively.

Will you please inform us as to the exact name under which you intend to operate these wells. This information may be submitted on the duplicate copy of this letter which is attached, sign and return to this office. Please also complete the enclosed questionnaire and return it with your reply.

Yours truly

R. W. Walling
R W WALLING

Deputy Supervisor

RW

eb

Note Address reply to attention of Mr R.G. Frame

1. Exact name of operator: Donald Frankel, Operator, Watson #1
Donald Frankel, Operator, Watson #2

1/21/57
Date

Donald Frankel

DIVISION OF OIL AND GAS
RECEIVED
JAN 9 1956
1000

December 31, 1956.

Division of Oil and Gas
1015 West Olympic Boulevard
Los Angeles 15, California

Re: Watson #1 Well - Los Angeles
County - Wilmington Area

Gentlemen:

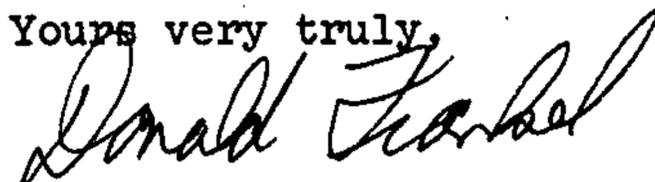
This is to advise you of the sale of the Watson #1 Well formerly owned by Acro Oil Company, a partnership, to Donald Frankel, Frank Frankel and Harding S. Frankel as to an undivided one-third interest each, effective December 31, 1956.

This was a producing well at the time of the sale.

The address of the present owners is now:

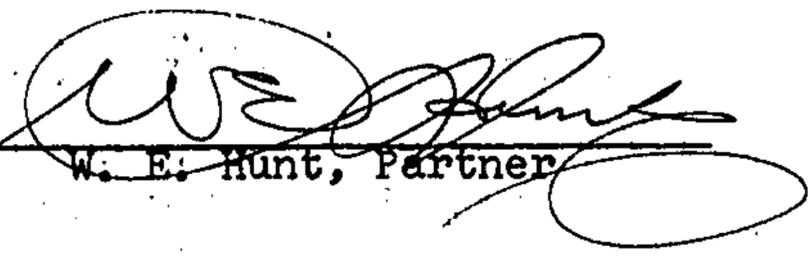
c/o Donald Frankel, Operator
Room 410
404 North Roxbury Drive
Beverly Hills, California.

Yours very truly,


Donald Frankel

The foregoing notification is hereby ratified and joined in by the undersigned:

ACRO OIL COMPANY, a partnership

By 
W. E. Hunt, Partner

DONALD FRANKEL

410 CITY NATIONAL BANK BUILDING
BEVERLY HILLS, CALIFORNIA
CRESTVIEW 4-5384
OIL AND GAS
RECEIVED

December 15, 1956

LOS ANGELES, CALIFORNIA

Division of Oil and Gas
1013 W. Olympic
Los Angeles, California

Gentlemen:

This is to advise that on November 26, 1956, I received and Oil and Gas Lease from Watson Land Company covering lands in the Northwest 1/4 of Section 28 and the Northeast 1/4 of Section 29, Township 4 South, Range 13 West, which is in the north end of the Wilmington Oil Field. On November 27, 1956, I purchased the J. W. McBride Watson #2, which previously was the Ranger Petroleum Corp. Watson #2. I have agreed to purchase the Acro Oil Company Watson #1, and papers transferring this well to me are in the process of being executed.

*Watson # 2
left under
McBride*

My representative in my operations in the area is W. S. Payne, Jr.. He will be calling upon your Department for information, and I would appreciate very much your furnishing him whatever information you have in your files regarding the two wells I have purchased and other wells drilled on this lease.

Very truly yours,

Donald Frankel
DONALD FRANKEL, Operator.

DF/sj

*OK
Payne*

SUBMIT IN DUPLICATE
STATE OF CALIFORNIA
DEPARTMENT OF NATURAL RESOURCES

DIVISION OF OIL AND GAS

History of Oil or Gas Well

DIVISION OF OIL & GAS
RECEIVED
APR 24 1952
LOS ANGELES

OPERATOR Acro Oil Company FIELD Wilmington

Well No. Watson # 1, Sec. 28, T. 4 S, R. 13 W, S. B. & M.

Date April 22, 1952

Signed [Signature]
Title Controller
(President, Secretary or Agent)

It is of the greatest importance to have a complete history of the well. Use this form in reporting the history of all important operations at the well, together with the dates thereof, prior to the first production. Include in your report such information as size of hole drilled to cementing or landing depth of casings, number of sacks of cement used in the plugging, number of sacks or number of feet of cement drilled out of casing, depth at which cement plugs started, and depth at which hard cement encountered. If the well was dynamited, give date, size, position and number of shots. If plugs or bridges were put in to test for water, state kind of material used, position and results of pumping or bailing.

Date

Statement Attached

DRILL HISTORY OF ACRO COMPANY

WATSON #1

WILMINGTON OIL FIELD

DIVISION OF OIL & GAS
RECEIVED
APR 24 1952
LOS ANGELES

- OCTOBER 16 - Rigging Up.
- 17 - Rigging up and pulled rods.
- 18 - Ran in with drill pipe, found 20 feet of sand above the liner.
- 19 - Circulated out oil and changed to Aero - T Mud. Found top of liner at 3661 KB. Ran in with 143.39 feet of 2" tubing below 3614.55 feet of drill pipe circulated to bottom. Bottom of liner "Inside" 3782.5 feet KB. "Ran Cutter, made cut at 3694 feet.
- 20 - Pulled fish, ran in with Neilson washer - could not break circulation - pulled out. Ran in with cutter and made cut #2 at 3714 feet.
- 21 - Pulled fish, ran in and washed liner.
- 22 - Jarred on liner. Pulled out, made cut at 3755 feet and pulled out. Changed cutters, ran in with cutter and spear - pulled fish. Ran in, jarred on liner and pulled remaining fish. Laid down cutter and spear - made up 12" scraper.

Total 5" liner recovered "four pieces" equals 120.82 feet.

1st. "Including hanger" 34.53 feet.

2nd. Joint 21.25 feet.

3rd. Joint 42.04 feet.

4th. Joint 23.00 feet.

TOTAL 120.82 feet.

- 23 - Scraped hole from 3720 to 3780 feet. Circulated and pulled out. Made up Zublin tools - 67.09 feet overall. Tried building shoulders at the following depths: 3768 feet, 3772 feet, 3774 feet, 3776 feet. Pulled up

- October 23 - Con'td. to 3772 feet and began new shoulder "no circulation". Drilled 11 feet of hole. Pulled out to make connection, unable to find drain hole at 3772 feet. Grinding on fish at 3783 feet "9 feet of liner left in hole". Cut a total of 11 feet of drain hole.
- 24 - Pulled out and put on new curved pipe. Began drilling drain hole 3758 feet "no circulation". Shoulder built up immediately. Drilled from 3758 to 3788 feet. "50" feet of horizontal depth and 30 feet of vertical depth".
- 25 - Tried shoulder 3773 feet - lost two shoulders. Pulled up to 3748 feet and drilled to 3778 feet. "50 feet of horizontal depth and 30 feet of vertical depth". Pulled out and changed bits and pressure - tested tools. Ran into 3762 feet and started shoulder.
- 26 - Drilled drain hole from 3762 feet to 3792 feet "50 feet of horizontal depth and 30 feet of vertical depth". Started shoulder at 3753 feet and drilled hole to 3783 feet. "50 feet of horizontal depth and 30 feet of vertical depth". Laid down Zublin tools and picked up scraper. Scraped hole from 3770 feet to 3782 feet.

The following are the Zublin drain holes:

	DEPTH	LENGTH	HORIZONTAL	VERTICAL
1.	3772 Feet	11 Feet	3774 Feet	3783 Feet
2.	3758 Feet	50 Feet	3808 Feet	3788 Feet
3.	3748 Feet	50 Feet	3798 Feet	3778 Feet
4.	3762 Feet	50 Feet	3812 Feet	3792 Feet
5.	3753 Feet	50 Feet	3803 Feet	3783 Feet

ADD 5 FEET TO EACH DEPTH FOR ELOG DEPTH!

(Con'td.)

OCTOBER 27 - Pulled scraper. Ran in with gravel packing tools.

Began gravel packing operations at 4:00 A. M. .

Pumped in 96 cubic feet of 1/4" X 3/8" gravel. Top of gravel in 7 inch casing at 3670 feet. Maximum amount of gravel in 80 feet of 12 inch hole and 200 feet of 4-3/4" drain holes plus 50 feet of 7 inch casing is 98.5 cubic feet of gravel. Ran adapter at 3665 feet - bottom at 3674.80 feet. Changed Aero - T Mud at 19.0 gravity crude oil and laid down drill pipe and drill collars.

28 - Ran in 39 stands of 2 1/2" tubing including a 23.94 feet gas anchor. Bottom of gas anchor at 2488.36 feet.

Began tearing out at 8:00 A. M.

DIVISION OF OIL & GAS
RECEIVED
APR 24 1952
LOS ANGELES

PENETRATION IN FEET.

3720 3730 3740 3750 3760 3770 3780 3790 3800

10 20 30 40 50 10 20 30 40 50

NOTE
 All measurements on Drain Hole Windows are plus 5' to compensate for the difference in K.B. measurements between original well and the redrill.
 3748 - Redrill measurement
 5 - Difference in K.B. measurements
 3753 - Electric log measurements.

7" - 3723'

12" - HOLE

3753

3758

3763

3767

3777

9' of liner remaining in hole.
 Top - 3788'
 (E. Log)

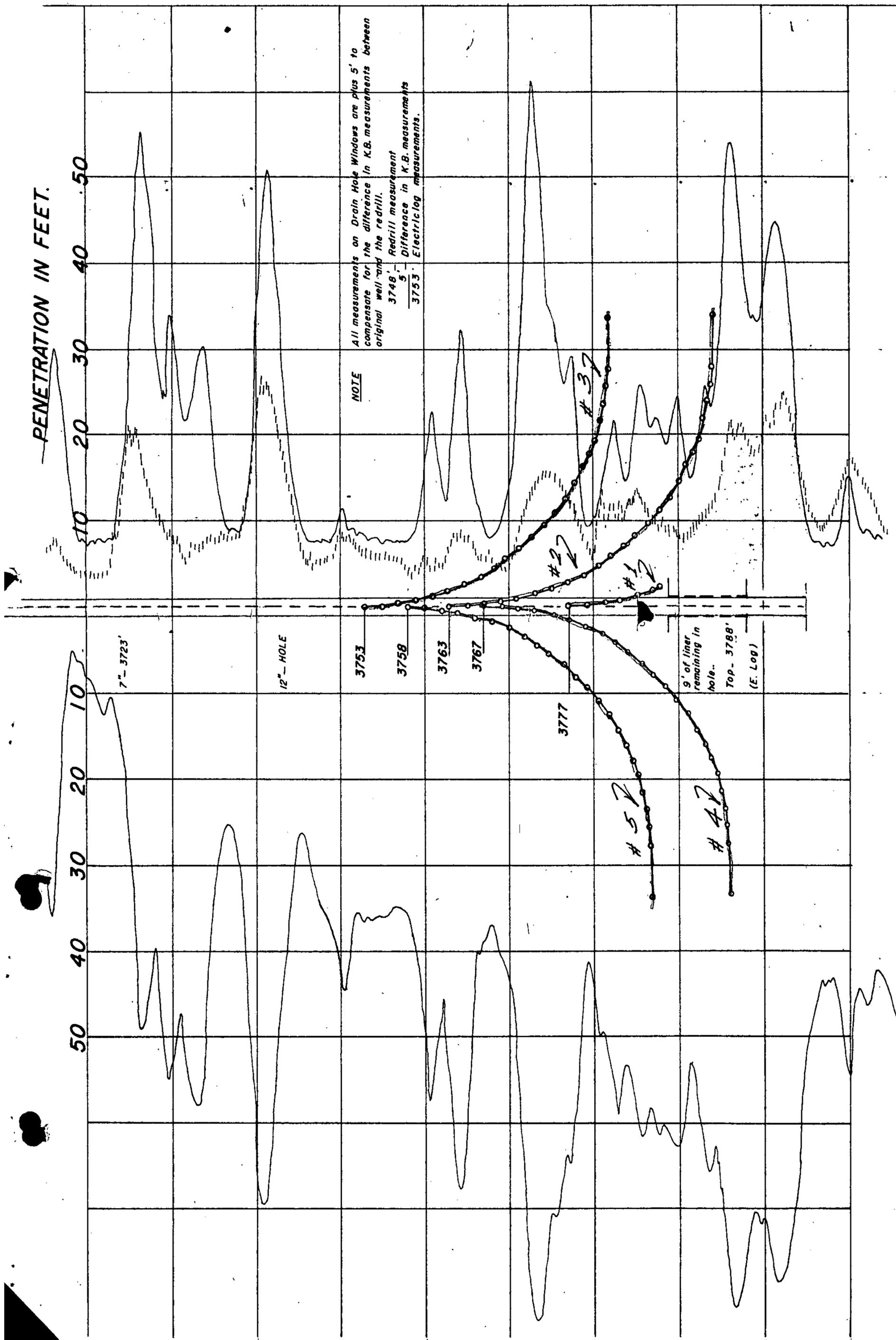
57

47

27

17

37



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STATE OF CALIFORNIA
DEPARTMENT OF NATURAL RESOURCES

DIVISION OF OIL AND GAS

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OCT 17 1951

Notice of Intention to Deepen, Redrill, Plug or Alter Casing in Well

LOS ANGELES

This notice must be given fifteen days before work begins when possible

Beverly Hills, Calif. October 16, 1951

DIVISION OF OIL AND GAS

MAP	MAP BOOK	CARDS	BOND	FORMS	
				114	121
<u>Los Angeles, Calif.</u>			<u>2023345</u>	<u>EB</u>	<u>EB</u>

In compliance with Section 3203, Chapter 93, Statutes of 1939, notice is hereby given that it is our intention to commence the work of deepening, redrilling, ~~plugging or altering~~ casing at well No. Watson #1

(Cross out unnecessary words)

28, Sec. 28, T. 4S, R. 13W, S. B. B. & M.
Wilmington Field, Los Angeles County.

The present condition of the well is as follows:

1. Complete casing record.

7" casing cemented at 3725' W.S.D.
129.48' of 5" liner. Lower 79.67' perforated.
50' of 16" conductor pipe, cemented.

2. Last produced September 15, 1951 28 14.8 10%
(Date) (Net Oil) (Gravity) (Cut)

The proposed work is as follows:

Pull liner, clean out and under-ream to 12".

Drill 4- 4 3/4" Zubelin drainage holes extending approximately 60'

Gravel pack with 1/4" x 3/8" gravel, using no liner. Top of gravel to be located about 50 feet up in the inside of 7" casing, using Nelson lead seal.

Place well back on production.

424 South Beverly Drive
Beverly Hills, California
Crestview 1-5763

ACRO OIL COMPANY

(Name of Operator)

By [Signature]

STATE OF CALIFORNIA
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL AND GAS

District 1

Date October 18 1951

REPORT OF PROPERTY AND WELL TRANSFER

Former Owner: **Wilmington Terminal Oil Co.**

Description and list of wells: **"Watson" 1**

Sec. **28**, T. **4 S.**, R. **13 W.**, S. B. B. & M., **Wilmington** field,

New Owner: **Acro Oil Company**; date acquired: **October 15, 1951**
Address: **424 South Beverly Drive, Beverly Hills, Calif.**

Request for designation of agent for **Los Angeles** County should be sent to:
Name: **Acro Oil Company**
Address: **(See above)**

Reported by: **O. F. Darling for Wilmington Terminal Oil Co. (Letter of October 15, 1951)**
Confirmed by: **W. E. Hunt for Acro Oil Company (Letter of October 16, 1951)**

Type of organization: **Co-partnership**
(Individual, partnership, corporation, etc.)

Our records are being changed accordingly.

Remarks:

eb
CC- Mr R D Bush (2)
M Cooley
Long Beach

E. H. Mares
Deputy Supervisor

	INITIALS	DATE
Form 121	EB	10-18
New Well Cards	✓	✓
Well Records	✓	✓
Logs		
Production Reports	✓ ma	10-29-51
Form 148	✓ EB	10-19-51
Field Maps	50/ ✓	
Map Book	✓ (APD)	10-26-51
Notice to be cancelled?	✓	no, rev 10/29/51

Designation of Agent form forwarded to SF with form 156 today. eb 10-18-51

From the Office of

WALLACE E. HUNT

October 16, 1951

Division of Oil and Gas
1015 West Olympic Blvd.
Los Angeles, Calif.

DIVISION OF OIL & GAS
RECEIVED
OCT 17 1951

LOS ANGELES

Gentlemen:

This is to inform you that the Acro Oil Company, a co-partnership doing business at 424 South Beverly Drive, Beverly Hills, California, hereby accepts the assignment of an oil and gas lease with one well situated thereon, briefly described as Lots 1 to 7 of Tract 584 in Los Angeles County, and more specifically set out on the letter attached hereto dated October 15, 1951 directed to you by Mr. O. F. Darling.

There are also enclosed herewith the following described forms properly filled out and signed by the undersigned:

Notice of Intention to Re-drill Well

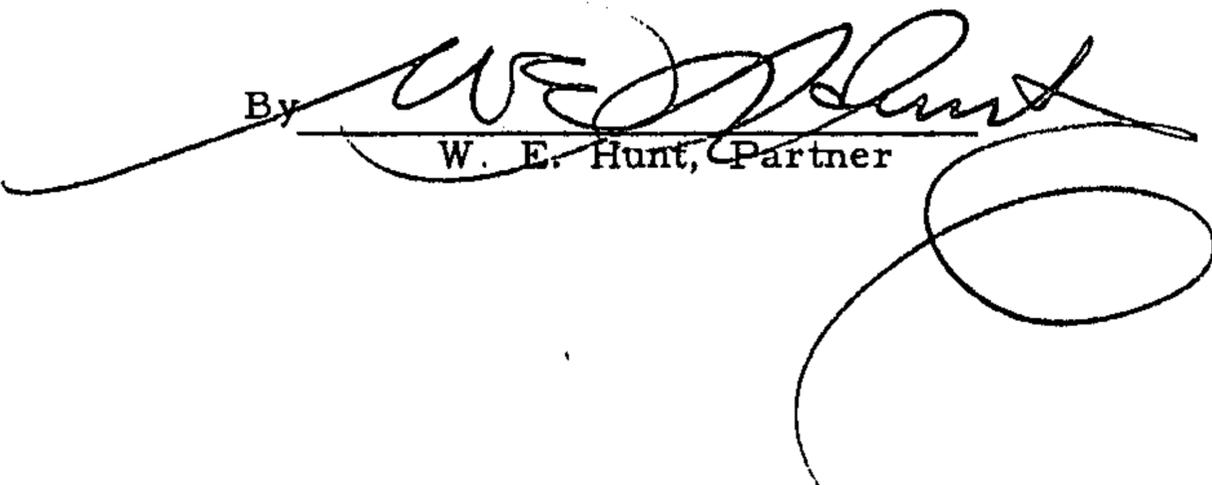
Designation of Agent

Letter of O. F. Darling dated October 15, 1951
directed to Division of Oil and Gas

Very truly yours,

ACRO OIL COMPANY

By


W. E. Hunt, Partner

WEH:ph
Encls.

O. F. DARLING
428 SMITHWOOD DRIVE
BEVERLY HILLS, CALIFORNIA
CREBVIEW 12306
October 15, 1951

DIVISION OF OIL & GAS
RECEIVED
OCT 17 1951

LOS ANGELES

Division of Oil and Gas
1015 West Olympic Blvd
Los Angeles, California.

Gentlemen:

Please be advised that the following lease and well were of this date assigned to the ACRO OIL COMPANY, a co-partnership 424 South Beverly Drive, Beverly Hills, California.

PARCEL 1:

Lots 1 to 7 inclusive of Tract 584 in Los Angeles County, California.

PARCEL 2:

That portion of Lot 7 of Maria Dolores de Watson 3365.95 acre allotment north-easterly of A. T. & S. F. Railway and westerly of the parcel now owned by Ethyl Corporation, said parcel 2 containing 34 acres more or less.

PARCEL 3:

That portion of Lot 7 of Maria Dolores de Watson 3365.95 acre allotment south-westerly of A.T.& S.F. Railway, easterly of Wilmington Avenue, and northerly of Lomita Boulevard, subject to the right of Ranger Petroleum Corporation, or its assignee or assignees, to retain and operate a certain well known as Ranger #1, and the right of said Ranger Petroleum Corporation or its assignee or assignees to reasonable and convenient easement over various portions of the property for operation of and in said Ranger #1 well; said Parcel containing 11 acres of land more or less.

Watson #1 well.

Yours very truly


O. F. Darling, General Partner
Wilmington Terminal Oil Co.

STATE OF CALIFORNIA
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL AND GAS

District 1

Date August 29 1951

REPORT OF PROPERTY AND WELL TRANSFER

Former Owner: O. F. Darling

Description and list of wells: "Watson" 1

Sec. 28, T. 4 S., R. 13 W., S. B. B. & M., Wilmington field,

New Owner: Wilmington Terminal Oil Co.; date acquired: July 3, 1951
Address: 424 South Beverly Drive, Beverly Hills, Calif.

Request for designation of agent for Los Angeles County should be sent to:

Name: Wilmington Terminal Oil Co.
Address: (See above)

Reported by: O. F. Darling for both operators (Letters of August 10 and August 22, 1951)
Confirmed by:

Type of organization: Limited Partnership
(Individual, partnership, corporation, etc.)

Our records are being changed accordingly.

Remarks:

ed
CC- Mr R D Bush (2)
M Cooley
Long Beach

E. H. Mussen

Deputy Supervisor

	INITIALS	DATE
Form 121	EB	8-29-51
New Well Cards	✓	✓
Well Records	✓	✓
Logs		
Production Reports	✓ me	8-30-51
Form 148	✓ EB	8-31-51
Field Maps 50	✓ JQR	
Map Book	✓ JQR	
Notice to be cancelled?	✓	no. R.D.B. 9/5/51

R. D. BUSH
State Oil and Gas Supervisor

E. H. MUSSER
Deputy

EARL WARREN
Governor



WARREN T. HANNUM
Director of Natural Resources

STATE OF CALIFORNIA
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL AND GAS
1015 West Olympic Boulevard
Los Angeles 15 California

DIVISION OF OIL & GAS
RECEIVED
AUG 23 1951
LOS ANGELES

August 20 1951

Mr O F Darling
428 Smithwood Drive
Beverly Hills California

Dear Sir

Thank you for your letter of August 10, 1951, giving us information concerning the transfer of your well No. "Watson" 1, Sec. 28, T. 4 S., R. 13 W., S. B. B. & M., Wilmington field, to Wilmington Terminal Oil Co.

Will you please inform us of the address of Wilmington Terminal Oil Co. so we may write the company to secure confirmation of the transfer data. It is necessary that we have this confirmation to complete our records.

Yours truly

E. H. Musser

E H MUSSER
Deputy Supervisor

Note Address reply to attention
of Mr R G Frame

eb

Aug 22, 1951

The address of Wilmington Terminal Oil Co is: 424 So. Beverly Drive, Beverly Hills, Calif. The General partners are: O. F. Darling and Elwood L. Hance.

*Yours very truly
O. F. Darling*

STATE OF CALIFORNIA
DEPARTMENT OF NATURAL RESOURCES

DIVISION OF OIL AND GAS

DIVISION OF OIL & GAS
RECEIVED
AUG 17 1951

WELL SUMMARY REPORT

LOS ANGELES

Operator O. F. Darling Field Wilmington

Well No. Watson #1 Sec. (29) 18 T. 4S R. 13W S. B. B. & M.

Location 1009 Ft. East and 167.2 Ft. N of intersection of Wilmington & Lomita Aves. Elevation of derrick floor above sea level _____ feet.

In compliance with the provisions of Chapter 93, Statutes of 1939, the information given herewith is a complete and correct record of the present condition of the well and all work done thereon, so far as can be determined from all available records.

Date August 10, 1951 Signed O. F. Darling
Donald M. Smith B. D. Willhite Title Operator
(Engineer or Geologist) (Superintendent) (President, Secretary or Agent)

Commenced drilling May 23, 1951 Completed drilling June 21, 1951 Drilling tools Rotary

Total depth 4500 Plugged depth 3804
Junk None

GEOLOGICAL MARKERS	DEPTH
In middle Pico	1220'
Top of Repetta	2270' ± 10'
Top of Ranger Zone	3710'
Top of Miocene	3980' ± 40'

Commenced producing June 30, 1951 (date) Flowing/gas lift/pumping (cross out unnecessary words)

	Clean Oil bbl. per day	Gravity Clean Oil	Per Cent Water including emulsion	Gas Mcf. per day	Tubing Pressure	Casing Pressure
Initial production	120	15.6	12.0	*****	*****	****
Production after 30 days	345					

CASING RECORD (Present Hole)

Size of Casing (A. P. I.)	Depth of Shoe	Top of Casing	Weight of Casing	New or Second Hand	Seamless or Lapweld	Grade of Casing	Size of Hole Casing landed in	Number of Sacks of Cement	Depth of Cementing if through perforations
16	50	Surface	Conductor Pipe						
7	3725	"	23	New	Seamless	J55	10 5/8	355	-----

PERFORATIONS

Size of Casing	From	To	Size of Perforations	Number of Rows	Distance Between Centers	Method of Perforations
5	3724 ft.	3804 ft.	80	16	6"	Slots

Electrical Log Depths 4500' (Attach Copy of Log)

DIVISION OF OIL AND GAS

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RECEIVED
AUG 17 1951

LOG AND CORE RECORD OF OIL OR GAS WELL

LOS ANGELES

Operator O. F. Darling Field Wilmington

Well No. "Watson" #1 Sec. (29) 28 T. 4S, R. 13W, S. B. B. & M.

FORMATIONS PENETRATED BY WELL

DEPTH TO		Thickness	Drilled or Cored	Recovery	DESCRIPTION
Top of Formation	Bottom of Formation				
0	326	326	Drilled		Sand and Clay
326	725	399	"		" "
725	956	231	"		" "
956	1280	324	"		Sand and Shale
1280	1756	476	"		" "
1756	1995	239	"		" "
1995	2263	268	"		" "
2263	2326	63	"		" "
2326	2652	326	"		Hard hard sand and Shale
2652	2782	130	"		Hard Sand and Shale
2782	2817	35	"		" " "
2817	3001	184	"		" " "
3001	3061	60	"		Shale and Sand
3061	3285	224	"		Hard Sand and Shale
3285	3472	187	"		Sand and Shale
3472	3550	78	"		" "
3550	3718	168	"		" "
3718	3881	163	"		Shale and Hard Sand
3881	3915	34	"		" " "
3915	4011	96	"		" " "
4011	4053	42	"		" " "
4053	4202	149	"		" " "
4202	4500	398	Cored		Shale and Sand

See core record as described by
E. F. McIlvain of Richfield Oil Company.

DIVISION OF OIL AND GAS

DIVISION OF OIL & GAS
RECEIVED
AUG 17 1951

History of Oil or Gas Well

LOS ANGELES

OPERATOR O. F. Darling FIELD Wilmington

Well No. "Watson" #1, Sec. (29) 28, T. 4S, R. 13W, S. B. B. & M.

Signed O. F. Darling

Date August 10, 1951 Title Operator

It is of the greatest importance to have a complete history of the well. Use this form in reporting the history of all important operations at the well, together with the dates thereof, prior to the first production. Include in your report such information as size of hole drilled to cementing or landing depth of casings, number of sacks of cement used in the plugging, number of sacks or number of feet of cement drilled out of casing, depth at which cement plugs started, and depth at which hard cement encountered. If the well was dynamited, give date, size, position and number of shots. If plugs or bridges were put in to test for water, state kind of material used, position and results of pumping or bailing.

Date
1951

- 5/16 Set 50' conductor pipe.
- 5/23 Spud in with 10 5/8" bit.
- 5/28 Reduced to 7 5/8" bit.
- 5/30 Ran Electric Log at 4202'
- 5/30 Started coring at 4202' and continued to 4500' with 7 5/8" wire line.
- 6/2 Ran Electric Log to 4500'
- 6/15 Hole plugged back, pumped in 40 sax construction cement thru 4 1/2" F. H. D. P. at 3890'
- 6/16 Reamed out 7 5/8" hole to 10 5/8"
- 6/17 Ran and cemented 95 joints of 7"--23# new casing--"J55" at 3725' with 280 sax construction cement, 11 sax gel, 75 sax perlite, followed by 75 sax cement, baffle plate 4068' up (@ 3685' K.B.) 2 centralizers (@ 3715' and 3690' K.B.) 6 rotating scratchers, Baker float shoe.
- 6/18 Drilled out to 3728'
- 6/19 Ran W. S. O. test witnessed by D. O. G.
- 6/20 Ran casing scraper.
- 6/20 Ran in 6 1/8" bit to feel for plug and found same at 3828'. Mixed 7 sax construction ~~xxxx~~ cement ran in hole--bucket bailer, dumped on top of plug at 3828'. Ran in hole with 6 1/8" bit and found cement firm at 3801' and firm at 3803'. Cleaned out to 3805' cement firm at 3805'. Reamed out 7 5/8" hole to 11 1/2".
- 6/21 Ran 6 joints of 5"--15# liner, total 129.48' including 79.67' of 80 mesh, 16 rows-2" slots-6" center, landed at 3804'-Top of line 3674' Top of Perforations 3724'. Gravel packed with 46 cu. ft. 3/16" gravel. 3 Nelson centralizing guides 5" X 12" installed on ~~the~~ liner, #1--15' from bull nose, #2--40' from bottom, #3--69' from bottom of liner. Nelson Lead seal at top of liner.
- 6/30 Ran in 3550'--2 1/2" tubing and 3/4" rods and played well on production at 8:30 P.M.. Estimated production 120 bbls. per day.

Core Record

Watson #1

<u>FROM</u>	<u>TO</u>	<u>RECOVERY</u>		<u>DESCRIPTION</u>
4202	4212	6'6"	4' SLTST	Dk gy, masv, firm, finely micaceous, w/ occas thin ptgs of fn gy sd; abund forams. Fair 5"-12" dip on sd ptgs.
		0'6"	Oil Sd	Dk brn, masv, soft, fn gnd, micaceous, permeable, w/ tar odor and blk cut.
		1'	Sand	Dk gy, masv, soft, fn gnd, well sorted, perm. No cut or odor.
		1'	Oil Sd	Dk brn, masv, w/ stks of fn gnd, soft permeable gy sd. Tar odor and blk cut.
4212	4219	5'	1' Sand	Gy, as above.
			4' Sltst	As above, w/ three 2" stks of above gy sd. Good 5" dip on sd ptgs.
4219	4229	5'	3' Sand	Gy, as above
			2' Sltst	Dk gy, masv to irreg bdd w/ thin stks of gy sd and brn shale. Good 5-7" dip.
4229	4239	10'	SLTST	Dk gy, hd, well bdd w/ thin stks of gy sd and dk brn organic shale; finely micaceous, w/ some minor fracta and slicks. W/ one 6" stk of dk gy, masv, soft to firm, micaceous, fn gnd, well sorted, permeable sand at 5' frgm top of core. Strong gas odor; good 17" dip on sd ptg.
4239	4248	9'	Sand	Gy, as above, w/ strong odor.
4248	4258	9'	2' Gy Sd	As above.
			1' SLTST	As above, w/ good 14" dip.
			1' Oil Sd	Dk brn, grading to gy-strkd at bottom; masv, soft, micaceous, fn gnd, permeable. Blk out and good odor.
			5' Gy Sd	As above, w/ gas odor.
4258	4268	7'	Sand	Dk gy, masv, soft to friable, fn gnd, micaceous, permeable, w/ occas thin silty laminae in top 1'; some carbonaceous material. Sour gas odor; no cut.
4268	4278	4'	3' SS	Lt gy, masv, hd to friable w/ diff, silty, med gnd, micaceous; permeability appears low.
			1' Sand	Dk gy, masv, soft, fn gnd, perm.
4278	4288	10'	Gy Sd	As above
4288	4298	10'	Gy Sd	As above

Watson #1

LOS ANGELES

<u>FROM</u>	<u>TO</u>	<u>RECOVERY</u>	<u>DESCRIPTION</u>
4298	4308	9'	Gy Sd As above, w/ three 2" stks of dk gy, masv, hd, micaceous sltst.
4308	4318	3'6"	Gy Sd & SLTST Slstst as above(50%), interbdd w/ dk gy masv, firm, sdy, v. micaceous sand. Burned and twisted in coring.
4331	4338	1'	SLTST Badly mud-out; dk gy, masv, firm, micaceous
4338	4348	10'	SLTST Dk gy, occas well bdd, w/ this stks of gy sd; hd, micaceous, w/ minor slicks; abund forams. W/ two 2" stks of med brn, masv, soft to friable, fn gnd, micaceous, silty, permeable oil sd. Good 11° dip. Blk out.
4348	4358	10'	SLTST As just above, w/ one 4" stk of above oil sd at bottom of core. Good 12° dip.
4358	4368	8'	SLTST As above, w/ one 6" stk sltst shell at 3' fr top.
4368	4378	7'	4' Sand Med gy, masv, friable, frn gnd, micaceous, well sorted, permeable, no out or odor. 1' SLTST As above. 2' Oil sd Dk brn, evenly stnd, masv, friable, med gnd, micaceous, perm, well saturated. Good odor and blk cut.
4378	4388	4'	0'6" Oil Sd As above. 3'6" Gy Sd As above.
4388	4398	10'	Sand Med gy, masv, soft to friable, fn gnd, silt micaceous, permeable. No cut or odor.
4398	4408	10'	Gy Sd As above, w/ occas thin silty stks near bottom.
4408	4418	9'	2' Gy Sd As above. 1' Oil Sd Med brn, masv, friable, fn gnd, micaceous, perm. Good ofor and blk cut. 6' Gy Sd As above.
4418	4428	9'	Gy Sd & Oil Sd Interbdd in 6" stks. Oil sd is lt tan, spottily strkd, masv, soft, friable, in to med gnd, silty, micaceous, permeable, w/ w/ blk cuts. Gy sand is med gy, masv, friable, fn gnd, silty, micaceous. W/ two 1" stks of sltst; occas carb material.
4428	4438	10'	0'6" Gy Sd As above. 0'6" Oil Sd As Above 9' Gy Sd As above.

Watson #1

<u>FROM</u>	<u>TO</u>	<u>RECOVERY</u>		<u>DESCRIPTION</u>
4438	4448	9'	3'	Oil Sd Lt tan, strkd w/ gy, masv, friable, fn gnd, silty, micaceous, permeable, w/ weak odor and blk cuts. Dk gy-blk, firm, micaceous, semi-platy, w/ very abund forams. Good 17° dip.
4448	4458	9'		Oil Sd Med brn, masv, friable, fn to med gnd, micaceous, poorly sorted, permeable, w/ fair odor and blk cut.
4478	4488			Oil Sd As above, becoming strkd w/ gy thruout.
4488	4498	1'		SLTST Dk gy, masv to irreg bdd w/ strks of gy sd. Firm, micaceous. Poor 20° dip.

Discribed by E. F. McIlvain

STATE OF CALIFORNIA
DEPARTMENT OF NATURAL RESOURCES

DIVISION OF OIL AND GAS

Report on Test of Water Shut-off
(FORMATION TESTER)

No. T 1-53094

Los Angeles 15 Calif. June 29 1951

Mr. Donald H Smith
Beverly Hills Calif.

Engineer ~~xxxx~~ for O. F. DARLING

DEAR SIR:

Your well No. "Watson" 1, Sec. 28, T. 4 S, R. 13 W, 9 B B & M.
Wilmington Field, in Los Angeles County, was tested for water shut-off
on June 19, 1951. Mr. W. C. Bradford, Inspector, designated by the supervisor,
was present as prescribed in Secs. 3222 and 3223, Ch. 93, Stat. 1939; there were also present
M. McKenzie, Engineer; B. Wilhite, Drilling Foreman.

Shut-off data: 7 in. 23 lb. casing was cemented ~~xxxx~~ at 3725 ft.
on June 17, 1951 in 10-5/8 in. hole with 355 sacks of cement
~~xxxx~~ of which 31 sacks was left in casing.

Casing record of well: 16" cem. 60'; 7" cem. 3725', V.S.O., plugged with cement 3890'-3750'±.

Present depth 4501 ft. Bridged with cement from 3890 ft. to 3750± ft. Cleaned out to 3728 ft. for test.
A pressure of 800 lb. was applied to the inside of casing for 15 min. without loss after cleaning out to 3710 ft.
A Johnston tester was run into the hole on 3-1/2 in. drill pipe ~~xxxx~~
with ~~xxxx~~ ft. of water-mud cushion, and packer set at 3686 ft. with tailpiece to 3695 ft.
Tester valve, with 3/8 in. bean, was opened at 5:08 a.m. and remained
open for 1 hr. and xxx min. During this interval there was a medium, heading blow for
16 min., and a light, heading blow throughout the remainder of the test.

THE INSPECTOR ARRIVED AT THE WELL AT 6:30 A. M. AND MR. M. MCKENZIE REPORTED:

1. A 10-5/8" rotary hole was drilled from 60' to 3730'; a 7-5/8" rotary hole, 3730'-4501'.
2. Electrical core readings showed the top of the "Ranger" zone at 3710'.
3. On June 16, 1951, 40 sacks of cement was pumped into the hole through 4-1/2" drill pipe hanging at 3890' calculated to fill to 3750'±.

THE INSPECTOR NOTED:

1. When the drill pipe was removed, 477' of medium, gassy, drilling fluid was found in the drill pipe above the tester, equivalent to 3.6 bbl.
2. The recording pressure bomb chart showed that the tester valve was open 1 hr.

The test was completed at 8:10 a.m.

THE 7" SHUT-OFF AT 3725' IS APPROVED.

WCB:OH

ma

cc O F Darling
Long Beach

R. D. BUSH, State Oil and Gas Supervisor

By E. H. Mussen, Deputy

STATE OF CALIFORNIA
DEPARTMENT OF NATURAL RESOURCES

DIVISION OF OIL AND GAS
REPORT ON PROPOSED OPERATIONS

No. P 1-49964

Los Angeles 15 Calif. May 24 19 51

Mr. Donald M Smith

Beverly Hills Calif.

121

Engineer ~~Agent~~ for O. F. DARLING

DEAR SIR:

Your proposal to drill Well No. "Watson" 1

Section 28, T. 4 S, R. 13 W, S B B. & M., Wilmington Field, Los Angeles County,

dated May 18 19 51, received May 21 19 51, has been examined in conjunction with records filed in this office.

Present conditions as shown by the records and the proposal are as follows:

THE NOTICE STATES

"Location of Well: 1009' E. & 167.2' N. of the intersection of the center lines Wilmington and Lemita Avenues.

Elevation of ground above sea level _____ feet.

All depth measurements taken from top of Kelly Bushing which is $\frac{1}{2}$ 8 feet above ground."

PROPOSAL

"PROPOSED CASING PROGRAM

Size of Casing

Inches A.P.I.	Weight	Grade and Type	Top	Bottom	Cementing Depths
16"	Conductor Pipe			50'	
7"	23#	J-55	0'	4300'	Cmt w/light weight aggregate
5"	15#	J 55	4200'	4400'	Landed

Intended zone or zones of completion:

Name Perforated Interval
Upper Terminal $\frac{1}{2}$ 4300' - $\frac{1}{2}$ 4400'

It is understood that if changes in this plan become necessary we are to notify you before running casing."

DECISION

THE PROPOSAL IS APPROVED PROVIDED THAT

1. Blowout prevention equipment, sufficient to provide a complete close-in of the well under pressure at any time, shall be installed and approved by this division.
2. Any hole to be sidetracked in any oil or gas zone shall be filled with cement, if possible.
3. Sufficient cement shall be used to fill back of the 7" casing to reach the base of the fresh waters.
4. THIS DIVISION SHALL BE NOTIFIED TO WITNESS a test of the effectiveness of the 7" shut-off.

RGF:OH

Mr Boone - Field Supt.
Ph-Bradshaw 21125
424 S. Bev. Dr.

cc Donald M Smith
Long Beach

R. D. BUSH
State Oil and Gas Supervisor

Smith to Frame 6/12/51 =
T-D 3725' no commercial
shows in U. Term. well has
been standing 10 days.
waiting for casing. Will
Cl out to 3900' + plug 3900'
3800' + produce Ranger.
By E. H. Manser Deputy
OK per RGF. (edgewell)

STATE OF CALIFORNIA
DEPARTMENT OF NATURAL RESOURCES

DIVISION OF OIL AND GAS

037-05053

DIVISION OF OIL & GAS
RECEIVED
MAY 21 1951

Notice of Intention to Drill New Well

This notice and surety bond must be filed before drilling begins

LOS ANGELES

DECALTA INTERNATIONAL CORP. Long Beach, Calif. May 18, 1951 D

DIVISION OF OIL AND GAS

"WATSON A" 1

In compliance with Section 3203, Chapter 93, Statutes of 1939, notice is hereby given that it is our intention to commence the work of drilling well No. **"Watson" #1**, Sec. **(29)²⁸**, T. **4-S**, R. **13-W**, S.B. B. & M., **Wilmington** Field, **Los Angeles** County. OED - JLW

Legal description of lease **See attached plat.**
(Attach map or plat to scale)

Location of Well: **1009' E. & 167.2' N. of the intersection of the center lines Wilmington and Lomita Avenues.**
(Give exact footage from section corners or other legal subdivision or streets)

Elevation of ground above sea level _____ feet.

All depth measurements taken from top of **Kelly Bushing** which is **8** feet above ground.
(Derrick Floor, Rotary Table or Kelly Bushing)

PROPOSED CASING PROGRAM

SIZE OF CASING INCHES A.P.I.	WEIGHT	GRADE AND TYPE	TOP	BOTTOM	CEMENTING DEPTHS
16"	Conductor Pipe			50'	
7"	23#	J 55	0'	4300'	Cmt w/light weight aggregate
5"	15#	J 55	4200'	4400'	Landed

Intended zone or zones of completion:

NAME **Upper Terminal** PERFORATED INTERVAL **4300' - 4400'**

MAP	MAP BOOK	CARDS	BOND	FORMS	
				114	121
50 JLW	JLW	EB	207229	EB	EB

It is understood that if changes in this plan become necessary we are to notify you before running casing.

Address **428 Smithwood Dr., Beverly Hills, Calif.** **O. F. DARLING**

Telephone Number **CRestview 1-2306** By **Donald M. Smith**
Donald M. Smith - Engineer *OPM*

call OP.

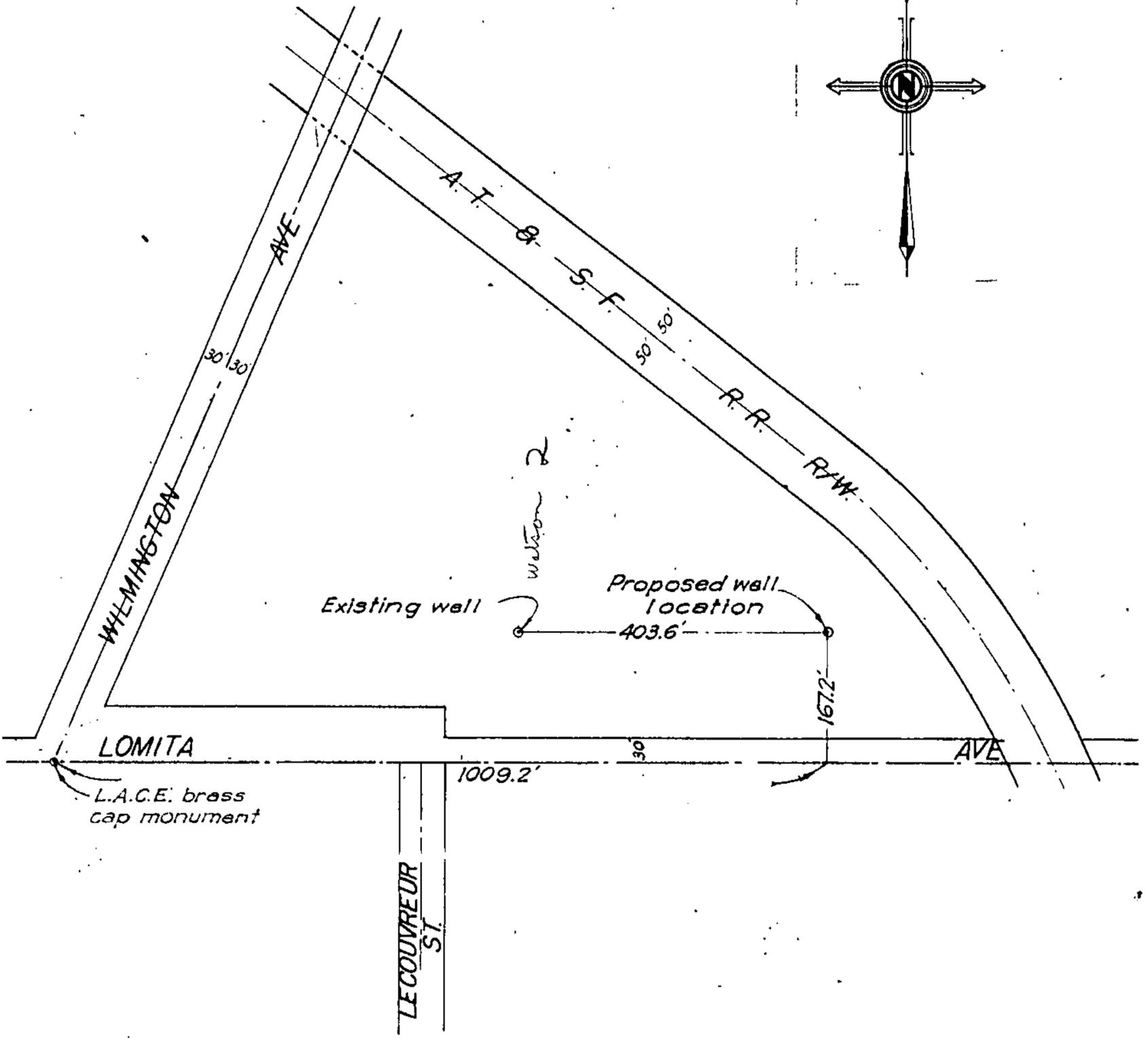
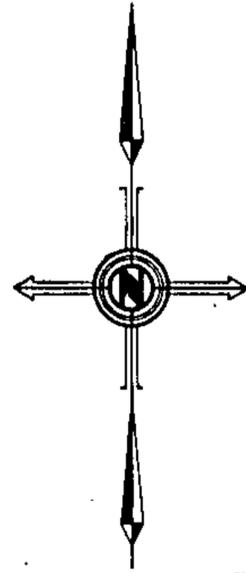
SEND ONE COPY OF NOTICE TO DIVISION OFFICE IN DISTRICT WHERE WELL IS LOCATED

DIVISION OF OIL & GAS

RECEIVED

MAY 21 1951

LOS ANGELES



9089-A	5-11-51	RM.
JOB No.	DATE	BY
REVISIONS		

MAP FOR

O. F. DARLING

SHOWING PROPOSED WELL LOCATION ON
A PORTION OF LOT 7 OF MARIA DOLORES DE
WATSON 3365.95' ACRE ALLOTMENT.

NORTH WILMINGTON FIELD LOS ANGELES COUNTY, CALIFORNIA.

SCALE 1" = 200' DATE MAY 1951

JOB NO. **HOMER R. DULIN COMPANY** FILE NO.
9089-A **LICENSED SURVEYORS** 8-274
729 E. WILLOW ST. • PHONE 485-33 • LONG BEACH 6, CAL.