

OPERATOR NAME CHANGE

ARCO Oil and Gas Co.

changed name effective April 8, 1994

to

ARCO Western Energy

See Ownership file, ARCO Oil and Gas Company, for Form 156 dated 6-26-79 listing all wells (Los Angeles and Orange Counties) transferred effective 1-2-79 from Atlantic Richfield Company (change of operating name).

CALIFORNIA STATE MINING BUREAU

LOG OF OIL OR GAS WELL

APR 16, 1919

FIELD Montebello. COMPANY PAN AMERICAN PETROLEUM CO.
 Township 1S Range 12W Section 35 Number of well 1
 Tri City

In compliance with the provisions of Chapter 718, Statutes 1915, the information given herewith is a complete and correct record of all work done on the well since the previous record, dated Feb. 18, 1919, was filed.

Signed A. H. Davis
 (President, Secretary or Agent)

Date April 15, 1919. Title Superintendent.

Shot 10" off @ 1700' with 15# gelatine dynamite.
 Pulled 86 joints, about 1688'2", of 10" from hole.

Put in bridge @ 1615' and dumped 20 sacks of cement on bridge. Shot 12 $\frac{1}{2}$ " @ 1000', 700', and 500'. Pulled 27 joints, 495'4", of 12 $\frac{1}{2}$ " from hole.

On March 11, 1919 bridged hole near top and dumped 6 sacks of cement on bridge. Top of cement plug is about 7' below the surface of the ground.

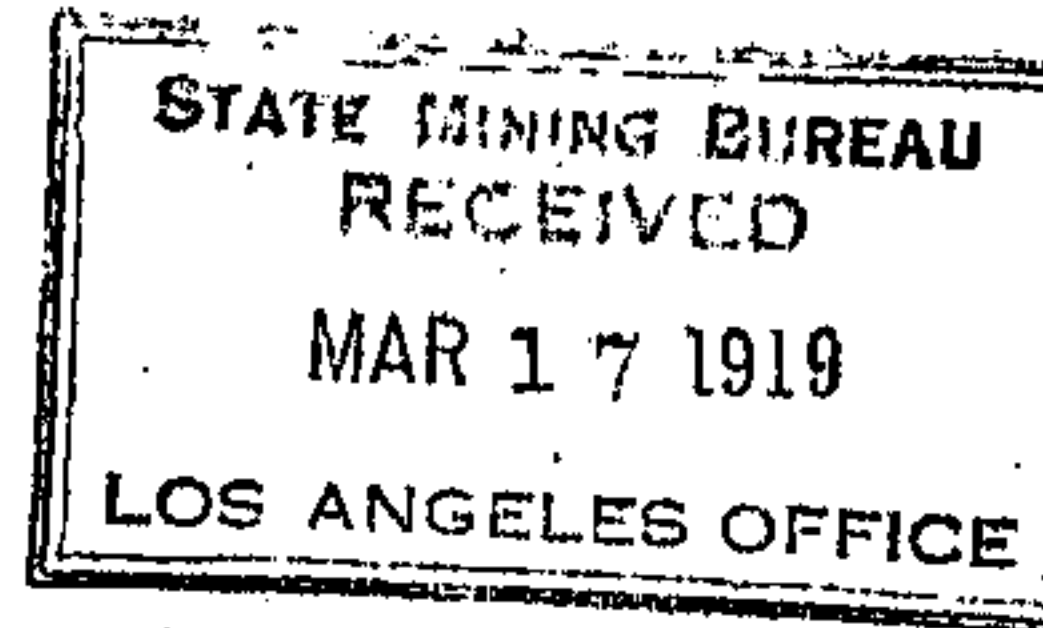
Tore down the rig.

Drillers: A. M. Fleisher, Harry Wolf, E. Baker, and E. L. Smith.

Tool Dressers: R. C. Alleman, F. Conkey, and R. Wheeler.

CK
 G. B. M.

CALIFORNIA STATE MINING BUREAU
LOG OF OIL OR GAS WELL



FIELD Montebello COMPANY PAN AMERICAN PETROLEUM COMPANY.
Township 1S Range 12W Section 35 Number of well 1
Tri City

In compliance with the provisions of Chapter 718, Statutes 1915, the information given herewith is a complete and correct record of all work done on the well since the previous record, dated March 8, 1919, was filed, and as far as I know is complete and correct.

Signed A. J. Davis
(President, Secretary or Agent)

Date March 15, 1919. Title Superintendent.

Got hold of 12 $\frac{1}{2}$ ". Shot same off @ about 500' and pulled 27 joints, #95' $\frac{1}{4}$ " from hole. Bridged hole near top and dumped 6 sacks of cement on bridge. Top of cement plug is about 7' below surface of ground,

Well is abandoned.

OK
S. B. M.

CALIFORNIA STATE MINING BUREAU
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MAR 11 1919
LOS ANGELES

CALIFORNIA STATE MINING BUREAU

LOG OF OIL OR GAS WELL

FIELD Montebello COMPANY PAN AMERICAN PETROLEUM CO.
Township 1S Range 12W Section 35 Number of well 1
Tri City

~~In compliance with the provisions of Chapter 718, Statutes 1917~~, the information given herewith is a ~~complete and~~
~~correct~~ record of all work done on the well since the previous record, dated March 1, 1919, was filed.
and as far as I know is complete and correct.
Signed A. J. Davis
(President, Secretary or Agent)

Date March 8, 1919 Title Superintendent

Fishing for 12½" casing which parted below
2nd collar while pulling.

CK
G.B.M.

CALIFORNIA STATE MINING BUREAU

LOG OF OIL OR GAS WELL

STATE MINING BUREAU
RECEIVED
MAR 8 1919
LOS ANGELES OFFICE

FIELD Montebello, COMPANY PAN AMERICAN PETROLEUM CO.

Township 13 Range 12W Section 35 Tri City Number of well 1

~~IN ACCORDANCE WITH THE PROVISIONS OF CHAPTER 712, STATUTES 1917,~~ the information given herewith is a ~~complete and~~
~~correct~~ record of all work done on the well since the previous record, dated Feb. 18, 1919, was filed.
and as far as I ~~know~~ is complete and correct.

Signed A. J. Davis
(President, Secretary or Agent)

Date March 1, 1919. Title Superintendent.

Shot off 10" @ 1700' with 15# gelatine dynamite. Pulled 86 joints, about 1688'2" of 10" from hole. Put in bridge @ 1615' and dumped 20 sacks of cement on bridge. Shot 12 1/2" @ 1000', but it would not pull. Shot 12 1/2" at 700'.

OK
G. B. M.

CALIFORNIA STATE MINING BUREAU

Department of Petroleum and Gas

RECORD OF WELL SHOOTING

COPIED FROM REPORTS BY ALLISON & BERRY CO.

COMPANY Pan American Petroleum FIELD MontebelloLEASE Tri City WELL No. 1 SEC. 35 T. 1 S R. 12 W S.B. B. & M.Date Feb. 28th 1919 At 1000 ft. with 15 sticks 15 lbs. 80% gelatin dynamitePurpose Loosen 12 $\frac{1}{2}$ " casingTorpedoes, number 1 Diameter 6" Length 14"Number of caps 2 Size casing 12 $\frac{1}{2}$ " Kind of well oilShooter M. A. PryorDate Feb. 28th 1919 At 700 ft. with 15 sticks 15 lbs. 80% gelatin dynamitePurpose Loosen 12 $\frac{1}{2}$ " casingTorpedoes, number 1 Diameter 6" Length 14"Number of caps 2 Size casing 12 $\frac{1}{2}$ " Kind of well oilShooter M. A. PryorDate March 8th 1919 At 500 ft. with 20 sticks 20 lbs. 80% gelatin dynamitePurpose Loosen 12 $\frac{1}{2}$ " casingTorpedoes, number 1 Diameter 6" Length 18Number of caps 2 Size casing 12 $\frac{1}{2}$ " Kind of well oilShooter M. A. Pryor

Date _____ At _____ ft. with _____ sticks _____ lbs. 80% gelatin dynamite

Purpose _____

Torpedoes, number _____ Diameter _____ Length _____

Number of caps _____ Size casing _____ Kind of well _____

Shooter _____

CALIFORNIA STATE MINING BUREAU

Department of Petroleum and Gas

RECORD OF WELL SHOOTING

COPIED FROM REPORTS BY ALLISON & BERRY CO.

COMPANY Pan American Petroleum FIELD Montebello

LEASE Tri City WELL No. 1 SEC. 35 T. 1 S. R. 12 W. S.B. B. & M.

Date Feb. 25 - 1919 At 1700 ft. with sticks 15 lbs. 80% gelatin dynamite

Purpose Loosen 10" casing

Torpedoes, number 2 Diameter 6" Length 14

Number of caps 2 Size casing 10" Kind of well oil

Shooter M. A. Pryor

Date At ft. with sticks lbs. 80% gelatin dynamite

Purpose

Torpedoes, number Diameter Length

Number of caps Size casing Kind of well

Shooter

Date At ft. with sticks lbs. 80% gelatin dynamite

Purpose

Torpedoes, number Diameter Length

Number of caps Size casing Kind of well

Shooter

Date At ft. with sticks lbs. 80% gelatin dynamite

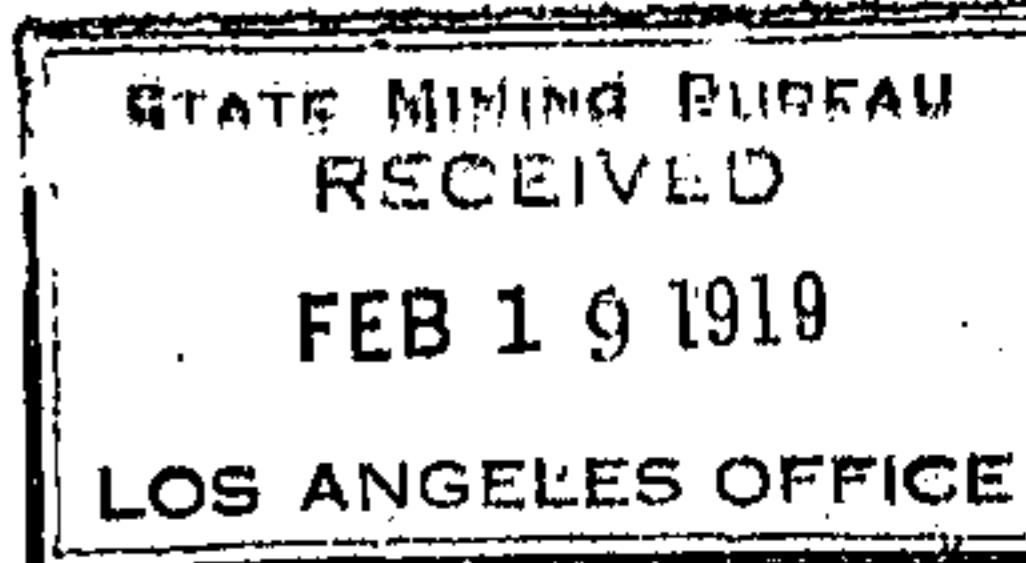
Purpose

Torpedoes, number Diameter Length

Number of caps Size casing Kind of well

Shooter

CALIFORNIA STATE MINING BUREAU
LOG OF OIL OR GAS WELL



FIELD Montebello COMPANY PAN AMERICAN PETROLEUM CO.
 Township 1S Range 12W Section 35 Number of well 1
Tri City

In compliance with the provisions of Chapter 718, Statutes 1915, the information given herewith is a complete and correct record of all work done on the well since the previous record, dated Feb. 5, 1919., was filed.

Signed A. H. Davis
 (President, Secretary or Agent)

Date Feb. 18, 1919. Title Superintendent
 per S. B. Moody

Shot 4½" casing @ about 3700', 3550', & 3450', using 15# of gelatine dynamite for each shooting. Pulled 3442'5" of 4½" from hole.

Dumped 20 sacks of cement in 6-5/8" and shot same off at about 3450' & 3380', using 25# of gelatine dynamite for each shooting. Pulled 3335'11" of 6-5/8" from hole.

Dumped 20 sacks of cement @ 3375'. Cleaned out to 3280'. Cemented the 8½" casing @ 3275' with 80 sacks of cement; found top of this cement @ 3182'. Cleaned out to 3290' and dumped in 10 sacks of cement. This plug reached to 3275'. Dumped 7 sacks of cement @ 3275'. Shot 8½" off at about 3203' with 25# of gelatine dynamite and pulled 3203'3" of 8½" from hole.

Dumped 10 sacks of cement @ 3200' and shot 10" @ 3000' with 25# of gelatine dynamite. After this shooting the 10" was found split at about 2836'. Bridged hole to 3000' and dumped 17 sacks of cement on bridge. Shot 10" from 2936' to 2966' with a sausage shot, 5 links and 5# to the link. Pumped in 22 sacks of cement through tubing and pulled tubing. The top of this plug was found @ 2930'.

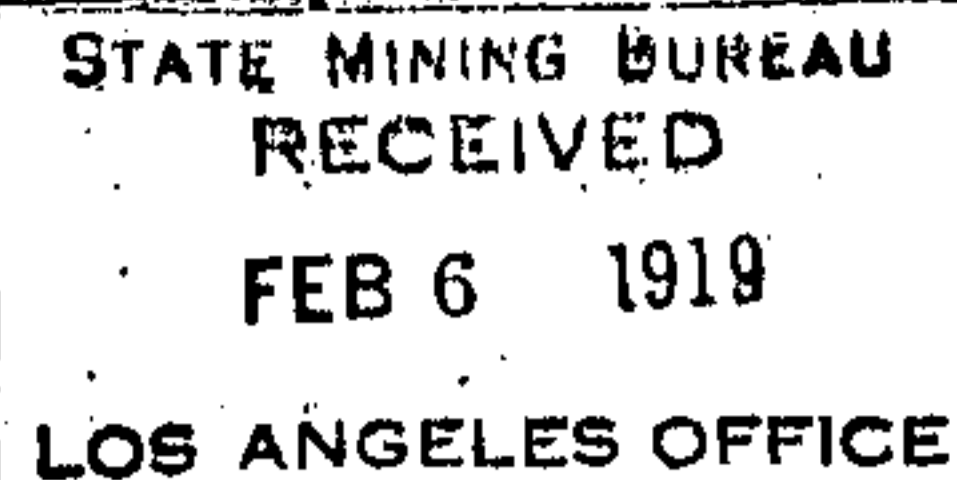
Last work done Dec. 24, 1918.

Present casing record:

1598'2" of 12½" cemented @ 1598'2".
 3215'7" of 10" frozen @ 3215'7".
 132'2" of 8½" with top @ 3203'3".
 498'3" of 6-5/8" with top @ 3344'11".
 451'9" of 4½" with top @ 3442'5".

Drillers: G. V. York, E. Baker, J. R. Bridge, J. C. Reese,
 E. L. Smith, C. C. Cable, Chas. Cobb, H. Wolf, F. Perry, & F. A. Burkett.

Tool dressers: K. A. McComb, H. Sinclair, W. C. Rodgers,
 G. W. Young, A. F. Burns, F. Conkey, Ray Wheeler, & B. Van Patten.



CALIFORNIA STATE MINING BUREAU

HISTORY OF OIL OR GAS WELL

FIELD Montebello COMPANY PAN AMERICAN PETROLEUM CO.
 Township 18 Range 12W Section 35 Number of well 1
 Signed A. H. Davis (President, Secretary or Agent)
 Date Feb. 5, 1919. Title Superintendent.

It is of the greatest importance to have a complete history of the well. Please state in detail the dates of redrilling, together with the reasons for the work and its results. If there were any changes made in the casing, state fully, and if any casing was "side tracked" or left in the well give its size and location. If the well has been 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.

Spudded in Oct. 11, 1917 and drilled with rotary to 1665'. Cemented a string of 12 $\frac{1}{2}$ " casing on bridge @ 1598'2". After standing 18 days drilled out plugs and made bailing tests. Water was coming into the hole.

Cleaned hole out to 1630', put in 4' rope bridge and dumped 33 sacks of cement on the bridge. Found top of cement plug @ 1607' and water was coming into the hole. Recemented the 12 $\frac{1}{2}$ " with 40 sacks of cement pumped in under 600# pressure. After standing 18 days drilled out cement to 1602' and bailing tests showed that water was still entering the well.

Rigged up standard tools, drilled out to old bottom, and drilled ahead to 1673', carrying a string of 10" casing. Put in brick bridge from 1663' to 1630', pulling the 10" casing up as the bridge was made, and pumped in 40 sacks of cement through tubing set at 1626'. The top of this plug was found @ 1618'. Pumped in 40 more sacks of cement through tubing set @ 1601'4". This brought the top of the plug to 1607'4". Bailing tests were made and water was found to be entering the well. The 10" casing, with 1 joint of perforated on bottom, was set on top of the plug during the bailing tests.

The hole was drilled to old bottom, 1673', and bailing tests made with the shoe of the 10" casing @ 1670'8". The tests showed that water was entering the well more rapidly than when it was plugged to 1607'4". It was decided that water was probably entering the hole from formations below the shoe of the 12 $\frac{1}{2}$ " casing.

Drilled with cable tools to 1794', then pulled the 10" casing and rigged up rotary. (Note: The log dated Dec. 23, 1918 states that cable tools were used from 1607' to 1904', which is in error. The correct tool record is: Rotary 0 - 1665' and 1794' - 3303'; cable 1665' - 1794' and 3303' - 3923'). Drilled to 3303' with rotary and ran in string of 10" casing, intending to cement same on bottom. The 10" froze @ 3215'7" and it was impossible to get circulation, so it could not be cemented.

Rigged up cable tools and ran in a string of 8 $\frac{1}{2}$ " casing. Drilled to 3360' and landed the 8 $\frac{1}{2}$ " @ 3335'5". Drilled ahead to 3880' and carried a string of 6-5/8" casing to 3834'2", at which depth it froze. (Note: Under casing record in the log dated Dec. 23, 1918

STATE MINING BUREAU
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FEB 6 1919
LOS ANGELES OFFICE

CALIFORNIA STATE MINING BUREAU

HISTORY OF OIL OR GAS WELL

Page #2/

FIELD Montebello COMPANY PAN AMERICAN PETROLEUM CO.
Township 1S Range 12W Section 35 Number of well 1
Signed A. H. Warr
(President, Secretary or Agent)
Date Feb. 5, 1919. Title Superintendent.

It is of the greatest importance to have a complete history of the well. Please state in detail the dates of redrilling, together with the reasons for the work and its results. If there were any changes made in the casing, state fully, and if any casing was "side tracked" or left in the well give its size and location. If the well has been 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 balling.

the 6-5/8" casing is shown as set @ 3843'2", which is a typographical error and should read 3834'2"). Ran in string of 4 1/2" casing and drilled ahead to 3923'. The 4 1/2" froze @ 3894'2".

In addition to the drillers and tool dressers listed in the space provided in the log, the following men worked on this well:

Drillers: R. C. Davis, C. E. Milburn, G. E. Dudney, E. L. Smith, J. Braden, N. J. Alleman, A. L. Smith, F. I. Rankin, W. M. Stewart, W. A. Pierce, G. Rehart, W. B. Ford, T. A. Reynolds, R. E. Fife, G. E. Wood, J. H. Thompson, D. Johnson, J. C. Reese, J. I. Frankenburg, J. W. Stover;

Tool dressers: J. Sprague, T. B. Wyatt, H. Beyerbach, E. Loft-house, R. H. Chamberlain, F. Posey, C. V. Rood, R. C. Alleman, W. J. Calderwood, W. Ashton, W. A. Meginnis, G. Zimmerman, R. C. Dahlitz, H. Moore, H. Steel, G. P. Jordan, G. Hoard, B. VanPatten, H. E. Kunkel, A. D. Greene, F. A. Burkett, F. Speheger, C. A. Cosby, K. A. McComb, R. Wheeler, and C. G. Boster.

The foregoing history covers the work done on this well to Sept. 24, 1918, previous to starting to pull the 4 1/2" casing. A supplementary report covering shooting, casing pulling and cementing operations will be filed when said operations are completed.

Fill this blank in with typewriter. Write on one side of paper only

CALIFORNIA STATE MINING BUREAU

FERRY BUILDING, SAN FRANCISCO

LOG OF OIL OR GAS WELL

STATE MINING BUREAU
RECEIVED
DEC 24 1918
LOS ANGELES

FIELD MONTREBELLO COMPANY PAN AMERICAN PETROLEUM CO.

Township 1 S Range 12 W Section 35 Elevation 299 Number of Well #1

In compliance with the provisions of Chapter 718, Statutes of 1915, 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.

Signed V. H. Davis

Date December 23 1918 Title Supt. (President, Secretary or Agent)

The summary on this page is for the ORIGINAL condition of the well

OIL SANDS

1st sand from _____ to _____ 4th sand from _____ to _____
2d sand from _____ to _____ 5th sand from _____ to _____
3d sand from _____ to _____ 6th sand from _____ to _____

IMPORTANT WATER SANDS

1st sand from _____ to _____ 3d sand from _____ to _____
2d sand from _____ to _____ 4th sand from _____ to _____

CASING RECORD

Size of Casing	Where Landed	Where Cut	Weight Per Foot	Threads Per Inch	Kind of Shoe	Make of Casing	Yes	No	Cemented	Number of Sacks
12 1/2"	1598' 2"		40 lbs.			Marke	Yes			160
10"	3215' 7"		45 "		Common	"				
8 1/2"	3335' 8"		28 "		Baker.	"				
6-5/8"	3843' 2"	3834' 2"	26 "			"				
4 1/2"	3894' 2"		15 "			"				

CEMENTING OR OTHER SHUT-OFF RECORD

Casing Size	Sacks	Time Set	Method	Test and Result (Give water level and balling results)

PLUGS AND ADAPTERS

Heaving Plug—Material _____ Length _____ Where set _____
Adapters —Material _____ Size _____

TOOLS

Rotary Tools were used from 0 - 1607 ¹⁷⁹⁴ 1904 - 3303 ft. to 1607 ft.
Cable Tools were used from 1607 - 1904 ¹⁷⁹⁴ 3303 - 3923 ft. to 1904 ft.

PERFORATIONS

State clearly whether a machine was used or casing was drilled in shop

From	To	Size of Holes	Number of Rows	Holes Per Foot	Machine—Shop
ft.	ft.				
ft.	ft.				
ft.	ft.				
ft.	ft.				
ft.	ft.				

Thirty days after completion well produced _____ barrels of oil per day.

3495	3507	12	Shale
3507	3508	1	Hard shell
3508	3512	4	Shale
3512	3528	16	Sandy shale
3528	3539	11	Shale
3539	3554	15	Dark shale
3554	3556	2	Hard shell
3556	3568	12	Sandy blue shale
3568	3571	3	Dark shale
3571	3584	13	Sandy brown shale
3584	3590	6	Brown shale
3590	3594	4	Shale & shells
3594	3612	8	Brown sandy shale
3612	3620	8	Brown shale
3620	3628	8	Dark sandy shale
3628	3634	6	Brown shale
3634	3651	7	Dark sandy shale
3651	3654	3	Hard shell
3654	3659	5	Shale
3659	3667	8	Dark shale
3667	3672	5	Dark sandy shale
3672	3674	2	Shale

CALIFORNIA STATE MINING BUREAU

LOG OF OIL OR GAS WELL—Continued.

FIELD Montebello COMPANY Pan American Petroleum Co.

Township 1-S Range 12-W Section 35 Number of well 1

FORMATIONS PENETRATED BY WELL

DEPTH TO		Thickness	Name of Formation
Top of Formation	Bottom of Formation		
3355	3360	5	Sandy shale
3360	3362	2	Sandy shale
3362	3365	3	Sand, shows brea
3365	3378	8	Sand
3378	3381	3	Hard sand
3381	3384	3	Sand
3384	3393	9	Sand and gravel
3393	3398	5	Gravel
3398	3400	2	Sand
3400	3406	6	Gray sand
3406	3417	11	Sand and gravel
3417	3427	10	Sandy shale
3427	3430	3	Dark shale
3430	3433	3	Gray sand
3433	3450	17	Sandy shale and boulders
3450	3463	13	Shale and sand
3463	3477	14	Dark shale
3477	3495	18	Sandy shale
3495	3507	12	Shale
3507	3508	1	Hard shell
3508	3512	4	Shale
3512	3528	16	Sandy shale
3528	3539	11	Shale
3539	3554	15	Dark shale
3554	3556	2	Hard shell
3556	3568	12	Sandy blue shale
3568	3571	3	Dark shale
3571	3584	13	Sandy brown shale
3584	3590	6	Brown shale
3590	3594	4	Shale and shell
3594	3612	8	Brown sandy shale
3612	3620	8	Brown shale
3620	3628	8	Dark sandy shale
3628	3634	6	Brown shale
3634	3651	17	Dark sandy shale
3651	3654	3	Hard shell
3654	3659	5	Shale
3659	3667	8	Dark shale
3667	3672	5	Dark sandy shale
3672	3674	2	Shale
3674	3683	9	Dark sandy shale
3683	3703	20	Shale
3703	3711	8	Dark sandy shale
3711	3715	4	Shale
3715	3725	10	Sandy shale
3725	3729	4	Shell
3729	3734	5	Brown shale
3734	3737	3	Sandy shale

STATE MINING BUREAU
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DEC 24 1915
LOS ANGELES

37 37
3568

769

CALIFORNIA STATE MINING BUREAU

LOG OF OIL OR GAS WELL—Continued.

FIELD Montebello COMPANY Pan American Petroleum Co.

Township 1-S Range 12-W Section 35 Number of well 1

FORMATIONS PENETRATED BY WELL

DEPTH TO		Thickness	Name of Formation
Top of Formation	Bottom of Formation		
3737	3739	2	Shale
3739	3740	1	Brown shale
3740	3741	1	Shell
3741	3744	3	Brown shale
3744	3750	6	Dark sandy shale
3750	3753	3	Sandy shale
3753	3760	7	Dark sandy shale
3760	3767	7	Brown shale
3767	3772	5	Shale
3772	3775	3	Shell
3775	3777	2	Hard shale and shell
3777	3789	12	Shale
3789	3791	2	Hard shell showing sand and gas
3791	3793	2	Shell showing much gas
3793	3800	7	Sandy shale
3800	3804	4	Hard shale
3804	3806	2	Hard shell
3806	3816	10	Sand
3816	3824	8	Hard sand
3824	3828	4	Hard sand very fine
3828	3834	6	Sand
3834	3838	4	Gravel
3838	3841	3	Coarse sand
3841	3849	8	Sand and gravel
3849	3854	5	Sand
3854	3861	7	Gravel
3861	3880	19	Coarse sand and gravel
3880	3885	5	Coarse sand
3885	3888	3	Hard sand
3888	3892	4	Gravel
3892	3899	7	Fine hard sand
3899	3915	16	Coarse sand
3915	3917	2	Gravel
3917	3920	3	Coarse sand
3920	3923	3	Coarse sand

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167
3843
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39
37
5 2

3923
3838
85

California State Mining Bureau

DEPARTMENT OF PETROLEUM AND GAS

Report on Test of Water Shut-off

No. T 1-484

Los Angeles Cal. Dec. 26 1918

By A. H. Davis

Montebello Cal. _____

Agent for Pan American Petroleum Company

DEAR SIR:

Operations well No. Tri City 1 Section 35 T. 18 R. 11 S. E. B. & M.

Montebello Oil Field, in Los Angeles County, was on 12/21/18 1918, tested

witnessed as follows C. C. Thoms, designated by the supervisor, was present as prescribed in Section 19

Chapter 718, Statutes 1915, and there were also present T. E. Lloyd, foreman; J. C. Reese, driller;

K. A. McComb, tool dresser;

Location of the water tested _____ (Top) _____ (Bottom, etc.)

Depth and manner of water shut-off _____ (Casing cemented, landed, or hole plugged up)

Casing record of well see below

Reported total depth of hole not reported feet. Bailer went to 2930 feet and brought up pieces of set cement

Water bailed out to _____ feet at _____ (Time and date) At _____ (Time and date)

bailer run to 2930 feet.

Result of bailing test _____

Result of pumping test _____

Date well put to pumping _____ Pump depth _____

At the end of _____ days well made _____ barrels of fluid of which _____ per cent was water, coming from _____

Fluid level before water was shut off _____ feet; after water test _____ feet.

The representative of this department visited the well to witness the location and note the setting of a cement plug which was reported as placed in the well extending between depths of 2966' and 2940' as recommended in our report No. P 1-548 dated Dec 2, 1918. The casing record of the well as taken from records furnished by the company is as follows:

- 1598' 2" of 12 $\frac{1}{2}$ " casing cemented
- 3215' 7" of 10" casing frozen, shot at 3200' and 2936' to 2966'
- 3335' 5" of 8 $\frac{1}{2}$ " casing pulled back and cemented at 3275'; shot off and pulled from 3200'
- 3843' 2" of 6-5/8" casing shot at 3450' and 3380' and pulled from 3380'
- 3894' 2" of 4 $\frac{1}{2}$ " casing shot at 3700', 3550' and 3450' and pulled from 3450'

Mr. Lloyd furnished Mr. Thoms with the following information:

The well was shot with a 30' sausage shot containing 28# of 80% gelatine between depths of 2966' and 2936' after which the well was cleaned out to a depth of 2970' and 22 sacks of cement put in by dump bailer on Dec. 22, 1918.

State Oil and Gas Supervisor.

By M. J. Sullivan Deputy

CALIFORNIA STATE MINING BUREAU

DEPARTMENT OF PETROLEUM AND GAS

Report on Test of Water Shut-off

1-484

No. T-----

2

Page-----

COMPANY PAN AMERICAN PETROLEUM-----

Well No. Tri-City 1 36 T 18 R 11W S. B. B. & M.

At 11 A. M. Dec. 24, 1918, a representative of this department witnessed the following at the well. The top of soft cement was found at a depth of 2920' and the bailer spudded down to a depth of 2930' where the cement was found set hard. The test as witnessed together with information furnished by the company shows that a cement plug 40' long has been placed in the well extending between depths of 2970' and 2930' as recommended by this department.

Oral approval given Supt. A. H. Davis, by Mr. Thoms to continue the work of abandoning the well in accordance with the recommendations contained in our report No. P 1-572 dated Dec. 24, 1918, is hereby confirmed.

R. P. McLAUGHLIN, State Oil and Gas Supervisor

By M. J. ... Deputy

California State Mining Bureau

DEPARTMENT OF PETROLEUM AND GAS

Report on Proposed Operations

No. P 1-572

Los Angeles

Cal. Dec. 24

1918

Mr. A. H. Davis

Montebello

Cal.

Agent for PAN AMERICAN PETROLEUM Company

DEAR SIR:

Tri City

Your proposal to Abandon well No. 1 Section 35 T. 18 R. 127 S. B. B. & M.,

Montebello

Oil Field Los Angeles

County, dated Dec. 23 1918

has been examined in conjunction with records filed in this office.

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

RECORDS:

The log of the well filed with this department shows the following:-
Total drilled depth 3923'. Casing record:- 12 $\frac{1}{2}$ " - 1598'-2", 10" - 3215'-7",
8 $\frac{1}{4}$ " - 3335' - 5", 6-5/8" - 3843'-2", 4 $\frac{1}{2}$ " - 3894'-2". A brief history of the well
is as follows:- The 12 $\frac{1}{2}$ " casing was cemented at 1598' - 2" with 160 sacks of cement.
Water was not shut off. 12 $\frac{1}{2}$ " casing recemented at same depth with 40 sacks of cement
pumped in through tubing. Tests conducted at the well indicated that 12 $\frac{1}{2}$ " casing ce-
mented at 1598'-2" did not prevent water from above that depth from passing to
lower levels in the well. Tests also indicated that water was entering the well
from formations encountered below shoe of 12 $\frac{1}{2}$ " casing. In view of the above, approval
to continue drilling was issued. (See report No. T 1-147).

The well was drilled ahead to 3923', the casing record being shown above.
Under date of Oct. 7, 1918, the company submitted a supplementary notice reading in
part as follows:- "The proposed work is as follows:- Shoot 4 $\frac{1}{2}$ " casing as far as
possible below a depth of 3400' and pull out. Shoot 6-5/8" casing immediately above point
from where 4 $\frac{1}{2}$ " casing was pulled and put in a plug consisting of about 20 sacks of cement
at the point where shot was made. If possible pull out 6-5/8" casing, if not, shoot same
at a point below bottom of 8 $\frac{1}{4}$ " casing and pull out and plug up hole with cement to bottom
of 8 $\frac{1}{4}$ " casing and try and force cement back of the 8 $\frac{1}{4}$ " casing. If unable to get cement
in on account of no circulation, will remove 8 $\frac{1}{4}$ " casing as far below the bottom of 10"
casing as possible, then bridge hole & cement 8 $\frac{1}{4}$ " casing at about 3275' and make a test.
It is understood that the work and plugging to be done as outlined above is
with a view of abandoning the well." This proposal was approved (see report No. P 1-493
dated Oct. 9, 1918). The following work was reported by the company: Shot off 4 $\frac{1}{2}$ " at
3700', 3550', and 3450' and pulled 3450' from the well, leaving 4 $\frac{1}{2}$ " junk from 3450'
to 3894' -2". Twenty sacks of cement were then dumped in the well. The 6-5/8" casing
was then shot at 3450' and 3380' and 3380' pulled from the well, leaving 6-5/8" junk
from 3380' to 3843' -2". The 8 $\frac{1}{4}$ " casing was then pulled back to 3272 feet and 20 sacks
of cement were put in with dump bailer at 3275'. The 8 $\frac{1}{4}$ " casing was then cemented
at 3275' with 80 sacks of cement pumped in through tubing. Test of water shut off
witnessed by this department showed water to be entering the well. (See report T 1-436
dated Nov. 19, 1918). Under date of Nov. 20, 1918, the company submitted a
supplementary notice reading in part as follows: - "The proposed work is as follows: To
dump cement in the bottom of the 8 $\frac{1}{4}$ ", shoot the 8 $\frac{1}{4}$ " off at about 3200' and pull same from

R. P. McLAUGHLIN,

State Oil and Gas Supervisor

(Continued)

By *M. J. Hurran* Deputy

CALIFORNIA STATE MINING BUREAU

DEPARTMENT OF PETROLEUM AND GAS

Report on Proposed Operations

No. P 1-572

Page 2

COMPANY Pan American Petroleum

Well No. Tri City 1 Sec. 35 T. 18 R. 127 S. B. B. & M.

hole. If not possible to remove 8 $\frac{1}{2}$ " after shooting at this depth, will shoot same at 50' intervals and remove same when gotten loose. Will then shoot 10" at about 3000' and dump in 20 sacks of cement. Then shoot 10" again with long shot from 2950' to 2960' and try to force cement back of casing in order to make test of brown sandy shale from 2951' to 2966'. The above work is in view to final abandonment of this well". This proposal was approved (see report No. P 1-540 dated Nov. 20, 1918).

Under date of Nov. 25, 1918, the company submitted a supplementary notice stating that after placing a cement plug consisting of 17 sacks of cement at 3275', that the 8 $\frac{1}{2}$ " casing had been shot at 3200' and that amount pulled from the hole. Ten sacks of cement were then dumped at 3200 ft. and the 10" shot at 3000'. It was found that the 10" was split at about 2836' and the company proposed the following procedure:- "To dump in 17 sacks of cement at 3000' and shoot the 10" with 28# sausage shot from 2936' to 2966'. Then dump in sufficient cement to make solid bridge to 2900'. Then run in string of 8 $\frac{1}{2}$ " casing and cement this on top of the bridge at 2900', using sufficient cement to extend up between the 8 $\frac{1}{2}$ " and the 10" and seal the break in the 10". When the cement is set to drill out to about 2940' and force cement out around the 10", if possible. Finally to drill out to about 2966' and make bailing test of the brown sandy shale logged from 2936' to 2966'." This proposal was approved (see report No. P 1-548, dated Dec. 2, 1918).

The notice from the company dated Dec. 23, 1918, states that the present conditions of the well is as follows:- "Original bottom 3923'. Present casing record: 12 $\frac{1}{2}$ " cemented at 1598' 2"
10" frozen at 3215' 7". This is shot off at 3200', and from 2936' to 2966'. 8 $\frac{1}{2}$ " junk from 3200' to 3335' 5"
6-5/8" junk from 3380' to 3843' 2"
4 $\frac{3}{8}$ " junk from 3450' to 3894' 2"
Cement plug of 22 sacks of cement placed at 2970'."

PROPOSAL:

"The proposed work is as follows: Pull as much of 12 $\frac{1}{2}$ " and 10" as possible and place cement plug in top of hole."

RECOMMENDATION:

In accordance with the oral agreement made between Mr. A. H. Davis,

(Continued)

R. P. McLAUGHLIN,
State Oil and Gas Supervisor

By M. J. Korman Deputy

CALIFORNIA STATE MINING BUREAU

DEPARTMENT OF PETROLEUM AND GAS

Report on Proposed Operations

No. P. _____

1-572

Page _____

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COMPANY _____

PAN AMERICAN PETROLEUM

Well No. Tri City Sec. 35 T. 1B R. 12W S. B. B. & M.

Superintendent for the company and Mr. McGregor of this department, it is recommended that the well be abandoned as follows:-

(1) A representative of this department to visit the well to witness the measurement to the top of the cement plug placed at 2970 feet, and also whether or not the cement has properly set.

(2) Should it be found that the cement is set hard, the 10" casing to be freed at the greatest depth possible and pulled from that point.

(3) After pulling 10" casing a bridge to be placed at a depth of about 1615 ft. and a solid cement plug placed against the formations from that point up into the 12½" casing at least 10 ft.

(4) The 12½" casing should then be pulled from where it can be freed and a cement plug placed in the top of the hole as outlined in the company's notice.

Upon completion of the work, this department should be furnished a complete record of same in duplicate on our form 102 (Subsequent Work Report), which report should cover the following points: Location and size of all shots placed in the well, location, size and material of all plugs placed, location, size and amount of all casing left in the well and the names of all workmen employed on the work.

R. P. McLAUGHLIN,

State Oil and Gas Supervisor

By M. J. Kinnear Deputy

CALIFORNIA STATE MINING BUREAU

Department of Petroleum and Gas

STATE MINING BUREAU
RECEIVED

DEC 23 1918

LOS ANGELES OFFICE

Notice of Intention to Abandon Well

This notice must be given at least five days before work is to begin

Montebello Cal. Dec. 23, 1918.

Mr. M. J. Kirwan,

Deputy State Oil and Gas Supervisor

Los Angeles, Cal.

DEAR SIR:

In compliance with Section 16, Chapter 718, Statutes of 1915, notice is hereby given that it is our intention to abandon well number Tri-City 1 Section 35 T. 1S R. 12W, S. B. B. & M.,
Montebello Oil Field Los Angeles, County,
commencing work on the 24th day of Dec. 1918.

The present condition of the well is as follows:

" Original bottom 3923'.

Present casing record: 12 $\frac{1}{2}$ " cemented at 1598' 2"
10" frozen at 3215' 7". This is
shot off at 3200', and from 2936' to 2966'.
8 $\frac{1}{4}$ " junk from 3200' to 3335' 85"
6-5/8" junk from 3380' to 3843' 2"
4 $\frac{1}{2}$ " junk from 3450' to 3894' 2"
Cement plug of 22 sacks of cement placed at 2970'. "

" The proposed work is as follows:

Pull as much of 12 $\frac{1}{2}$ " and 10" as possible and place
cement plug in top of hole. "

Respectfully yours,

PAN AMERICAN PETROLEUM CO.

(Name of Company or Operator)

By

A. J. Davis

California State Mining Bureau

DEPARTMENT OF PETROLEUM AND GAS

Report on Proposed Operations

No. P. 1-548

Los Angeles Cal. Dec. 2 1918

Mr. A. H. Davis

Montebello, Cal.

Agent for PAN AMERICAN PETROLEUM Company

DEAR SIR: **Supplementary** **Tri City**
Your proposal to **drill** Well No. **1**, Section **35**, T. **18**, R. **127**, S. **8**, B. & M.,
Montebello Oil Field **Los Angeles** County, dated **Nov. 25** 1918.

has been examined in conjunction with records filed in this office.

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

RECORDS: The well was originally drilled to a depth of 3923' with a casing record as follows:

12 $\frac{1}{2}$ " casing cemented at 1598' - 2"
10" " froze " 3215' - 7"
8 $\frac{1}{2}$ " " landed " 3336' - 5"
6-5/8" " landed " 3843' - 2"

The following work has since been done at the well: Shot off 4 $\frac{1}{2}$ " casing at 3700', 3550', and 3450' and pulled 3450' of 4 $\frac{1}{2}$ " casing from the hole. Dumped 20 sacks of cement in hole. Shot 6-5/8" casing off at 3450' and 3380' and pulled 6-5/8" from 3380'. Pulled 8 $\frac{1}{2}$ " casing up to 3272'. Dumped 20 sacks of cement at 3275' and set 8 $\frac{1}{2}$ " casing at 3275'.

A test of water shut off witnessed by this department at the well subsequent to the work noted above showed water to be entering the well (see report No. T 1-436 dated Nov. 19, 1918).

A proposal from the company dated Nov. 20, 1918, was approved with report No P 1-540 dated Nov. 20, 1918.

The proposal dated Nov. 25, 1918, states:- " In accordance with your recommendation P 1-540, we shot the 8 $\frac{1}{2}$ " off at 3200' and pulled same from hole, after first dumping 17 sacks on bottom. Dumped 10 sacks cement at 3200' and shot 10" at 3000'. Found 10" split by shot at approximately 2836'. It was not feasible, therefore, to continue the test as previously outlined on account of the 10" being split."

PROPOSAL:-

"We now propose to dump 17 sacks of cement at 3000' and shoot the 10" with 28# sausage shot from 2936' to 2966'. Then dump in sufficient cement to make solid bridge to 2900'. Then run in string of 8 $\frac{1}{2}$ " casing and cement this on top of the bridge at 2900', using sufficient cement to extend up between the 8 $\frac{1}{2}$ " and the 10" and seal the break in the 10". When the cement is set to drill out to about 2940' and force cement out around the 10", if possible, finally to drill out to about 2966', and make bailing test of the brown sandy shale logged from 2936' to 2966'.

This work is being done with view to final abandonment of this well."

R. P. McLAUGHLIN,

State Oil and Gas Supervisor.

By *[Signature]* Deputy

CALIFORNIA STATE MINING BUREAU

DEPARTMENT OF PETROLEUM AND GAS

Report on Proposed Operations

No. P. 1-548

Page 2

COMPANY A. H. Davis

Tri City

Well No. 1 Sec. 38 T. 18 R. 12W S. B. B. & M.

RECOMMENDATIONS

The work as outlined in the proposal is satisfactory. However, this department offers in the form of a suggestion the following change in the outlined work: After shooting the 10" casing from 2936' to 2863' as proposed, that the cement plug be only brought up to a depth of about 2940 feet (instead of 2900 feet as proposed) and that the 8 1/2" casing be cemented at this point instead of 2900', as outlined in the proposal. In this way there is a chance to effect a bond with cement between the 8 1/2" casing and the formation (the 10" casing having been shattered by the shot) and a shut off effected even though it is not possible to force cement back of the 10" casing. In any event, even though a shut off is not effected, the 8 1/2" and 10" casing will be cemented together, accomplishing the same result as outlined in the company's notice and the company would still be in a position to attempt to force cement back of the 10" casing, as outlined in their proposal.

NOTE:-

This report is made to supersede and nullify Report No. F 1-545 dated Nov. 27, 1918, in which it was erroneously stated (1) that the well was located in Orange County, instead of Los Angeles County, and (2) that the total drilled depth of the well was 2925' instead of 2923'.

R. P. McLAUGHLIN,
State Oil and Gas Supervisor

By M. J. W. W. W. Deputy

CALIFORNIA STATE MINING BUREAU

LOG OF OIL OR GAS WELL

STATE MINING BUREAU
RECEIVED
DEC 16 1918
LOS ANGELES OFFICE

FIELD Montebello COMPANY PAN AMERICAN PETROLEUM CO.
Township 1S Range 12W Section 35 Number of well 1
Tri City

~~In compliance with the provisions of Chapter 718, Statutes 1915, the information given herewith is a complete and correct record of all work done on the well since the previous record, dated Dec. 7, 1918, was filed and as far as I know is complete and correct~~

Signed A. H. Davis
(President, Secretary or Agent)

Date Dec. 14, 1918 Title Superintendent

Cleaned out to 2970'. Shot pipe from 2936' to 2966'. Pumped in 22 sacks cement.

CK
S.B.M.

The gravity of oil was _____ degrees Baumé. Water in oil amounted to _____ per cent.

NAMES OF DRILLERS

NAMES OF TOOL DRESSERS

E. Baker.

W. B. Rogers.

Frank Perry.

Henry Sinclair

F. A. Burkett

Geo. W. Young.

Date drilling started _____

Date well was completed _____

FORMATIONS PENETRATED BY WELL

DEPTH TO		Thickness	Name of Formation
Top of Formation	Bottom of Formation		
0	10	10	Surface
10	150	140	Sand & gravel
150	165	15	Yellow Clay
165	255	90	Blue Shale
255	262	7	Shell
262	315	53	Sand
315	400	85	Sand & Gravel
400	530	130	Blue Shale
530	540	10	Sand
540	965	425	Blue Shale
965	980	15	Hard Shale & Shells
980	1215	235	Blue Shale
1215	1345	130	Gray Shale & Boulders
1345	1355	10	Conglomerate
1355	1380	25	Gray shale & Bldrs.
1380 ^m	1390	10	Hard sand
1390	1420	30	Blue shale
1420	1450	30	Conglomerate
1450	1460	10	Hard sand
1460	1474	14	hard sand & Bldrs
1474	1480	6	Running sand & Bldrs
1480	1500	20	Conglomerate
1500	1515	15	Blue shale
1515	1528	13	Conglomerate
1528	1558	130	Blue shale
1558	1663	5	Shell
1663	1668	2	Sand showing gas
1668	1673	8	Sand
1673	1691	8	Hard sand
1691	1695	4	Conglomerate
1695	1710	15	Sticky blue shale
1710	1774	64	Blue shale
1774	1794	20	Blue shale
1794	1840	46	Blue shale
1840	1874	34	Sandy blue shale
1874	1904	20	Sandy shale
1904	1934	30	Hard sandy shale
1934	1941	7	Hard sand
1941	1958	17	Blue shale
1958	1980	22	Sticky shale
1980	2002	22	Brown shale
2002	2029	27	Sticky shale
2029	2082	53	Sandy shale
2082	2193	111	Sandy shale
2193	2278	85	Blue shale
2278	2298	20	Shale & Bldrs
2298	2346	48	Hard sand

2346	2352	6	Hard sand
2352	2359	7	Brown sandy shale
2359	2365	6	Hard sand
2365	2368	3	Hard sandy shale
2368	2375	7	Hard sand
2375	2381	6	Hard shale & Bldrs
2381	2431	50	Sandy shale
2431	2481	50	Sandy shale & Bldrs
2481	2551	70	Shale & Bldrs
2551	2605	54	Sandy shale & Bldrs
2605	2620	15	Hard sand
2620	2636	16-Shale &	Bldrs
2636	2652	16	Sandy shale
2652	2667	15	Sandy shale
2667	2717	50	Sandy shale & Bldrs
2717	2788	71	Sandy shale
2788	2794	6	Tough sandy shale
2794	2936	142	Sandy shale
2936	2951	15	Sandy shale
2951	2966	15	Brown sandy shale
2966	3028	62	Sandy shale
3028	3036	8	Hard sandy shale
3036	3127	91	Sandy shale
3127	3134	7	Hard sand
3134	3140	6	Hard sand
3140	3154	14	Sandy shale
3154	3165	11	Shale
3165	3202	37	Sandy shale
3202	3210	8-Sandy shale &	Bldrs
3210	3214	4	Hard sand
3214	3218	4	Sandy shale
3218	3224	6	Hard sandy shale
3224	3230	6	Hard sand
3230	3232	2	Shell
3232	3249	17	Sandy shale & Bldrs
3249	3250	1	Shell
3250	3285	385	Sandy shale & Bldrs
3285	3289	4	Hard sand
3289	3290	1	Shell
3290	3303	13	Hard sand
3303	3318	15	Sand
3318	3320	2	Sand
3320	3340	20	Sand & Bldrs
3340	3342	22	Sand, gravel & Bldrs
3342	3347	5	Gravel & Bldrs
3347	3350	3	Sand & Bldrs
3350	3355	5	Sand & Bldrs
3355	3360	5	Sandy shale
3360	3362	2	Sandy shale
3362	3365	3	Sand, shaws brea
3365	3378	8	Sand
3378	3381	3	Hard sand
3381	3384	3	Sand
3384	3393	9	Sand & gravel
3393	3398	5	Gravel
3398	3400	2	Sand
3400n	3406	6	Gray sand
3406	3417	11	Sand & gravel
3417	3427	10	Sandy shale
3427	3430	3	Dark shale
3430	3433	3	Gray sand
3433	3450	17	Sandy shale & Bldrs
3450	3463	13	Shale & sand
3463	3477	14	Dark shale

STATE MINING BUREAU
DEC 9 1918
OFFICE

CALIFORNIA STATE MINING BUREAU

LOG OF OIL OR GAS WELL

FIELD Montebello COMPANY PAN AMERICAN PETROLEUM COMPANY
Tri City
Township 1S Range 12W Section 35 Number of well 1

~~In compliance with the provisions of Chapter 718 of Statutes of 1915, the information given herewith is a complete and correct record of all work done on the well since the previous record, dated Nov. 30, 1918, was filed. and as far as I know is complete and correct.~~

Signed A. H. Davis
(President, Secretary or Agent)

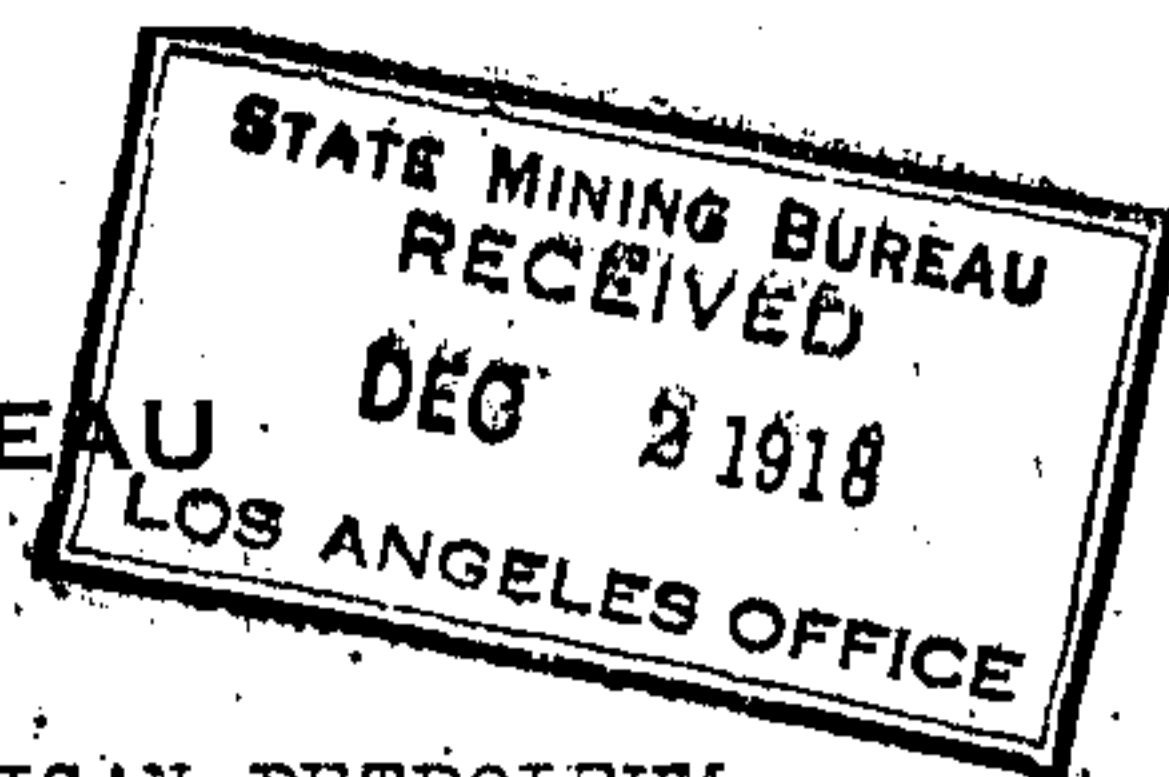
Date Dec 7, 1918 Title Superintendent

Stands cemented.

CK
GBM

CALIFORNIA STATE MINING BUREAU

LOG OF OIL OR GAS WELL



FIELD Montebello COMPANY PAN AMERICAN PETROLEUM

Township T1S Range R12W Section 35 Number of well 1 Tri City

~~In compliance with the provisions of Chapter 718, Statutes 1915,~~ the information given herewith is a ~~complete and~~
~~correct~~ record of all work done on the well since the previous record, dated Nov. 25, 1918, was filed,
and as far as I know is complete and correct.

Signed A. H. Davis
(President, Secretary or Agent)

Date Nov. 30, 1918 Title Superintendent

Bridged hole from 3015' to 3000' and dumped in
17 sacks of cement. Well stands cemented.

California State Mining Bureau

DEPARTMENT OF PETROLEUM AND GAS

Report on Proposed Operations

No. P 1-545

Los Angeles, Cal. Nov. 27th, 1918.

Mr. A. H. Davis,

Montebello, Cal.

Agent for Pan-American Petroleum Company

DEAR SIR:

supplementary Tri City
Your proposal to drill Well No. 1, Section 35, T. 18, R. 12 W., S. 11, B. & M.,

Montebello Oil Field Orange County, dated Nov. 25, 1918.

has been examined in conjunction with records filed in this office.

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

RECORDS: The well was originally drilled to a depth of 2923', with a casing record as follows:

12 $\frac{1}{2}$ "	casing	cemented	at	1598'-2"
10"	"	froze	"	3215'-7"
8 $\frac{1}{2}$ "	"	landed	"	3335'-5"
6-5/8"	"	"	"	3843'-2"

The following work has since been done at the well: Shot off 4 $\frac{1}{2}$ " casing at 3700', 3550', and 3450' and pulled 3450' of 4 $\frac{1}{2}$ " casing from the hole. Dumped 20 sacks of cement in hole. Shot 6-5/8" casing off at 3450' and 3380' and pulled 6-5/8" from 3380'. Pulled 8 $\frac{1}{2}$ " casing up to 3272'. Dumped 20 sacks of cement at 3275' and set 8 $\frac{1}{2}$ " casing at 3275'.

A test of water shut off witnessed by this department at the well subsequent to the work noted above showed water to be entering the well (see report No. T 1-436 dated Nov. 19, 1918).

A proposal from the company dated Nov. 20, 1918, was approved with report No. P 1-540 dated Nov. 20, 1918.

~~The proposal~~ The proposal dated Nov. 25, 1918, states: "In accordance with your recommendation, P 1-540, we shot the 8 $\frac{1}{2}$ " off at 3200' and pulled same from hole, after first dumping 17 sacks on bottom. Dumped 10 sacks cement at 3200' and shot 10" at 3000'. Found 10" split by shot at approximately 2836'. It was not feasible, therefore, to continue the test as previously outlined on account of the 10" being split."

PROPOSAL: "We now propose to dump 17 sacks of cement at 3000' and shoot the 10" with 28# sausage shot from 2936' to 2966'. Then dump in sufficient cement to make solid bridge to 2900'. Then run in string of 8 $\frac{1}{2}$ " casing and cement this on top of the bridge at 2900', using sufficient cement to extend up between the 8 $\frac{1}{2}$ " and the 10" and seal the break in the 10". When the cement is set to drill out to about 2940' and force cement out around the 10", if possible. Finally to drill out to about 2966' and make bailing test of the brown sandy shale logged from 2936' to 2966'.

This work is being done with view to final abandonment of this well."

R. P. McLAUGHLIN,
State Oil and Gas Supervisor.

By M. J. Murray Deputy

(Continued)

CALIFORNIA STATE MINING BUREAU

DEPARTMENT OF PETROLEUM AND GAS

Report on Proposed Operations

No. P. 1-545

Page 2

COMPANY A. H. Davis,

Tri-City

Well No. 1 Sec. 36, T. 1 S., R. 12 W., S. B. B. & M.

RECOMMENDATION: The work as outlined in the proposal is satisfactory.

However, this department offers in the form of a suggestion the following change in the outlined work: After shooting the 10" casing from 2936' to 2966' as proposed, that the cement plug be only brought up to a depth of about 2940 feet (instead of 2900 feet as proposed) and that the 8 $\frac{1}{2}$ " casing be cemented at this point instead of 2900' as outlined in the proposal. In this way there is a chance to effect a bond with cement between the 8 $\frac{1}{2}$ " casing and the formation (the 10" casing having been shattered by the shot) and a shut off effected even though it is not possible to force cement back of the 10" casing. In any event, even though a shut off is not effected, the 8 $\frac{1}{2}$ " and 10" casing will be cemented together, accomplishing the same result as outlined in the company's notice and the company would still be in a position to attempt to force cement back of the 10" casing as outlined in their proposal.

R. P. McLAUGHLIN,

State Oil and Gas Supervisor

By M. J. Curran Deputy

CALIFORNIA STATE MINING BUREAU

Department of Petroleum and Gas

RECEIVED

NOV 26 1918

LOS ANGELES OFFICE

SUPPLEMENTARY NOTICE

Montebello Cal. Nov. 25, 1918

Mr. M. J. Kirwan,

Deputy State Oil and Gas Supervisor

Los Angeles, Cal.

DEAR SIR:

Please be advised that our ^{supplementary} notice to you dated Nov. 20, 1918, stating our intentionto ^{Tri City} drill well number 1 Section 35 T 1 S R 12 W, S. B. B. & M.,
(Drill, deepen, redrill, test, abandon)

Montebello Oil Field, Los Angeles County,

must be amended on account of changed or recently discovered conditions.

The new conditions are as follows: In accordance with your recommendation, P 1-540, we shot the 8 $\frac{1}{4}$ " off at 3200' and pulled same from hole, after first dumping 17 sacks on bottom. Dumped 10 sacks cement at 3200' and shot 10" ~~off~~ at 3000'. Found 10" split by shot at approximately 2836'. It was not feasible, therefore, to continue the test as previously outlined on account of the 10" being split.

We now propose " to dump in 17 sacks of cement at 3000' and shoot the 10" with 28 $\frac{1}{2}$ " sausage shot from 2936' to 2966'. Then dump in sufficient cement to make solid bridge to 2900'. Then run in string of 8 $\frac{1}{2}$ " casing and cement this on top of the bridge at 2900', using sufficient cement to extend up between the 8 $\frac{1}{2}$ " and the 10" and seal the break in the 10". When the cement is set to drill out to about 2940' and force cement out around the 10", if possible. Finally to drill out to about 2966' and make bailing test of the brown sandy shale logged from 2936' to 2966'. "

This work is being done with view to final abandonment of this well.

Respectfully yours,

PAN AMERICAN PETROLEUM COMPANY

(Name of Company)

By *A. H. Davis*

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CALIFORNIA STATE MINING BUREAU

Department of Petroleum and Gas

RECORD OF WELL SHOOTING

COPIED FROM REPORTS BY ALLISON & BERRY CO.

COMPANY Petroleum Midway. FIELD Montebello.

LEASE Tri-City WELL No. 1 SEC. 35 T. 1 S., R. 12 W. S. B. B. & M.

Date 11/21/18. At 3200 ft. with _____ sticks 25 lbs. 80% gelatin dynamite

Purpose To loosen pipe.

Torpedoes, number 1 Diameter 4 1/2 Length 24

Number of caps 2 Size casing 8 1/2 Kind of well _____

Shooter M. A. Pryor.

Date 11/24/18. At 3000 ft. with _____ sticks 25 lbs. 80% gelatin dynamite

Purpose To cement.

Torpedoes, number 1 Diameter 4 1/2 Length 24

Number of caps 2 Size casing 10 Kind of well _____

Shooter M. A. Pryor.

Date _____ At _____ ft. with _____ sticks _____ lbs. 80% gelatin dynamite

Purpose _____

Torpedoes, number _____ Diameter _____ Length _____

Number of caps _____ Size casing _____ Kind of well _____

Shooter _____

Date _____ At _____ ft. with _____ sticks _____ lbs. 80% gelatin dynamite

Purpose _____

Torpedoes, number _____ Diameter _____ Length _____

Number of caps _____ Size casing _____ Kind of well _____

Shooter _____

California State Mining Bureau

DEPARTMENT OF PETROLEUM AND GAS

Report on Proposed Operations

No. P 1-540

Los Angeles, Cal. Nov. 20, 1918.

Mr. A. H. Davis,

Montebello, Cal.

Agent for Pan American Petroleum Company

DEAR SIR:

Your Supplementary Drill Tri-City Well No. 1, Section 35, T1 S. R. 12 W. S. B. B. & M.,

Montebello Oil Field Los Angeles County, dated Nov. 20, 1918.

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 well was originally drilled to a depth of 3923', with casing record as follows:

12 $\frac{1}{2}$ "	casing	cemented	at	1598'-2"
10"	"	froze	"	3215'-7"
8 $\frac{1}{2}$ "	"	landed	"	3385'-5"
6-5/8"	"	"	"	3843'-2"

Since this time the following work has been done at the well:

"Shot off 4 $\frac{1}{2}$ " casing at 3700', 3550', and 3450' and pulled 3450' of 4 $\frac{1}{2}$ " casing from the hole. Dumped 20 sacks of cement in hole. Shot 6-5/8" casing off at 3450' and 3380' and pulled 6-5/8" casing from 3380'. Pulled 8 $\frac{1}{2}$ " casing up to 3272'. Dumped 20 sacks of cement at 3275' and set 8 $\frac{1}{2}$ " casing at 3275'.

A test of water shut off witnessed at the well subsequent to the work noted above showed water to be entering the well. For results of test see our Report No. T 1-436, dated Nov. 19, 1918.

The notice states the present condition of the well is as follows:

~~Records:~~
"12 $\frac{1}{2}$ " cemented at 1598' 2"
10" frozen at 3215' 7"
8 $\frac{1}{2}$ " cemented at 3275'
4 $\frac{1}{2}$ " junk 3450' - 3894'
6-5/8" junk 3380' - 3843'"

PROPOSAL:

"The proposed work is as follows:

"To dump cement in the bottom of the 8 $\frac{1}{2}$ " casing, shoot the 8 $\frac{1}{2}$ " off at about 3200' and pull same from hole. If not possible to remove 8 $\frac{1}{2}$ " after shooting at this depth, will shoot same at 50' intervals and remove same when gotten loose. Will then shoot 10" at about 3000' and dump in 20 sacks of cement. Then shoot 10" again with long shot from 2950' to 2960' and try to force cement back of casing in order to make test of brown sandy shale from 2951' to 2966'. The above work is in view to final abandonment of this well."

(Continued)

R. P. McLAUGHLIN,
State Oil and Gas Supervisor.

By [Signature] Deputy

CALIFORNIA STATE MINING BUREAU

DEPARTMENT OF PETROLEUM AND GAS

Report on Proposed Operations

No. P. 1-540

Page 2

COMPANY Pan American Petroleum.

Tri-City

Well No. 1 Sec. 35, T. 1 S. R. 12 W. S. B. B. & M.

RECOMMENDATION:

I recommend that the company clean out the well to a depth of 3285' and dump in sufficient cement to reach up to a depth of 3260' or 15' up inside the 8 $\frac{1}{2}$ " casing. After the placing of the above plug, it will be satisfactory to this department for the company to proceed with the work as proposed.

In case the company are unable to force cement out back of the 10" casing as proposed, a supplementary notice should be filed with this department giving details of work contemplated.

R. P. McLAUGHLIN,
State Oil and Gas Supervisor

By *M. J. Purman* Deputy

California State Mining Bureau

Department of Petroleum and Gas

RECEIVED
NOV 20 1918
LOS ANGELES OFFICE

Supplementary Notice
~~Notice of Intention to Deepen or Redrill Well~~

This notice should be given fifteen days before work begins

Montebello Cal. Nov. 20, 1918

Mr. M. J. Kirwan,

Deputy State Oil and Gas Supervisor

Los Angeles Cal.

DEAR SIR:

In compliance with Section 17, Chapter 718, Statutes of 1915, notice is hereby given that it is our intention to commence ^{supplementary} ~~the~~ work of ~~deepening or~~ ^{drilling} well number Tricity
(Cross out one word)

Section 35 T. 1 S. R. 12 W., Montebello Oil Field,
Los Angeles County.

The present condition of the well is as follows:

- // 12 1/2" cemented at 1598' 2"
- 10" frozen at 3215' 7"
- 8 1/4" cemented at 3275'
- 4 1/2" junk 3450' - 3894'
- 6-5/8' junk 3380' - 3843' "

" The proposed work is as follows:

To dump cement in the bottom of the 8 1/4", shoot the 8 1/4" off at about 3200' and pull same from hole. If not possible to remove 8 1/4" after shooting at this depth, will shoot same at 50' intervals and remove same when gotten loose. Will then shoot 10" at about 3000' and dump in 20 sacks of cement. Then shoot 10" again with long shot from 2950' to 2960' and try to force cement back of casing in order to make test of brown sandy shale from 2951' to 2966'. The above work is in view to final abandonment of this well. "

Respectfully yours,

PAN AMERICAN PETROLEUM CO.
(Name of Company or Operator)

By A. H. Davis

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California State Mining Bureau

DEPARTMENT OF PETROLEUM AND GAS

Report on Test of Water Shut-off

No. T 1-436

Los Angeles, Cal. Nov. 19, 1918.

Mr. A. H. Davis,
Montebello, Cal.

Agent for Pan American Petroleum Company

DEAR SIR:

Tri-City

Your well No. 1 Section 35, T. 1 S., R. 12 W., S.B. B. & M.,

Montebello Oil Field, in Los Angeles County, was on Nov. 15, 1918, tested

for shut-off of water. Mr. C. C. Thoms, designated by the supervisor, was present as prescribed in Section 19, Chapter 718, Statutes 1915, and there were also present, T. E. Lloyd, foreman, J. C. Reese, driller; A. Burns, tool dresser

Location of the water tested From above 3275' /tubing.
Depth and manner of water shut-off 8 1/2" casing cemented, 10/30/18, at 3275' with 80 sacks cement through/
Casing record of well 1698' of 12 1/2"; 3215' of 10"; 3275' of 8 1/2"
Reported total depth of hole 3285 feet. Bailer went to 3276'-6" and brought up sand and cement, showing no oil.
Water bailed out to 400 feet at 4 P.M., Nov. 13, 1918. At 4 P.M., Nov. 15, 1918.
bailer run to feet.

Result of bailing test Top of fluid (water) found at a depth of 106', well open 1'-6" below shoe of 8 1/2" casing. No oil was noted at test.

Result of pumping test
Date well put to pumping Pump depth
At the end of days well made barrels of fluid of which per cent was water, coming from
Fluid level before water was shut off feet; after water test feet.

Superintendent A. H. Davis furnished Mr. Thoms with the following record of work performed at the well in carrying out our recommendations. (See our report No. P 1-493, dated October 9, 1918):

Shot off 4 1/2" at 3700', 3550', and 3450' and pulled 3450' from hole.
Dumped 20 sacks of cement in hole. Shot 6-5/8" off at 3450' and 3380' and pulled 3380' from hole.
Pulled 8 1/2" back to 3272'. Dumped 20 sacks of cement at 3275'. Left 8 1/2" at 3275'.
Pumped 80 sacks of cement through 3" tubing at 3254'.

Mr. Lloyd stated that in bailing the well for test, the company were unable to bail the fluid to a depth greater than about 400', and that when bailed to this depth

R. P. McLAUGHLIN
State Oil and Gas Supervisor.

(Continued)

By Deputy

CALIFORNIA STATE MINING BUREAU

DEPARTMENT OF PETROLEUM AND GAS

Report on Test of Water Shut-off

No. T 1-436

Page 2

COMPANY Pan American Petroleum

Tri-City

Well No. 1 Sec. 36 T 1 S. R. 12 W. S. B. B. & M.

the water raised back up to a depth of 120' in 30 minutes.

The test as witnessed was not satisfactory, as water entered the well while standing bailed for test. The source of this water was not determined.

The company should file a supplementary notice with this department, outlining further work contemplated at this well, to remedy existing conditions.

R. P. McLAUGHLIN,
State Oil and Gas Supervisor

By *M. J. Sturman* Deputy

CALIFORNIA STATE MINING BUREAU
DEPARTMENT OF PETROLEUM AND GAS

Los Angeles, Cal. Nov. 8, 1918.

Pan American Petroleum Co.,

Montebello, Cal.

DEAR SIR:

I am in receipt of your notice dated Nov. 8th, 1918,

of Notice of Test of Water Shut-off Well No. 1 Tri-City

Section 35 T. 1 S. R. 12 W. S.B. B. & M.

Yours truly,

R. P. McLAUGHLIN,
State Oil and Gas Supervisor

Per *[Signature]*
Deputy

STATE MINING BUREAU
RECEIVED
NOV 9 1918
LOS ANGELES

CALIFORNIA STATE MINING BUREAU

Department of Petroleum and Gas

Notice of Test of Water Shut-off

This notice must be given at least five days before the test, and a longer time is desirable

Montebello Cal. Nov. 8th 1918

Mr. M. J. Kirwin,
Deputy State Oil and Gas Supervisor

Los Angeles, Cal.

DEAR SIR:

In compliance with Section 19, Chapter 718, Statutes of 1915, notice is hereby given that it is our intention to test the shut-off of water in well number 1 Section 35 T. 1S R. 12W, S. B. B. & M.,
Montebello Oil Field, Los Angeles County,
on the 14th day of November 1918

8 1/2" inch casing was cemented in ~~XXXXX~~ Sandy Shale & Boulders at 3275' on Oct. 30th 1918
(Formation) (Depth) (Date)

80 sacks of cement was used.

The through 3" tubing method was used in placing the cement.

Fluid level will be bailed to a depth of _____ feet and left undisturbed for at least 12 hours before your inspection.

The well is 3290 feet deep. There ~~is a plug of cement~~ is a plug of cement from 3923 feet to 3275 feet, consisting of cavings and cement

Respectfully yours,

Pan American Petroleum Co.
(Name of Company or Operator)

By A. H. Davis

114

CALIFORNIA STATE MINING BUREAU

Department of Petroleum and Gas

RECORD OF WELL SHOOTING

COPIED FROM REPORTS BY ALLISON & BERRY CO.

COMPANY Pan American Petroleum FIELD Montebello

LEASE Tri-City WELL No. 1 SEC. 35 T 1 S. R. 12 W. S. B. B. & M.

Date 10/23/18. At 3380 ft. with sticks 25 lbs. 80% gelatin dynamite

Purpose To loosen.

Torpedoes, number 1 Diameter 4 Length 3

Number of caps 2 Size casing 6 Kind of well

Shooter Alexander.

Date 12/9/18. At 2966 ft. with sticks 25 lbs. 80% gelatin dynamite

Purpose To cement.

Torpedoes, number 5 Diameter 3 Length 1.

Number of caps 5 Size casing 10 Kind of well

Shooter Alexander.

Date At ft. with sticks lbs. 80% gelatin dynamite

Purpose

Torpedoes, number Diameter Length

Number of caps Size casing Kind of well

Shooter

Date At ft. with sticks lbs. 80% gelatin dynamite

Purpose

Torpedoes, number Diameter Length

Number of caps Size casing Kind of well

Shooter

Well File

STATE MINING BUREAU
RECEIVED
NOV 9 1918
LOS ANGELES

CALIFORNIA STATE MINING BUREAU
Department of Petroleum and Gas

RECORD OF WELL SHOOTING

COPIED FROM REPORTS BY ALLISON & BERRY CO.

COMPANY PAN AMERICAN PETROLEUM CO. FIELD Montebello

LEASE Tri-City WELL No. 1 SEC. 35 T.13 R.12 W. S. B. B. & M.

Date October 8, 1918 At 3700 ft. with sticks 15# lbs. 80% gelatin dynamite

Purpose Loosen 4 1/2" Casing

Torpedoes, number 1 Diameter 2 1/2" Length 5'

Number of caps 2 sets Size casing 4-1/2" Kind of well Drilling

Shooter Allison & Alexander

Date Oct. 9th 1918. At 3550 ft. with sticks 15# lbs. 80% gelatin dynamite

Purpose Loosen 4 1/2" Casing

Torpedoes, number 1 Diameter 2 1/2" Length 5'

Number of caps 2 Sets Size casing 4 1/2" Kind of well Drilling

Shooter Allison & Alexander

Date October 13rd 1918 At 3450' ft. with sticks 15 lbs. 80% gelatin dynamite

Purpose Loosen 4 1/2" Casing

Torpedoes, number 1 Diameter 2 1/2" Length 5'

Number of caps 2 Set Size casing 4 1/2" Kind of well Drilling

Shooter Allison & Alexander

Date October 23rd At 3380 ft. with sticks 25# lbs. 80% gelatin dynamite

Purpose Loosen 6-5/8" Casing

Torpedoes, number 1 Diameter 4" Length 3"

Number of caps 2 Set Size casing 6-5/8" Kind of well Drilling

Shooter Allison & Alexander

California State Mining Bureau

DEPARTMENT OF PETROLEUM AND GAS

Report on Proposed Operations

No. P 1-493

Los Angeles Cal. Oct. 9 1918

Mr. A. H. Davis, Superintendent,

MONTEBELLO Cal.

Agent for PAN-AMERICAN-PETROLEUM Company

DEAR SIR:

Your Supplementary Tri City
proposal to drill Well No. 1 Section 35 T. 1 S R. 12 W S. B. B. & M.

MONTEBELLO Oil Field Los Angeles County, dated Oct. 7 1918

has been examined in conjunction with records filed in this office.

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

RECORDS:

The notice states that the present condition of the well is as follows:

" 12 $\frac{1}{2}$ " casing cemented at 1598' 2"
10" casing froze at 3215' 7"
8 $\frac{1}{2}$ " casing landed at 3335' 5"
6-5/8" casing froze at 3843' 2"
4 $\frac{1}{2}$ " casing froze at 3894' 2" "
Depth of hole 3923'.

PROPOSAL:

The proposed work is as follows:

" Shoot 4 $\frac{1}{2}$ " casing as far as possible below a depth of 3400' and pull out. Shoot 6-5/8" casing immediately above point from where 4 $\frac{1}{2}$ " casing was pulled and put in a plug consisting of about 20 sacks of cement at the point where shot was made. If possible pull out 6-5/8" casing, if not, shoot same at a point below bottom of 8 $\frac{1}{2}$ " casing and pull out and plug up hole with cement to bottom of 8 $\frac{1}{2}$ " casing and try and force cement back of the 8 $\frac{1}{2}$ " casing. If unable to get cement in on account of no circulation, will remove 8 $\frac{1}{2}$ " casing as far below the bottom of 10" casing as possible, then bridge hole and cement 8 $\frac{1}{2}$ " casing at about 3275' and make a test. It is understood that the work and plugging to be done as outlined above is with a view of abandoning the well"

RECOMMENDATION:

The proposal to do certain work at this well as outlined by the company in their Notice of October 7th, above quoted, is satisfactory to this department.

MJK-G

R. P. McLAUGHLIN,
State Oil and Gas Supervisor.

By [Signature] Deputy

CALIFORNIA STATE MINING BUREAU

Department of Petroleum and Gas

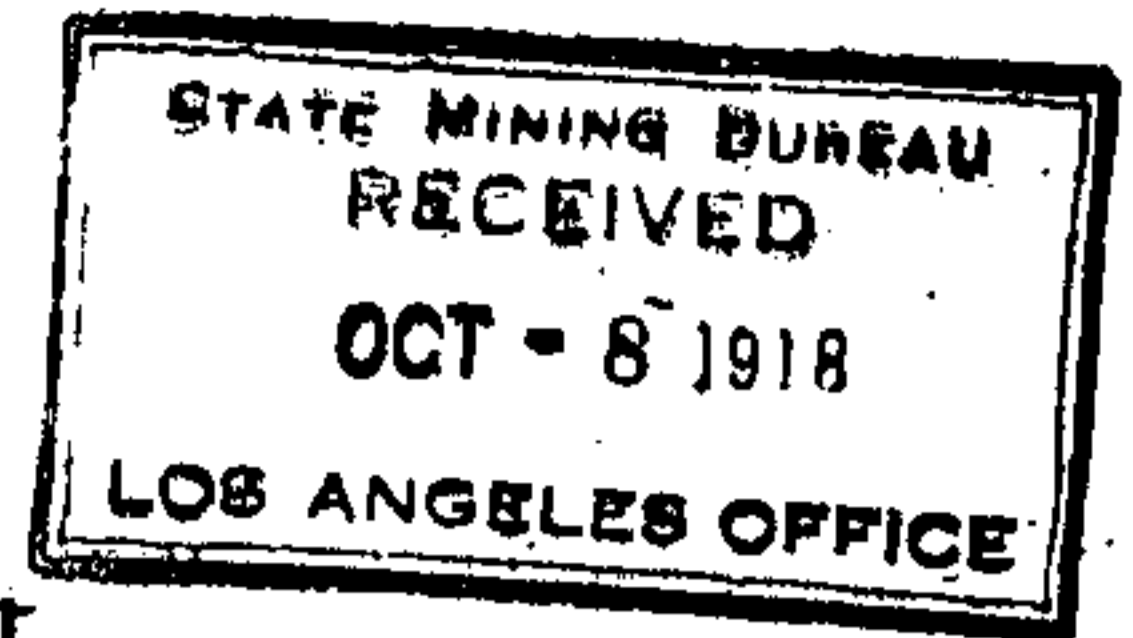
RECORD OF WELL SHOOTING

COPIED FROM REPORTS BY ALLISON & BERRY CO.

COMPANY Pan American Petroleum Company. FIELD Montebello.LEASE Tri-City WELL No. 1 SEC. 35 T. 1 S. R. 12 W. S. B. & M.Date 10/8/18. At 3700 ft. with 15 sticks 15 lbs. 80% gelatin dynamitePurpose To loosen.Torpedoes, number 1 Diameter 2 1/2 Length 5Number of caps 21 Size casing 4 1/2 Kind of wellShooter Alexander.Date 10/9/18. At 3550 ft. with 15 sticks 15 lbs. 80% gelatin dynamitePurpose To loosen.Torpedoes, number 1 Diameter 2 1/2 Length 5Number of caps 2 Size casing 4 1/2 Kind of wellShooter Alexander.Date 10/13/18 At 3450 ft. with 15 sticks 15 lbs. 80% gelatin dynamitePurpose To loosen.Torpedoes, number 1 Diameter 2 1/2 Length 5Number of caps 21 Size casing 4 1/2 Kind of wellShooter Alexander.Date 10/22/18. At 3450 ft. with 25 sticks 25 lbs. 80% gelatin dynamitePurpose To loosen.Torpedoes, number 1 Diameter 4 Length 3Number of caps 2 Size casing 6 Kind of wellShooter Alexander

California State Mining Bureau

Department of Petroleum and Gas



Supplementary Notice
~~Notice of Intention to Deepen or Redrill Well~~

This notice should be given fifteen ^{days} before work begins

Montebello, Cal. Oct 7, 1918

Mr. M. J. Kirwan

Deputy State Oil and Gas Supervisor

Los Angeles Cal.

DEAR SIR:

In compliance with Section 17, Chapter 718, Statutes of 1915, notice is hereby given that ^{Tri City} it is our intention to commence the work of ~~deepening or~~ redrilling well number 1
 (Cross out one word)

Section 35 T. 1 R. 12, Montebello Oil Field,
 Los Angeles County.

The present condition of the well is as follows:

12 $\frac{1}{2}$ " casing cemented at 1598'2"
 10" casing froze at 3215'7"
 8 $\frac{1}{4}$ " casing landed at 3335'5"
 6-5/8" casing froze at 3843'2"
 4 $\frac{1}{2}$ " casing froze at 3894'2"
 Depth of hole 3923'

// The proposed work is as follows: Shoot 4 $\frac{1}{2}$ " casing as far as possible below a depth of 3400' and pull out. Shoot 6-5/8" casing immediately above point from where 4 $\frac{1}{2}$ " casing was pulled and put in a plug consisting of about 20 sacks of cement at the point where shot was made. If possible pull out 6-5/8" casing, if not, shoot same at a point below bottom of 8 $\frac{1}{4}$ " casing and pull out and plug up hole with cement to bottom of 8 $\frac{1}{4}$ " casing and try and force cement back of the 8 $\frac{1}{4}$ " casing. If unable to get cement in on account of no circulation, will remove 8 $\frac{1}{4}$ " casing as far below the bottom of 10" casing as possible, then bridge hole & cement 8 $\frac{1}{4}$ " casing at about 3275' and make a test. It is understood that the work and plugging to be done as outlined above is with a view of abandoning the well.

Pan-American Petroleum Company

(Name of Company or Operator)

By A. J. Davis
Superintendent

Address notice to Deputy State Oil and Gas Supervisor in charge of district where well is located.

COPY.

Los Angeles, Cal., May 24th, 1918.

Mr. I. W. Fuqua, Gen. Mgr.,
Pan-American Petroleum Co.,
Security Bldg., City.

Dear Sir:-

This letter is in reply to a certain portion of your letter of May 18th, 1918, relative to Pan-American Petroleum Co. Tri-City Well No. 1, Sec. 35, T. 1 S., R. 12 W., which letter deals primarily with Petroleum Midway Darlington Well No. 1, and in which letter you state that you were delayed beyond all reason in time before proceeding with the work on Tri-City Well No. 1.

In your letter mentioned above, you make the following statement:

"I have two positive, concrete cases, in both of which there is recorded evidence in which you have accepted the theories and conclusions from unreliable, prejudiced and unfriendly sources, or were proposing it on your own initiative, that we know of and were aware of the fact that we had a positive, definite oil bearing formation through which we were carelessly, negligently and knowingly penetrating without due consideration".

You refer to one of these cases as your Tri-City Well No. 1, and subsequent tests made after landing the 12 $\frac{1}{2}$ " casing in this well.

The log of this well dated November 22nd, 1917, furnished this department, states that sand with a small showing of oil, considerable gas, was encountered between depths of 1663' and 1665'. In your letter of November 27th, 1917, relative to Bicknell Well No. 1, you made the following statement about Tri-City Well No. 1:

"The sand you refer to in the Tri-City well at a depth of 1663' was altogether a different showing of both oil and gas, which we cemented off in order to test out, believing there might be something there worth while".

Accepting the log record furnished by you in which you state that a showing of oil and gas was encountered in this well, and your statement in letter of November 27th, quoted above, relative to the value of the showing of oil and gas penetrated at a depth of 1663', this department was in favor of, and recommended that, the sand in question be tested in the proper manner to determine its value.

Records of this department show that the 12 $\frac{1}{2}$ " casing which was cemented at a depth of 1598'2" failed to exclude water from the well and that this casing was recemented on Dec. 5th, 1917, which work resulted in failure to exclude water. The 12 $\frac{1}{2}$ " casing was again recemented on Dec. 19th, and resulted in failure to shut off water. It was your opinion, as stated to me in letter of January 12th, 1918, that water was not entering the well from back of the 12 $\frac{1}{2}$ " casing, and that you believed that water was entering the well from a depth lower than the top of the bridge (1602'), which was 3'10" below the shoe of the 12 $\frac{1}{2}$ " casing. It was the desire of neighboring operators, the Riverside Portland Cement Co. and the Clara Baldwin Stocker Oil Estates, that this well be properly tested to determine the presence or absence of oil bearing formations as reported in the log kept by your company. It is my understanding that

To Mr. I.W.Fuqua

-2-

From Mr. M.J.Kirwan.

these companies agreed to stand the expense of work in connection with bridging the well below the $12\frac{1}{2}$ " casing to determine whether or not this casing effectively prevented water from above the shut off point (1598'2") from passing to lower levels in the well.

Records on file in this office show that the well was plugged with cement up to a depth of 1607'4", and that bailing tests conclusively proved that the $12\frac{1}{2}$ " casing did not prevent water from above the shut off point (1598'2") from entering the well. Bailing tests made at this well after the cement plug had been drilled out, indicated that additional water may possibly be entering the well between the shut off point and the bottom of the well (1683').

Following is a statement from our Report on Test of Water Shut Off No. T 1-147 of February 19th, 1918:

"The results of tests witnessed by this department at this well failed to definitely prove that the formation between depths of 1663' and 1673' is not oil bearing".

However, approval was given your company in this report to proceed with the drilling of the well.

In view of the fact that neighboring companies agreed and, I understand, actually paid a certain sum of money to have this well properly tested, and also in view of the fact of the log record which you filed with this department, and your statement in the third paragraph of this letter, from letter regarding the Bicknell well, I am unable to see where you have any basis for making the statement quoted in the second paragraph of this letter.

Yours very truly,

(Signed) M. J. Kirwan,

Deputy Supervisor.

CC- Mr. R. P. McLaughlin.

MJK-H.

Tri-City #1

REBUTTAL FUQUA'S TESTIMONY BY M. J. KIRWAN

Mr. Fuqua testified that the State Mining Bureau delayed him from forty-five to 60 days in testing this well. The reasons for testing this well are briefly covered in Kirwan's letter to Fuqua of May 24, 1918. You will note in this letter that neighbors stood a great portion of the cost in testing this well.

CALIFORNIA STATE MINING BUREAU

DEPARTMENT OF PETROLEUM AND GAS

Report on Proposed Operations

No. P 1-734

Los Angeles Cal. April 18th 1919

Mr. A. H. Davis

Montebello Cal.

Agent for Pan American Petroleum Company

DEAR SIR:

report on abandonment

Tri-City

Your ~~proposal~~ Well No. 1 Section 35 T. 18 R. 12W S. B. B. & M.

Montebello Oil Field Los Angeles County, dated Feb. 18 1919

has been examined in conjunction with records filed in this office.

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

RECORDS:-

Records on file at this office show that this well was drilled to a total depth of 3923', casing record as follows:

1598' 2" of 12 $\frac{1}{2}$ "
 3215' 7" of 10"
 3535' 5" of 8 $\frac{1}{2}$ "
 3845' 2" of 6-5/8"
 3894' 2" of 4 $\frac{1}{2}$ "

Our Report No. P 1-572 gives a history of the work at this well previous to Dec. 23, 1918 and recommended that the well be abandoned in the following manner.

1. A representative of this department to visit the well to witness the cement measurement to the top of the cement plug placed at 2970' and also, whether or not the cement has properly set.

2. Should it be found that the cement is set hard, the 10" casing to be freed at the greatest depth possible and pulled from that point.

3. After pulling 10" casing a bridge to be placed at a depth of about 1615' and a solid cement plug placed against the formations from that point up into the 12 $\frac{1}{2}$ " casing at least 10 ft.

4. The 12 $\frac{1}{2}$ " casing should then be pulled from where it can be freed and a cement plug placed in the top of the hole as outlined in the company's notice.

Our Report No. T 1-484 dated Dec. 26, 1918 states that the top of a cement plug was found in this well at a depth of 2930' which was in accordance with the recommendations of this department.

RECOMMENDATIONS:

The requirements of this department, which are based on all information filed with us, have now been complied with.

R. P. McLAUGHLIN,

State Oil and Gas Supervisor

By Ernest Taylor Deputy

CALIFORNIA STATE MINING BUREAU

Department of Petroleum and Gas.

SUPPLEMENTARY NOTICE

Los Angeles, Cal. March 19, 1918

Mr. M. J. Kirwan

Deputy State Oil and Gas Supervisor

520 Union League Building, Los Angeles, Cal.

DEAR SIR:

Please be advised that our notice to you dated March 13th, 1918, stating our intention to Test well number 1 Section 25 T. 1 S. R. 12 W. S. B. & M., (Drill, deepen, redrill, test, abandon) MONTEBELLO Oil Field, Los Angeles County,

must be amended on account of changed or recently discovered conditions.

The new conditions are as follows:

Supplementing my report to you under date of March 13, 1918, wish to advise that we drilled out the plug put in under the supervision of Mr. Moran, Mr. Golaspy, your representative and our Mr. Davis, and in accordance with the rules governing the test, the well was shut down on March 15th at 12:00 o'clock Midnight. We started bailing at 6:00 A. M. on March 16th, 1918 with the same bailer that was used in the test covered by my report to you under date of March 13th. The water was standing 110 feet from the top of the hole at the time bailing was started. 213 bailers of water were taken out up to 11:00 o'clock A. M., covering a period of 5 hours, and the water at that time, as per measurements that were taken by your representative, Mr. Moran, Mr. Golaspy, our Mr. Lloyd, Mr. Reynolds and Mr. Davis, showed it to be 169 feet from the top of the hole. This test was made with the 10" casing extended through the formations and into the sand at 1663 feet and to a depth of 1670 feet. ~~Was now reported~~ This test proving conclusively that additional water was found in the well, as has been previously reported, coming from the sand at 1663 feet.

I now await your written decision on this matter, giving us authority to proceed with the regular drilling work, as you advised me you would do in our several conversations regarding the test over the telephone.

See Field Report No. 10,
March 17, 1918

CC - W. T. McGinley,
R. B. Moran
A. H. Davis

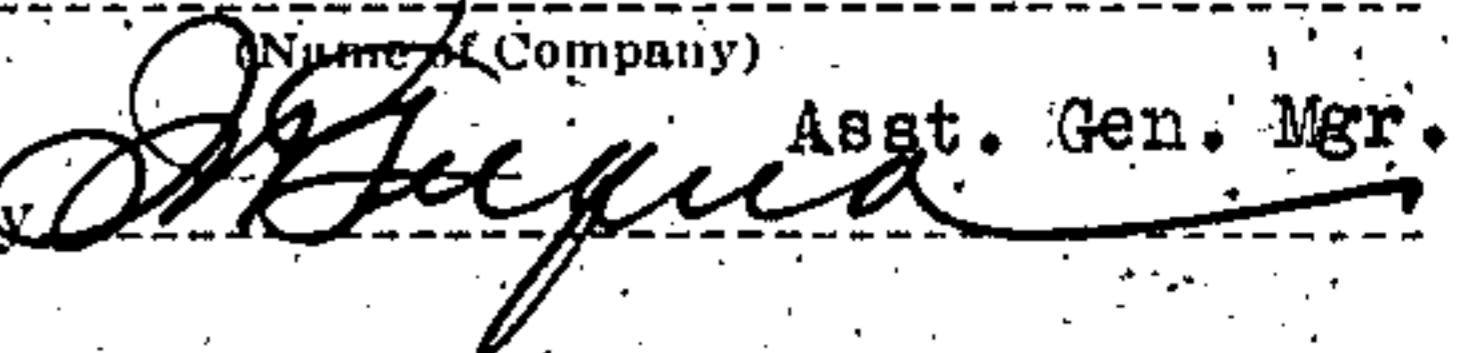
Respectfully yours,

PAN AMERICAN PETROLEUM COMPANY

(Name of Company)

Asst. Gen. Mgr.

By



MEMORANDUM.

Los Angeles, March 18th, 1918.

Pan-American Petroleum Co.,
Tri-City Well No. 1, Sec. 35, T. 1 S., R. 12 W.

I called up Mr. R. B. Moran of the Riverside Portland Cement Co. this date relative to this well, and Mr. Moran stated that he was satisfied that the additional water was encountered in the sand, top of which is reported at a depth of 1663', and that it was agreeable to him for the Pan-American Petroleum Co. to proceed with the drilling of the well.

I called up Mr. Fuqua and told him that I was preparing to write a written decision and that we would approve in this decision his verbal proposal to proceed with the drilling of the well in that we would expect his company to note carefully the character of the formations and their contents in such drilling, and that, when a showing of oil was encountered, we likewise would expect his company to shut off water above it in order to test such showing.

M. J. Herwin

CALIFORNIA STATE MINING BUREAU

Department of Petroleum and Gas

SUPPLEMENTARY NOTICE

Los Angeles, Cal. March 13th, 1918

Mr. M. J. Kirwan,

Deputy State Oil and Gas Supervisor

520 Union League Building, Los Angeles, Cal.

DEAR SIR:

Please be advised that our notice to you dated February 26th, 1918, stating our intention

TRI-CITY 35 T.B. Case

to Test well number 1 Section 25 T. 1 S. R. 12 W. S. B. B. & M.
(Drill, deepen, redrill, test, abandon)

MONTEBELLO Oil Field, Los Angeles County,

must be amended on account of changed or recently discovered conditions.

The new conditions are as follows:

In connection with conference which we had at your office under date of February 25th, and which was confirmed by me under date of February 26, and referring to yours of February 25th and March 1st, wish to advise, which is in confirmation of our several conversations regarding the bailing down of this well, having at one time bailed down to 600 feet, and the next morning finding the hole filled up a couple of hundred feet with sand and mud, evidently indicating that some radical change had taken place in the well since our work as reported to you under dates of January 12th and 17th, 1918, since that time bailing lowered the water several hundred feet with sand and mud accumulated in the bottom, and our discussion regarding the advisability of putting a joint of 10" perforated on the bottom and setting it on top of the cement bridge and making a test, I have the following to report to you, which are the results of a test made today.

3/13/18 - 5:00 A. M. Water stood at 145 feet from top. Ran 125 bailers to 10:00 A. M., at which time the water level as taken by your representative, our representative and Mr. Golaspy, was 450 feet from the top of the hole. The size of the bailer was 7 5/8" I. D. by 21 feet long. Hole was cleaned when started bailing to 1606 feet. When finished it was found to be filled up to 1598' 7", a little below the bottom of the 12 1/2" shoe, and in accordance with our conference subsequent to the test, we are now proceeding with the drilling out of the bridge for the purpose of making another test when we enter the sand at 1663 feet. The test at that time to decide whether we shall proceed with the regular work of drilling in accordance with the understanding at a conference held at which yourself, Mr. McGinley, Mr. Moran, and myself were present.

Continued on Page #2

Respectfully yours,

CC- W.T. McGinley
R. B. Moran
A. H. Davis.

PAN AMERICAN PETROLEUM COMPANY

(Name of Company)

By

Asst. Gen. Mgr.

MEMORANDUM

Office, March 14, 1918.

Tri City Well, #1, 35-1-12.

Inspector Thoms visited this well at 10 A. M., March 12th, to witness a test to determine the character of and the rate at which, fluid entered the well when bailed continuously for five hours under the following conditions:

The well is 1673' deep. There is a bridge at 1630' and a cement plug extends between depth of 1630 and 1607' 4". 12 $\frac{1}{2}$ " casing is cemented at a depth of 1598' 2". 1607' 4" of 10" casing with one joint perforated on bottom sets on the bridge at 1607' 4". At 11 A.M., March 12th, hole was open to a depth of 1606'.

Messrs. A. H. Davis, Supt., and T. A. Reynolds, driller, were present. The hole was found open to a depth of 1606'; top of fluid (water) was found at a depth of 243'. As the bailing had not been carried on as per instructions, Inspector Thoms agreed to again visit the well at 10 A. M., March 13th.

At 10 A. M., March 13th, the inspector again visited the well. Messrs. Davis, Reynolds and D. B. Arrell, geologist, representing the Riverside Portland Cement Co., and the Baldwin-Stocker Oil Estates, were present. Mr. Reynolds stated that at 5 A. M., March 13th, the top of the fluid was located at a depth of 143', and that from 5 A. M. to 10 A. M., March 13th, 1918, 125 bailers of water had been removed from the well. The bailer used was 21' in length and 7 5/8" inside measure. It was calculated that the fluid thus removed would amount to about 5838 gals. *or 139 Mc*

The top of the fluid was found at a depth of 450' and the hole was open to a depth of 1598' 7". No oil was noted during the test. Thus in 5 hours about 5838' gals. of water were removed from the well and the fluid level lowered from a depth of 143' to a depth of 450'.

CCT/W

CCT

CALIFORNIA STATE MINING BUREAU

Department of Petroleum and Gas

Page #2

SUPPLEMENTARY NOTICE

Los Angeles, Cal. March 13, 1918

Mr. M. J. Kirwan,

Deputy State Oil and Gas Supervisor

520 Union League Building, Los Angeles, Cal.

DEAR SIR:

Please be advised that our notice to you dated February 26th, 1918, stating our intention to **Test** well number **1** Section **25** T. **1 S.** R. **12 W.** S. B. B. & M., (Drill, deepen, redrill, test, abandon) **MONTEBELLO** Oil Field, **Los Angeles** County,

must be amended on account of changed or recently discovered conditions.

The new conditions are as follows:

In addition I wish to advise that I personally informed the Riverside Portland Cement people and Mr. McGinley's office, that we would make the proposed test this morning at 10:00 A. M. The Riverside Portland Cement people did not have a representative present.

We now propose

CC-W. T. McGinley
R. B. Moran
A. H. Davis.

Respectfully yours,

PAN AMERICAN PETROLEUM COMPANY

(Name of Company)

By *[Signature]* Asst. Gen. Mgr.

M 2

MEMORANDUM.

Los Angeles, Cal., Mar. 13th, 1918.

Pan-American Petroleum Co.,
Tri-City Well No. 1, Sec. 35, T. 1 S., R. 12 W.

Mr. I. W. Fuqua, Asst. Gen. Mgr., called over telephone this date and stated that Inspector Thoms witnessed test at this well and the following are the facts in connection with this test:

Bailing was started at 5 A.M. this date, fluid standing at a depth of 145' and fluid was bailed to a depth of 450' from the top. 120 bbls. of fluid were removed. The bailer used is 7 5/8" I.D. by 21'. Previous to bailing operation, the hole was open to a depth of 1606' and at the conclusion of the bailing test the hole filled up to 1598'.

I suggested to Mr. Fuqua over telephone that, in view of the fact that he was unable to bail this well lower than 450', it probably would be advisable to recement the 12 $\frac{1}{2}$ " casing, particularly in view of the fact that there is a cement plug in the well below this casing.

I told Mr. Fuqua that, in view of our understanding at the recent conference held in this office, we would, however, approve his proposal to drill out the cement plug and conduct further bailing test. Mr. Fuqua agreed that, in case he was unable to bail the well to a depth of 450', it would indicate to him that additional water was coming into the well and under those circumstances wanted to proceed with the drilling of the well. However, in case the fluid could be bailed to a depth of 450', after drilling out the plug, he stated that he would replug the well and either recement the 12 $\frac{1}{2}$ " casing or at least make a shut off above the sand which is being tested.

M. J. Johnson

California State Mining Bureau

DEPARTMENT OF PETROLEUM AND GAS
Report on Proposed Operations

No. P. 1-246

-----Los Angeles----- Cal. -----March 1,-----1918

Mr. I. W. Fuqua-----

-----Los Angeles----- Cal.

Agent for Pan American Petroleum----- Company

DEAR SIR:

supplementary

Your proposal to test----- well No. 1, Section 35 T. 1 S. R. 12, W. S. B.----- B. & M.,

-----Montebello----- Oil Field ----- Los Angeles----- County, dated Feb. 26 1918

has been examined in conjunction with records filed in this office.

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

RECORDS:

Records filed with this department show that ~~the~~ a cement plug has been put into the lower portion of the well and extending up to a depth of 1608 ft.

PROPOSAL:

The proposal of the company is to endeavor to bail the water in this well down to a depth not to exceed 1000 ft., and notify this department so that such test may be witnessed. Following this operation, the company plans to drill out the cement plug and into the sand reported at a depth of 1663 ft, and again endeavor to bail the well to the level bailed before drilling out the plug, keeping account in both bailing operations of the time consumed in bailing water to a certain level, and the number of bailers of fluid removed.

Recommendation:

The proposal to conduct the above indicated bailing test to determine so far as these tests may show, whether or not the sand encountered at a depth of 1663 ft., is water bearing, is satisfactory to this department.

CC-W. T. McGinley
R. B. Moran

R. P. McLAUGHLIN,
State Oil and Gas Supervisor.

By [Signature]----- Deputy.

CALIFORNIA STATE MINING BUREAU

Department of Petroleum and Gas

STATE MINING BUREAU

FEB 27 1918

SUPPLEMENTARY NOTICE

Los Angeles, Cal. February 26, 1918

Mr. M. J. Kirwan,

Deputy State Oil and Gas Supervisor

520 Union League Building, Los Angeles, Cal.

DEAR SIR:

Please be advised that our notice to you dated _____, 191____, stating our intention

TRI-CITY

to Test well number 1 Section 35 T. 1 S. R. 12 W. S. B. B. & M.,
(Drill, deepen, redrill, test,
abandon)

MONTEBELLO

Oil Field, Los Angeles County,

must be amended on account of changed or recently discovered conditions.

The new conditions are as follows:

In accordance with our understanding yesterday at the conference held at your office, at which yourself, Mr. Moran, Mr. McGinley and myself were present, we are proceeding along the lines as suggested and agreed to, namely, that we proceed to bail the water down in this well, keeping tab on the number of bailers and the length of time, advising your Department when we have the water at a certain depth, so that you may come out and make an inspection, after which we are to drill the bridge out of the well into the Sand at 1663 feet and then to bail the well again with the same ratio of bailers as indicated in the first test, and if we are unable to lower the water to the depth to which we lower it on the first bailing, it was agreed that the additional water would be conceded to be coming from the sand below, and that the sand contained water instead of oil, which would give us a clearance to ~~We now propose~~ go ahead with our drilling work.

We made some bailing tests on this well from the 19th to the 22nd instants, inclusive, which indicated a water condition similar in character to that previously reported in one of our tests, which showed that water was coming in the hole at the rate of a little less than 100 feet per hour, and bailed down as low as 620 feet. This test, however, was not as conclusive as our former test on account of having been delayed by the recent storm and a shortage of water for carrying on our operations. We are now, however, proceeding with the regular test, as agreed upon yesterday.

Reference , 2/19/18
P. A. P. C. Report No. 6.

Respectfully yours,

PAN AMERICAN PETROLEUM COMPANY

(Name of Company)

By 
Assistant General Manager.

February 25th, 1918.

Messrs.:

I. W. Fugus,
Pan-American Petroleum Co.,
W. T. McKinley,
Baldwin Stecker Oil Estates,
R. D. Moran,
Riverside-Portland Cement Co.,

Los Angeles, Calif.

Gentlemen:-

This letter is written in confirmation of my understanding of conference held in this office today, which you attended to discuss and formulate plans for work at Pan-American Tri-City Well No. 1, Sec. 35, T. 1 S., R. 12 W., and O. D. Stecker Well No. 3, Sec. 35, T. 1 S., R. 12 W.

It is my understanding that you agreed that it would be advisable to have Tri-City Well No. 1 bailed down not to exceed a depth of 1000 feet, keeping account of the number of barrels of fluid removed from the well and the time consumed in bailing to a certain level, and that this Department would be notified so that a representative may witness test when fluid has been bailed down. After the inspector has witnessed this test, the well should be allowed to stand and the time recorded for the well to fill up to its water level. After this has been done, cement plug, top of which is now at a depth of 1635', should be drilled out and the sand reported at a depth of 1635' drilled into to a depth of 1675', original depth of well, and that a bailing test be made to determine whether or not the fluid can be lowered, and that the Pan-American Petroleum Company notify this Department in order that such test may be witnessed.

It is my further understanding that the object of the bailing tests referred to above is to determine whether or not the sand penetrated between depths of 1635' and 1675' is water bearing. It is also my understanding that it is your opinion that this can be determined by comparative results obtained in bailing; that is, in case water can be bailed down before drilling out the plug and cannot be bailed down after drilling out the plug, that it indicates that additional water is entering the well, the source of this water being from the sands penetrated between depths of 1635' and 1675'.

From H. J. Kirwan.

To Messrs. Angus, McKinley & Moran.

Baldwin Steamer Oil Refining Well No. 5, in which drilling was commenced on Jan. 19th, has been drilled to a depth of 1548', according to memorandum copy of log furnished to this department by Mr. McKinley. Work was voluntarily stopped by the company on this well on February 28th.

As a result of our conference of this date, I understand that Mr. McKinley desires to leave this latter well shut down, pending results in Pan-American Tri-City Well No. 1.

Yours very truly,



Deputy Supervisor.

CC- Mr. H. F. McLaughlin.

California State Mining Bureau

DEPARTMENT OF PETROLEUM AND GAS

Report on Test of Water Shut-off

(1st page)

No. T 1-147

Los Angeles Cal. February 19, 1918

Mr. I. W. Fuqua

Los Angeles Cal.

Agent for Pan American Petroleum Company

DEAR SIR:

Your well No. **Tri City** Section **36** T. **1 S** R. **12 W** S. B. B. & M.,

Montebelle Oil Field, in **Los Angeles** County, was this day tested

for shut-off of water. Mr. **J. B. Case**, designated by the supervisor, was present as prescribed in Section 19,

Chapter **718** Statutes **1915** and there were also present **Mr. Davis, Supt., Mr. T. A. Northrop, production foreman, R. B. Moran, representing the Riverside Portland Cement Co., Mr. A. L. Smith, driller, and Mr. Ashton, tool dresser.**

Location of the water tested **top** (Top Bottom, etc.)

Depth and manner of water shut-off **12 1/2" cas. cem. at 1598' 2", 40 ex. cas. through tubing under 800' pressure.** (Casing cemented, landed, or hole plugged up)

Casing record of well **1598' 2" of 12 1/2", 1573' of 10" hanging in the spider.**

Reported total depth of hole **1573'** Bailer went to **1607' 4"** feet and brought up **water and no oil.**

Water bailed out to **1607' 4"** feet at **1630** (Time and date) **plug extends between depths of 1630 and 1607' 4"** (Time and date) bailer run to **1607' 4"** feet.

Result of bailing test **Found top of fluid at 87'. No oil perceptible at time of test. Found top of cement plug at 1607' 4". The bailer from this depth brought up water with small pieces of chipped cement from spudding bailer on top of plug**

Result of pumping test

Date well put to pumping Pump depth

At the end of days well made barrels of fluid of which per cent was water, coming from

Fluid level before water was shut off feet; after water test feet.

J. B. Case, inspector was present at this well to determine:

1st--the depth at which fluid stood in the well.

2nd--the character of the fluid in the well.

3rd--the depth to which the well was opened previous to bailing down the fluid preparatory to test of water shut off.

The top of the cement plug was found at a depth of 1607' 4".

Mr. Davis and Mr. Moran were each satisfied with the length of this plug, and Mr. Davis ordered the driller to bail the fluid from the well to a depth of 1000'.

Mr. I. W. Fuqua, Asst. General Manager, advised Mr. M. J. Kirwan that it was found impossible to bail the water down to a depth of 1000'. This indicates that the 12 1/2" casing, cemented at a depth of 1598' 2", fails to exclude water from the well.

A conference was held in the office of the Deputy Supervisor on Feb. 25th 1918, regarding this well. There were present Mr. R. B. Moran, Mr. Wm. T. McGinley, representing the Baldwin-Stecker Oil Estates, and Mr. I. W. Fuqua. It was agreed that certain bailing tests should be made at this well, the details of which are outlined in a memorandum of the conference by Mr. M. J. Kirwan.

(Continued on End page)

R. P. McLAUGHLIN,

State Oil and Gas Supervisor.

By *M. J. Kirwan* Deputy.

J. B. Case, Inspector

(2nd page)

No. T 1-147

Los Angeles, Cal. Feb. 19, 1918.

Mr. I. W. Fuqua,
Agt. for Pan American Petroleum Co.

Your well Tri City No. 1, Sec. 35, T. 1 S. R. 12 W. S. B. D&M.
Montebello Field, Los Angeles County.

(Continued from 1st page)

Kirwan, dated February 26, 1918, which was sent to you.

Inspector C. C. Thoms visited this well at 10 A.M. March 12, 1918, to witness a test to determine the character of and the rate at which fluid entered the well when bailed continuously for five hours. The 10" casing, with bottom joint perforated, was setting on top of the cement plug at a depth of 1607' 4" when the test was made, probably preventing the free access of water into the 10" casing through the bottom. At 11 A.M., March 12, the hole was found open to a depth of 1608'.

Messrs. A. H. Davis, Supt. and T. A. Reynolds, driller, were present. The top of the fluid (water) was found at a depth of 243'. As the bailing had not been carried on as per instructions of Mr. Davis, Inspector C. C. Thoms agreed to again visit the well.

At 10 A.M., March 13th, Inspector C.C. Thoms again visited the well. Messrs. Davis, Reynolds and D. B. Arrell, Geologist, representing the Riverside Portland Cement Co. and the Baldwin-Stocker Oil Estates, were present. The top of the fluid was found at a depth of 450' and the hole found open to a depth of 1598' 7". No oil was noted during the test.

Mr. Reynolds stated that at 5 A. M. March 13th, the top of the fluid was located at a depth of 145', and that from 5 A.M. to 10 A. M., 125 bailers of water had been removed from the well. The bailer used was 21' in length and 7 5/8" inside diameter. The amount of fluid thus removed was calculated to be 159 bbls; and 7' 5" of formation had settled in the bottom of the 10" casing.

At 11 A.M., March 16th, Inspector C. C. Thoms again visited this well to witness a test to determine the character of and the rate at which the fluid entered the well when bailed continuously for five hours; The well having been cleaned out to a depth of 1673' (original bottom), and the shoe of the 10" casing hanging at a depth of 1670' 8".

Mr. Reynolds, Mr. Davis, Mr. J. Golaspay, representing the Baldwin-Stocker Oil Estates, and Mr. R. B. Moran were present at this test. The top of the fluid was found at a depth of 169', and the hole was found open to a depth of 1645'. No oil was noted during the test.

Mr. Reynolds made the following statements to Inspector Thoms:

"At noon on March 15th, the hole was opened to a depth of 1668'.
At 6 A.M., March 16th, the top of the fluid was located at a depth of 110'.
That from 6 A.M. to 11 A.M. on March 16th, 213 bailers of fluid were removed from the well."

This would be at the rate of 1.4 minutes per bailer indicating very rapid work in bailing. The amount of water thus removed from the well was calculated to be 237 bbls; and 23' of formation had settled inside the 10" casing.

(3rd page)

No. T 1-147

Los Angeles, Cal., Feb. 19, 1918.

Mr. I. W. Fuqua,
Agt. for Pan American Petroleum Co.

Your well Tri City No. 1, Sec. 35, T. 1 S., R. 12 W., S. B. B&M
Montebello Field, Los Angeles County.

(Continued from 2nd page)

These tests indicate that water is probably entering the well from a depth below 1607' 4", and that the formation encountered at a depth of 1663' and penetrated to a depth of 1673', may be water bearing.

Mr. R. B. Moran and Mr. W. T. McGinley stated to the Deputy Supervisor that it would be agreeable to them so far as their interests were concerned, for the Pan-American Petroleum Co. to proceed with the drilling of this well.

The results of tests witnessed by this department at this well failed to definitely prove that the formation between depths of 1663 and 1673' is not oil bearing.

Your written proposal of March 19th, to proceed with the drilling of this well is satisfactory to this department. I recommend that the company shut off water above the first oil bearing formation which may be encountered in this well. I also recommend that this department be informed when formations showing oil have been encountered.

R. P. McLAUGHLIN
State Oil and Gas Supervisor

By M. J. Herndon Deputy

P. J. B. Case, Inspector

CC--R. B. Moran
W. T. McGinley

CALIFORNIA STATE MINING BUREAU
Department of Petroleum and Gas

FEB 20 1918
AU

Notice of Test of Water Shut-off

This notice must be given at least five days before the test, and a longer time is desirable

Los Angeles, Cal. February 12, 1918

Mr. M. J. Kirwan,

Deputy State Oil and Gas Supervisor

520 Union League Building, Los Angeles, Cal.

DEAR SIR:

In compliance with Section 19, Chapter 718, Statutes of 1915, notice is hereby given that it is our intention to test the shut-off of water in well number 1 Section 35 T. 1 R. 12, S. B. B. & M., MONTEBELLO Oil Field, Los Angeles County. on the 19th day of February 1918

2 inch casing was cemented in _____ at _____ on _____ 1918
(Formation) (Depth) (Date)

R. P. S. O. W
2 Tons ~~was~~ of cement was used for purpose of lengthening plug

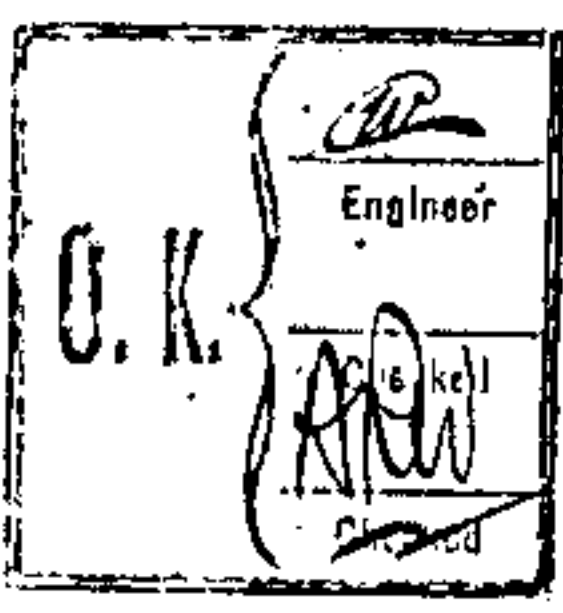
The Tubing method method was used in placing the cement.

Fluid level will be bailed to a depth of _____ feet and left undisturbed for at least 12 hours before your inspection.

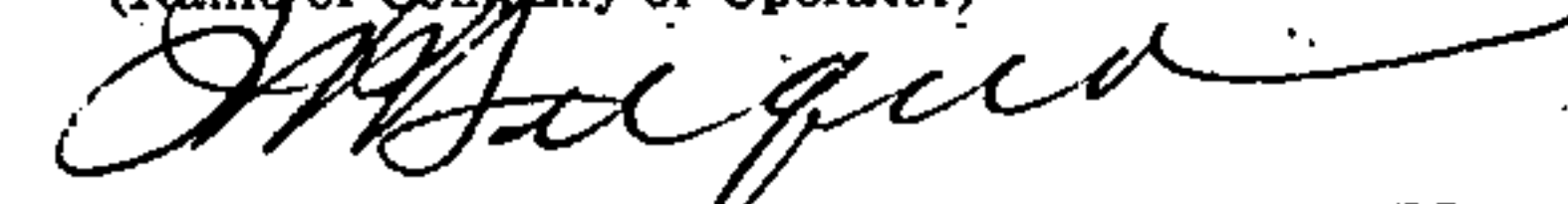
The well is 1673 feet deep. There ~~is a plug~~ ^{is not} or bridge from 1673 feet to 1618 feet.

On January 22, 1918 the Tri-City Well No. 1 was cemented in accordance with previous reports, the testing of which was made on February 5, 1918. The bailer was run in the hole and water was found at a depth of 81' 6" from the top, and in running to the bottom, the top of the bridge was found at 1618', which is lower by several feet than it should have been. This test was made in the presence of Mr. Moran, Mr. Golaspy, and Mr. Case of your Department, and our Mr. Davis, and it was decided at that time that there should be more cement put in the hole in order to lengthen the bridge, which was done on the 9th day of February, 1918, two tons of cement having been put in by the Huber and Wilson process, the tubing set at 1601' 4" during cementing.

Respectfully yours,

O. K. 

PAN AMERICAN PETROLEUM COMPANY
(Name of Company or Operator)

By 
Assistant General Manager.

PAN AMERICAN PETROLEUM & TRANSPORT COMPANY

PAN AMERICAN PETROLEUM COMPANY SUBSIDIARY

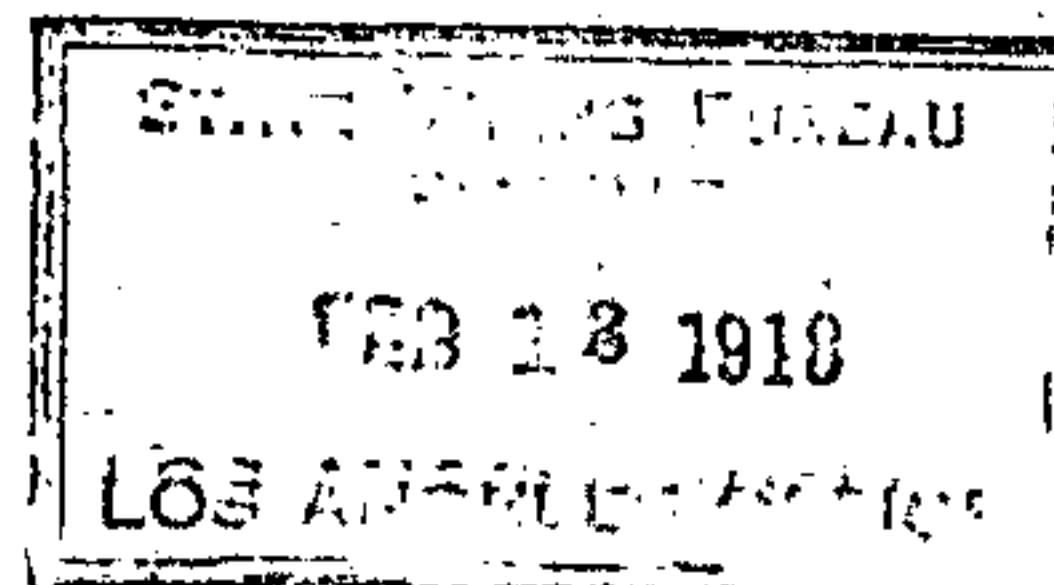
EDWARD L. DOHENY, PRESIDENT.
HERBERT G. WYLIE, VICE PRESIDENT.
J. M. DANZIGER, VICE PRESIDENT.
E. L. DOHENY, JR., VICE PRESIDENT.
NORMAN BRIDGE, TREASURER.
O. D. BENNETT, SECRETARY.

FIELD OFFICE
NORDHOFF, CALIFORNIA

SECURITY BUILDING
LOS ANGELES

February 12, 1918

Mr. M. J. Kirwan,
Deputy State Oil and Gas Supervisor,
520 Union League Building,
Los Angeles, California.



PAN AMERICAN PETROLEUM WELL No. 1, TRI-CITY LEASE
SECTION 35-1-12, MONTEBELLO FIELD, SBB&M

Dear Sir:

On January 22, 1918 the Tri-City Well No. 1 was cemented in accordance with previous reports, the testing of which was made on February 5, 1918. The bailer was run in the hole and water was found at a depth of 81' 6" from the top, and in running to the bottom, the top of the bridge was found at 1618', which is lower by several feet than it should have been. This test was made in the presence of Mr. Moran, Mr. Golaspy, and Mr. Case of your Department, and our Mr. Davis, and it was decided at that time that there should be more cement put in the hole in order to lengthen the bridge, which was done on the 9th day of February, 1918, two tons of cement having been put in by the Huber and Wilson process, the tubing set at 1601' 4" during cementing.

I now propose that the test be made on the 19th day of February, 1918.

Yours very truly,

PAN AMERICAN PETROLEUM COMPANY

By


Assistant General Manager.

IWF:MA

Notice of test of W.S.O. M.J.K.

California State Mining Bureau

DEPARTMENT OF PETROLEUM AND GAS

Report on Test of Water Shut-off

No. T. 1-112

Los Angeles, Cal. February 5th, 1918.

Mr. I. W. Fuqua,

Los Angeles, Cal.

Agent for Pan-American Petroleum Company

DEAR SIR:

Tri-City

Your well No. 1 Section 35 T. 1 S. R. 12 W. S.B. B. & M.,

Montebello Oil Field, in Los Angeles County, was this day tested

for shut-off of water. Mr. J. B. Case, designated by the supervisor, was present as prescribed in Section 19,

Chapter 718, Statutes 1915, and there were also present Mr. Davis, Supt.; R. B. Moran, representing Riverside Portland Cement Co., Mr. John Golaspay, Supt., C. B. Stocker Oil Estate, and G. A. Rehard, driller.

Location of the water tested top

Depth and manner of water shut-off 12 1/2" casing com. @ 1598' 2", 40 sks. com. through tubing under 600 lbs pressure. (Casing cemented, landed, or hole plugged up) (Top Bottom, etc.)

Casing record of well 1598' 2" of 12 1/2" - 1573' of 10" hanging in the spider.

Reported total depth of hole before plugging 1573 feet. Bailer went to 1618 feet and brought up water and no oil.

Water bailed out to feet at (Time and date) At (Time and date)

bailer run to feet.

Result of bailing test Found top of fluid at 81' 6". No oil showing. Found top of cement plug at 1618'. The bailer from this depth brought up a very small amount of sand and small pieces of chipped cement.

Result of pumping test

Date well put to pumping Pump depth

At the end of days well made barrels of fluid of which per cent was water, coming from

Fluid level before water was shut off feet; after water test feet.

The inspector was present at this well to obtain the following information previous to bailing down the fluid preparatory to test of water shut off: (1) To determine the depth at which fluid stood in the well; (2) To determine the character of the fluid in the well; and (3) to determine the depth to which the hole was open.

The top of the cement plug was found at a depth of 1618'. A consultation was held by Messrs. Davis, Moran and Golaspay, at which they decided, and Mr. Davis made a verbal proposal to the inspector, to put in additional cement in order to plug the well up to the shoe of the 12 1/2" casing before conducting further tests. Verbal approval given Mr. Davis by the inspector to do this work is hereby confirmed.

The company should notify this department using one of our regular forms, designating a certain day on which this well will be ready for test of water shut off, when an inspection will be made by this department in the usual manner.

R. P. McLAUGHLIN,
State Oil and Gas Supervisor

By *M. J. Moran* Deputy

PAN AMERICAN PETROLEUM & TRANSPORT COMPANY

PAN AMERICAN PETROLEUM COMPANY SUBSIDIARY

EDWARD L. DOHENY, PRESIDENT.
HERBERT G. WYLIE, VICE PRESIDENT
J. M. DANZIGER, VICE PRESIDENT.
E. L. DOHENY, JR., VICE PRESIDENT.
NORMAN BRIDGE, TREASURER
O. D. BENNETT, SECRETARY.

FIELD OFFICE
NORDHOFF, CALIFORNIA

SECURITY BUILDING
LOS ANGELES

February 4, 1918

LOS ANGELES
FEB 5 1918

Mr. M. J. Kirwan,
Deputy State Oil & Gas Supervisor,
520 Union League Building,
Los Angeles, California.

PAN AMERICAN PETROLEUM WELL No. 1, TRI-CITY LEASE
SECTION 35-1-12, MONTEBELLO FIELD, SBB&M

Dear Sir:

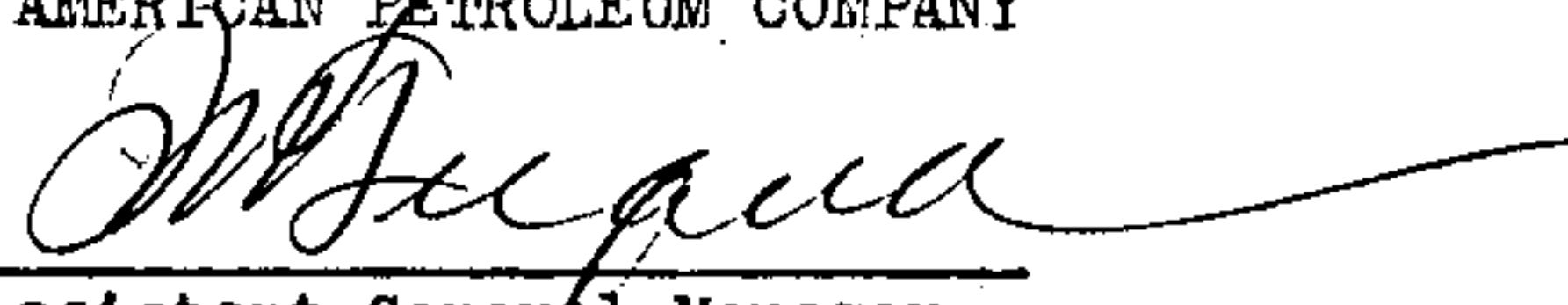
Please refer to my letter addressed to you under date of January 17th, regarding proposed test on our Tri-City Well, Section 35-1-12, Montebello Oilfield. The second sentence in the second paragraph of this letter reads "after drilling and taking the bridge out and going on into the sand at 1663 feet we drilled ahead to 1773 feet". This latter figure should be 1673 feet instead of 1773 feet. I would also refer you to the end of the 5th line in the second paragraph of your report No. P 1-195, dated January 18th. This figure 1773 should be changed to 1673.

I am making the above corrections on the papers in my files here and would thank you to kindly change those in the files in your office.

Yours very truly

PAN AMERICAN PETROLEUM COMPANY

By


Assistant General Manager.

ARW:MA

California State Mining Bureau

DEPARTMENT OF PETROLEUM AND GAS

Report on Test of Water Shut-off

No. T. 1-96

Los Angeles,

Cal. January 24th,

1918.

Mr. I. W. Fugua,

Los Angeles,

Cal.

Agent for Pan-American Petroleum Company

DEAR SIR:

Tri-City

Your well No. 1 Section 35 T 1 S R 12 W S.B.

Montebello

Oil Field, in

Los Angeles

County, was this day tested

on Jan. 22, 1918, B. & M.

for shut-off of water. Mr. H. J. Kirwan, designated by the supervisor, was present as prescribed in Section 19,

Chapter 718, Statutes 1917, and there were also present R. B. Moran, A. H. Davis, Mr. Wilson and J.

Allorman and W. M. Stewart, drillers.

Location of the water tested See below

Depth and manner of water shut-off (Top Bottom, etc.)

Casing record of well 10" casing cemented at 1630' 2" (water not shut off). (Casing cemented, landed, or hole plugged up)

Reported total depth of hole 1630 feet. Bailer went to feet and brought up

Water bailed out to feet at (Time and date) At (Time and date)

bailer run to feet.

Result of bailing test

Result of pumping test

Date well put to pumping Pump depth

At the end of days well made barrels of fluid of which per cent was water, coming from

Fluid level before water was shut off feet; after water test feet.

The deputy supervisor was present at this well to witness the placing of a cement plug between depths of 1630' and the shoe of the 12 1/2" casing, by the Huber & Wilson process.

Records furnished by the company state that the well was cleaned out to a depth of 1635' through 10" casing and that a brick bridge was placed from this depth up to a depth of 1630'. Mr. A. H. Davis stated that the well was tubed to a depth of 1626' 9" and the 10" casing pulled up into the 12 1/2" casing to a depth of 1585'.

The deputy supervisor witnessed the following cementing operation: 40 sacks of Riverside-Portland oil well special cement, to which was added the Huber & Wilson accelerator, was pumped into the well through 3" tubing. Packing clamps were set so as to pack off between the 12 1/2" and 10" casings. After the cement had been pumped into the well, the tubing was pulled up to a depth of 1600' and water pumped into the tubing circulated out cement through the 10" casing. Mr. Wilson stated that the cement which was circulated out was from above a depth of 1600'.

It is the understanding of this department that regular notice of test of water shut off will be filed with this department and that test of water shut off will be witnessed in the usual manner.

CC- Mr. R. B. Moran.
Mr. W. T. McGinley.

R. P. McLAUGHLIN,
State Oil and Gas Supervisor

By H. J. Kirwan Deputy

PAN AMERICAN P

Notice of Test of Water Shut-off

T COMPANY

PAN AMERICAN PETROLEUM COMPANY
SUBSIDIARY

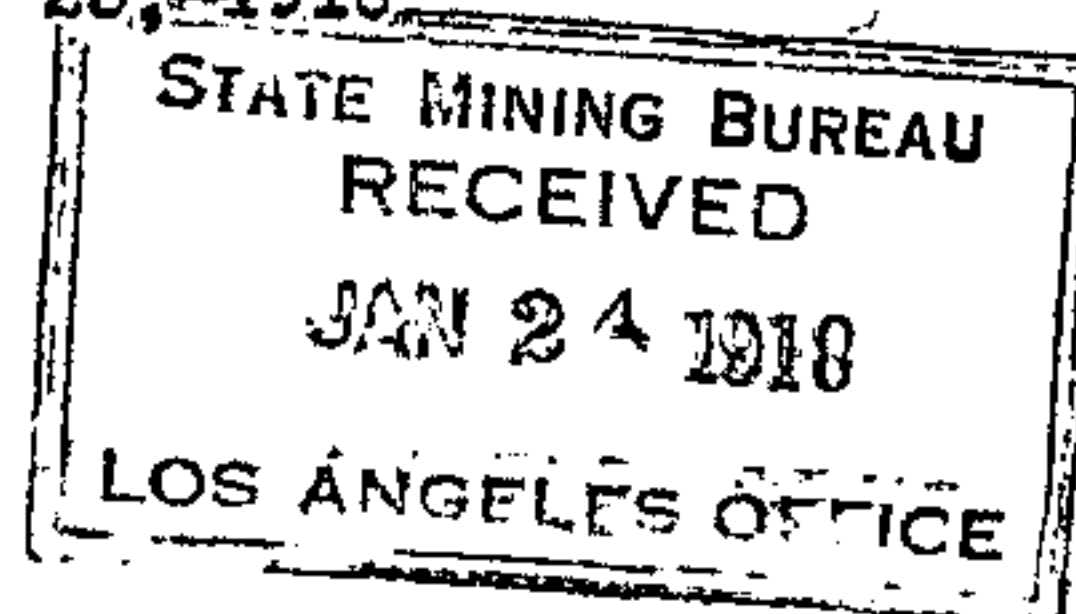
EDWARD L. DOHENY, PRESIDENT.
HERBERT G. WYLIE, VICE PRESIDENT
J. M. DANZIGER, VICE PRESIDENT.
E. L. DOHENY, JR., VICE PRESIDENT.
NORMAN BRIDGE, TREASURER
O. D. BENNETT, SECRETARY.

FIELD OFFICE
NORDHOFF, CALIFORNIA

SECURITY BUILDING
LOS ANGELES

1 - sec. 35 - T. 1 S. R. 12. W. 1

January 23, 1918



Mr. M. J. Kirwan,
Deputy State Oil & Gas Supervisor,
520 Union League Building,
Los Angeles, California.

Dear Sir:

In compliance with our proposed test of Tri-City Well, which was made to you under date of January 17th, 1918, I submit herewith a report of the construction and method used in putting in bridge under the supervision of and approval of yourself, or your representative, Mr. A. H. Davis, Mr. Robert B. Moran and Mr. John Golaspy:

Hole cleaned out to 1663 feet through 10" casing. Commenced putting in brick and driving them down with tools, and raised 10" casing 2 feet at a time, according to the gradual raising of the bridge, until the top of it reached 1630 feet, then 3" tubing was put in with a nipple on the bottom, that was plugged and which had 5 three-quarter inch holes in the side. The tubing was placed at a depth of 1626 feet, and the hole was washed thoroughly of all free mud or formation, then 40 sacks of Riverside Portland Special Oilwell Cement was placed in the bottom, after which the tubing was raised to 1600 feet and water was pumped through the tubing, which washed all of the excess cement above the 12 1/2" shoe out of the hole between the 10" and 12 1/2" casing, the shoe of the 10" casing setting at 1585 feet. This bridge was concluded on the 22nd day of January, 1918, and I now propose that the bridge be tested out to determine the source of the water on February 5th, 1918, with yourself or representative, our Mr. Davis, Mr. Moran and Mr. Golaspy to decide the manner and method in which the test is to be made.

Yours very truly,

PAN AMERICAN PETROLEUM COMPANY

By

[Signature]
Assistant General Manager.

IWF:MA

X

January 18, 1918.

Mr. R. P. McLaughlin,
State Oil and Gas Supervisor,
State Mining Bureau,
San Francisco, Cal.

Dear Sir:

I am enclosing you herewith certain copies of correspondence which I have had with the Pan American Petroleum Company, relative to their Tri-City Well No. 1, Section 35, T. 1-S, R. 12-W, S B B.&M., Montebello Field, in order that you may have a complete file concerning this well.

Upon my suggestion, a meeting was held at the well yesterday attended by Mr. Fuqua of the Pan American Petroleum Co., Mr. R. B. Moran and Mr. Bender of the Riverside Portland Cement Co., and Mr. Golaspy of the Clara Baldwin Stocker Oil Estates, in order to discuss and outline a policy relative to further work which may be necessary at this well in order to determine if possible, the source of the water entering the well.

Mr. Fuqua appeared to be somewhat hostile to any recommendations which we would make relative to further tests at the well. The difficulty was bridged by Mr. Moran offering to interview Mr. W. T. McGinley, representing the Clara Baldwin Stocker interests, and pay for the materials and labor used in placing a plug below the shoe of the 12 $\frac{1}{8}$ " casing.

Previous to Mr. Moran's offer to stand the expense of testing the well, Mr. Fuqua intimated that he would appeal to the District Oil and Gas Commissioners in case we recommended that the Pan American Petroleum Company test this well further by plugging below the 12 $\frac{1}{8}$ " casing. I told Mr. Fuqua that any move that he would make to place the matter before the Commissioners would not deter us from making recommendations relative to this well which we thought were necessary and proper. The log of this well filed by the company shows that oil sand was encountered at a depth of 1663 ft., and penetrated to a depth of 1665 ft, previous to the time the 12 $\frac{1}{8}$ " casing was cemented. Mr. Golaspy stated in the presence of Mr. Moran and myself that he saw a small showing of oil which evidently came from the well.

I shall keep you fully informed regarding development at this well.

Yours very truly,

M. J. Moran

MJK/W

California State Mining Bureau

DEPARTMENT OF PETROLEUM AND GAS

1st page

Report on Proposed Operations

No. P. 1-195

Los Angeles

Cal.

Jan. 18,

1918

Mr. I. W. Faqua

Los Angeles

Cal.

Agent for Pan American Petroleum Company

DEAR SIR:

Your proposal to supplementary casing Tri-City plug below 12 1/2" well No. 1 Section 35 T. 1 S. 12 W. S. B. B. & M.,

Montebello

Oil Field

Los Angeles

County, dated

January 17 1918

has been examined in conjunction with records filed in this office.

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

RECORDS AND PROPOSAL are as follows:

"Pursuant to and in confirmation of our understanding of a further proposed test on our Tri-City Well, which was agreed to today at the meeting held at the well, at which yourself, Mr. R. B. Moran of the Riverside Portland Cement Company, Mr. John Golaspy of the Walter T. McGinley interests, our Mr. A. H. Davis, and myself were present, I hereby submit the proposal in writing as follows:

In connection with my proposal to you under date of the 12th instant and your reply thereto under date of the 16th instant, wish to advise that after putting the 10" casing in we found that the bridge below the 12 1/2" shoe was not of a very substantial character. After drilling and taking the bridge out and going on into the sand at 1663 feet we drilled ahead to 1773 feet, making about eight feet deeper in the sand with the cable tools than we drilled with the rotary, the sand not showing at any time any indication of oil or gas, the water raising up to approximately 100 feet from the top of the hole, and after testing it out with a bailer found that we could not lower it any to amount to anything, and while we feel perfectly satisfied from our personal observation of the well that the water is coming from the sand below 1663 feet, and for the purpose of making a further and more extensive and exhaustive test, and to satisfy the interests represented by both Mr. Moran and Mr. Golaspy, aside from our own interest in the test, we now propose to put in another bridge consisting of such material, and in the manner to be decided upon by Mr. Moran, Mr. Golaspy and Mr. Davis. The three latter gentlemen being selected by myself, and with their approval and consent to give their time, effort and experience in putting in the bridge satisfactory to all concerned, subject to the approval of yourself or your personal representative, Mr. Moran being agreed upon and delegated as the one to communicate with your Department when you may be called upon for the purpose of making any inspection, the purpose of the bridge now being for the preventing of the free passage of water from the sand at 1663 feet to a reasonable distance below the 12 1/2" shoe, so that a more definite and satisfactory test may be obtained as to whether the 12 1/2" casing that is now in the well and cemented, is permitting any water to either come through the casing or around the shoe into the hole.

(See next page)

R. P. McLAUGHLIN,

State Oil and Gas Supervisor

By

Deputy

See letter from company dated Feb 4, 1918. Case

California State Mining Bureau

DEPARTMENT OF PETROLEUM AND GAS

Report on Proposed Operations

2nd page

No. P. 1-195

Cal. Jan. 18 1918

Mr. L. V. Tuqua,

Los Angeles, Cal.

Agent for Pan American Petroleum Company

DEAR SIR:

Your proposal to supplementary 12 1/2 casing Tri-City
plug below well No. 1 Section 35 T. 1 S R. 12 W. S. B. & M.,

Montebello Oil Field County, dated 1918

has been examined in conjunction with records filed in this office.

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

Continued from first page.

"After the bridge has been put in I will advise your Department, in detail, as to its construction, at which time I will set the proposed time of making water test, so that you may be fully informed, and can have either yourself or your representative there to pass upon the conditions."

RECOMMENDATION:

The proposal to plug below the 12 1/2" casing, which is cemented below the depth of 1598' 2", to determine whether or not water is entering the well around or through the 12 1/2" casing, or from formations encountered below this casing, is satisfactory to this department.

A representative of this department will witness test of water shut off in the usual manner, upon receipt of notice mentioned in your proposal.

Recommendation:

R. P. McLAUGHLIN,
State Oil and Gas Supervisor

By *M. J. Curran* Deputy

PAN AMERICAN PETROLEUM & TRANSPORT COMPANY

PAN AMERICAN PETROLEUM COMPANY SUBSIDIARY

EDWARD L. DOHENY, PRESIDENT.
HERBERT G. WYLIE, VICE PRESIDENT.
J. M. DANZIGER, VICE PRESIDENT.
E. L. DOHENY, JR., VICE PRESIDENT.
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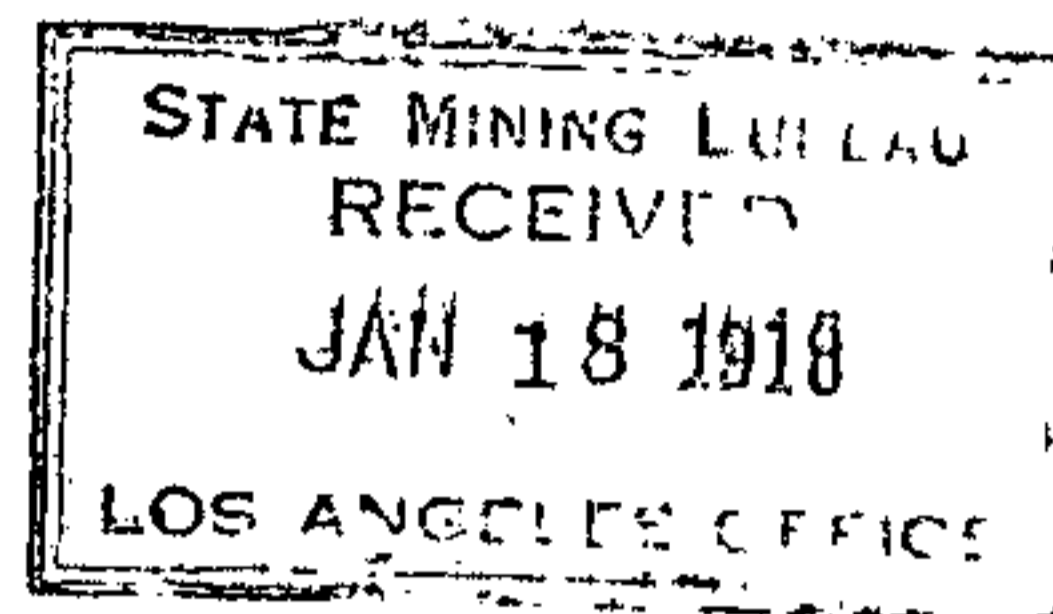
FIELD OFFICE
NORDHOFF, CALIFORNIA

Sec. 35-12 R. 12H
M.J.K.

SECURITY BUILDING
LOS ANGELES

January 17, 1918

Mr. M. J. Kirwan,
Deputy State Oil and Gas Supervisor,
620 Union League Building,
Los Angeles, California.



Dear Sir:

Pursuant to and in confirmation of our understanding of a further proposed test on our Tri-City Well, which was agreed to today at the meeting held at the well, at which yourself, Mr. R. B. Moran of the Riverside Portland Cement Company, Mr. John Golaspy of the Walter T. McGinley interests, our Mr. A. H. Davis, and myself were present, I hereby submit the proposal in writing as follows:

In connection with my proposal to you under date of the 12th instant and your reply thereto under date of the 16th instant, wish to advise that after putting the 10" casing in we found that the bridge below the 12 $\frac{1}{2}$ " shoe was not of a very substantial character. After drilling and taking the bridge out and going on into the sand at 1663 feet we drilled ahead to ~~1775~~ ¹⁶⁷⁵ feet, making about eight feet deeper in the sand with the cable tools than we drilled with the rotary, the sand not showing at any time any indication of oil or gas, the water raising up to approximately 100 feet from the top of the hole, and after testing it out with a bailer found that we could not lower it any to amount to anything, and while we feel perfectly satisfied from our personal observation of the well that the water is coming from the sand below 1663 feet, and for the purpose of making a further and more extensive and exhaustive test, and to satisfy the interests represented by both Mr. Moran and Mr. Golaspy, aside from our own interest in the test, we now propose to put in another bridge consisting of such material, and in the manner to be decided upon by Mr. Moran, Mr. Golaspy and Mr. Davis. The three latter gentlemen being selected by myself, and with their approval and consent, to give their time, effort and experience in putting in the bridge satisfactory to all concerned, subject to the approval of yourself or your personal representative, Mr. Moran being agreed upon and delegated as the one to communicate with your Department when you may be called upon for the purpose of making any inspection, the purpose of the bridge now being for the preventing of the free passage of water from the sand at 1663 feet to a reasonable distance below the 12 $\frac{1}{2}$ " shoe, so that a more definite and satisfactory test may be obtained as to whether the 12 $\frac{1}{2}$ " casing that is now in the well and cemented, is permitting any water to either come through the casing or around the shoe into the hole.

After the bridge has been put in I will advise your Department, in detail, as to its construction, at which time I will set the proposed time of making water

See letter dated Feb 4, 1918
Case

PAN AMERICAN PETROLEUM & TRANSPORT COMPANY

PAN AMERICAN PETROLEUM COMPANY SUBSIDIARY

EDWARD L. DOHENY, PRESIDENT.
HERBERT G. WYLIE, VICE PRESIDENT.
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NORMAN BRIDGE, TREASURER.
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FIELD OFFICE
NORDHOFF, CALIFORNIA

SECURITY BUILDING
LOS ANGELES


M. J. Kirwan #2.

test, so that you may be fully informed, and can have either yourself or your representative there to pass upon the conditions.

Yours very truly,

PAN AMERICAN PETROLEUM COMPANY

By


Assistant General Manager.

IWF:MA

California State Mining Bureau

DEPARTMENT OF PETROLEUM AND GAS

Report on Test of Water Shut-off

No. T. 1-82

Los Angeles

Cal. Jan. 17, 1918

Mr. I. W. Fuqua
1037 Secutiry Bldg.
Los Angeles, Cal.

Agent for Pan American Petroleum Company

DEAR SIR:

Your well No. 1 Section 35 T. 1 S. R. 12 W. S. B. B. & M.,
Montebello Oil Field, in Los Angeles County, was this day tested

for shut-off of water. Mr. J. B. Case, designated by the supervisor, was present as prescribed in Section 19,

Chapter 718, Statutes 1915, and there were also present Mr. I. W. Fuqua, Ass't Gen. Manager; Mr. Davis, foreman; Mr. R. B. Moran and Mr. Bender, Riverside Portland Cement Co.; Mr. Goleapy, Supt. of C. B. Stocker Oil Estates; Mr. M. J. Kirwan, Deputy Supervisor; and Mr. N. J. Alleman, driller.

Location of the water tested

Depth and manner of water shut-off 12 1/2" casing recemented at 1598' 2" with 40 sacks through tubing under 800' P. (Casing cemented, landed, or hole plugged up)

Casing record of well 12 1/2" casing 1598' 2" 10" casing 1663' (working freely in hole) Sand, mud, pieces of cement and water, no oil perceptible.

Reported total depth of hole 1673 feet. Bailer went to 1650' 5" feet and brought up

Water bailed out to 144 feet at 6 P.M., Jan. 16, 1918. At 10:30 A.M., Jan. 17, 1918

bailer run to 1650' 5" feet.

Result of bailing test Bailer run to 159' and brought up 15' of water in bailer and no oil, indicating that fluid set 149' from the surface. Bailer run to 1650' 5" and brought up water, mud, sand, pieces of cement, and no oil. Bailer was again run to 1650' 5" and brought up water, mud, sand, pieces of cement, and no oil.

Date well put to pumping Pump depth

At the end of days well made barrels of fluid of which per cent was water, coming from

Fluid level before water was shut off feet; after water test feet.

Mr. Fuqua and Mr. Alleman (driller) reported that when water was bailed down to 900', it filled back up to 250' from surface, at the rate of 100' per hour.

Conclusion: The bailer which went to a depth of 1650' 5", shows that about 12' of mud and sand had entered the 10" casing. This mud and sand may retard or prevent fluid in the formation from entering the 10" casing while standing for a test. Conclusion of Deputy Supervisor: the 10" casing which was recemented at depth of 1598' 2" does not prevent water from entering well. The source of water entering well has not been definitely determined.

Recommendation: I recommend that the company conduct further tests at this well in order to determine if possible, the source of water entering the well. Mr. Fuqua's verbal proposal to file a notice covering further work in the matter of plugging below the 12 1/2" casing, is satisfactory to this department, and upon receipt of this notice further recommendation will be made.

R. P. McLAUGHLIN,

State Oil and Gas Supervisor

By M. J. Kirwan Deputy

California State Mining Bureau

DEPARTMENT OF PETROLEUM AND GAS

Report on Proposed Operations

Page 1
No. P 1-191

Los Angeles Cal. January 16, 1918

Mr. I. W. Fuqua

Los Angeles Cal.

Agent for Pan American Petroleum Company

DEAR SIR:

Your proposal to ^{supplementary} ~~deepen and test~~ well No. ^{Tri City} 1 Section 35 T. 1 S. R. 12 W. 3. B. B. & M.

Mentebello Oil Field Los Angeles County, dated Jan. 12 1918

has been examined in conjunction with records filed in this office.

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

RECORDS:

Records furnished this department show that 12 $\frac{1}{2}$ " casing was cemented at a depth of 1598ft. 2 in., on Nov. 13, 1917, and that the well has been drilled to a depth of 1665 ft., encountering a small showing of oil and considerable gas between depths of 1663' and 1665', and that when test of water shut off was made it was found that the 12 $\frac{1}{2}$ " casing did not prevent water from entering the well, and that plugs or bridges were put in below the 12 $\frac{1}{2}$ " casing without definitely determining the source of this water.

I note in your letter of January 12, that that you expressed that you are of the opinion that water is not entering the well from behind the 12 $\frac{1}{2}$ " casing, and that water must be coming up from a depth lower than the top of the bridge which is 3 ft. and 10 in. below the 10 $\frac{1}{2}$ " shoe.

PROPOSAL:

The proposal is as follows: "I now propose to put the 10" casing in the well, drilling out the bridges and on into the sand from which we secured a showing of gas when drilling with the rotary, and drill into this sand several feet further than the rotary depth (if there is that much sand there) and see if the Standard tool drilling indicates anything further or different than the rotary drilling, and to make, if possible, a further bailing test for the purpose of determining if the sand contains any commercially recoverable oil, at which time I will discuss with you as to the advisability of further work on the well."

RECOMMENDATION:

The proposal to deepen this well several feet below the depth of 1665' with Standard tools in order to make further tests relative to showings of oil, is satisfactory to this department.

This department should be notified in order that a representative may be present to witness bailing tests, after work of deepening has been completed.

It is the opinion of this department that in most cases a satisfactory test cannot be made of a sand to determine its oil content when water

R. P. McLAUGHLIN,
State Oil and Gas Supervisor

By *M. J. Furman* Deputy

California State Mining Bureau

DEPARTMENT OF PETROLEUM AND GAS

Report on Proposed Operations

PAGE 2
No. P. 1-191

Cal. 191

Mr. I. W. Fuqua

Cal.

Agent for Pan American Petroleum Company

DEAR SIR:

Your ^{supplementary} proposal to deepen and test well No. Tri City 1 Section 38 T. 15 S R. 12 W S. D. B. & M.,
Montebello Oil Field County, dated 191

has been examined in conjunction with records filed in this office.

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

Continued from Page 1.

above sand has not been shut off. The log of this well shows that blue shale was penetrated between depths of 1588' and 1658', which should leave sufficient space in which to place cement plug below the shoe of the 12 1/2" casing in order that a definite test may be made to determine whether or not water enters the well from below the top of the plug, or around the 12 1/2" casing.

Your proposal to discuss the advisability of further work on this well after making the bailing tests outlined above, is satisfactory to this department.

Recommendation:

R. P. McLAUGHLIN,
State Oil and Gas Supervisor

By M. J. Fuqua Deputy

Office MEMO.

Office, Jan. 12th, 1918.

Pan-American Petroleum Co. Tri-City Well No. 1, Sec. 35, T. 1 S., R. 12 W.

I. W. Fuqua called over telephone this date and stated that he proposed to drill out the bridge below the water string in this well and deepen about 10 or 15 ft., using 10" casing in order to test the sand which was recorded as an oil sand at a depth of 1663. (case)

I suggested to Mr. Fuqua it probably would be advisable to put in a new bridge below the 12 $\frac{1}{2}$ " casing, or continue plugging with cement on top of the present bridge which Mr. Fuqua reported to be 15 ft. below the shoe up to within 5 ft. of the shoe of the water string, in order to make further test, particularly on account of the fact that Mr. Fuqua was of the opinion that water came from the sand encountered below the shoe of the water string and not from around the water string.

I stated further that his company could be in position to put in a solid cement plug to shut off this water in case it is coming from below, in order to demonstrate whether or not the water string was effectively excluding water from the well from above the shut off point. Mr. Fuqua agreed to file a proposal outlining further work in drilling out the present cement plug and deepening about 15 ft. for further test. He also stated that it would be advisable to drill out the present plug, even though it would be necessary to put in a new plug under the shoe of the water string, as the present plug was evidently not effective.

M. Merian

PAN AMERICAN PETROLEUM & TRANSPORT COMPANY

PAN AMERICAN PETROLEUM COMPANY SUBSIDIARY

EDWARD L. DOHENY, PRESIDENT.
HERBERT G. WYLIE, VICE PRESIDENT.
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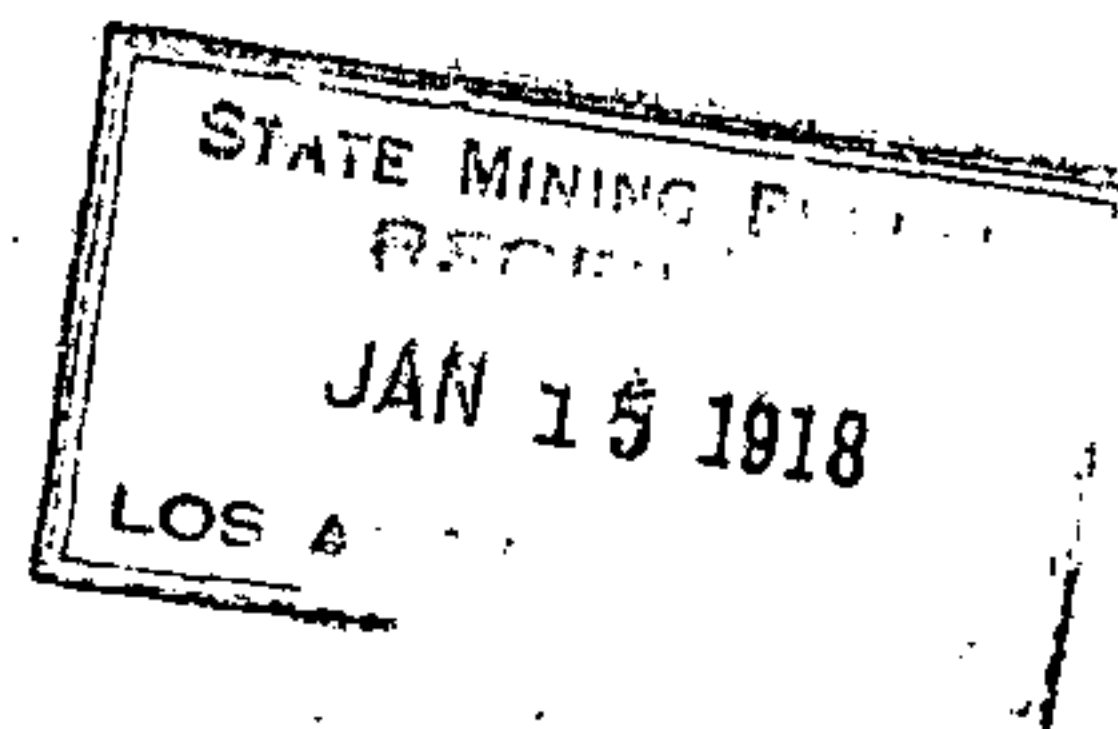
FIELD OFFICE
NORDHOFF, CALIFORNIA

SECURITY BUILDING
LOS ANGELES

#1 Sec. 35 - 1 - 12

January 12, 1918

(C)
Mr. M. J. Kirwan,
Deputy State Oil & Gas Supervisor,
520 Union League Building,
Los Angeles, California.



Dear Sir:

In confirmation of and referring to our telephone conversation of this morning, regarding re-cementing on December 19th, 1917 of Tri-City Well No. 1, and for your information, wish to advise that we found approximately 20 feet of cement in the casing on going back into the well for the test, and reinstalled a rotary outfit for the purpose of rotating out this cement in the pipe, which was continued to a depth of 1602 feet, which is 3 feet 10" below the 12 $\frac{1}{2}$ " shoe; this latter depth being a little different than I stated during our telephone conversation this morning. We bailed the water down yesterday to a depth of 900 feet from the top of the well and left it standing over night, finding, this morning, the water to be 250 feet from the top of the hole and upon running the bailer again this morning to the bottom of the hole we find it to be clean, indicating, I think, without any doubt, that the water is not coming in from back of the 12 $\frac{1}{2}$ " casing, believing now that the water must be coming up from a depth lower than the top of the bridge, and as suggested this morning during our conversation, and which met with your approval, I now propose to put the 10" casing in the well, drilling out the bridges and on into the sand from which we secured a showing of gas when drilling with the rotary, and drill into this sand several feet further than the rotary depth (if there is that much sand there) and see if the Standard tool drilling indicates anything further or different than the rotary drilling, and to make, if possible, a further bailing test for the purpose of determining if the sand contains any commercially recoverable oil, at which time I will discuss with you as to the advisability of further work on the well.

Yours very truly,

PAN AMERICAN PETROLEUM COMPANY

By

W. J. Guqua
Assistant General Manager.

IWF:MA

California State Mining Bureau

DEPARTMENT OF PETROLEUM AND GAS

Report on Proposed Operations

No. P 1-170

Los Angeles,

Cal. December 28th, 1917.

Mr. I. N. Fugua,

Los Angeles, Cal.

Agent for Pan-American Petroleum Company

DEAR SIR:

Your supplementary re-cement proposal to Tri-City well No. 1 Section 35 T 1 S R. 12 W S.B. B. & M.,

Mentebello Oil Field, Los Angeles County, dated Dec. 17th, 1917.

has been examined in conjunction with records filed in this office.

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

RECORDS:

The notice states that the conditions are as follows:

"Cleaned cement out of bottom of 12 $\frac{1}{2}$ " shoe. Found top of cement hard at 1807'. Started bailing water down. Would not get below 500' from top. Water level 200' from top. Water not shut off".

PROPOSAL:

The proposal is as follows:

"We now propose cementing again with tubing and under high pressure. Will furnish further report as to now proposed cementing under pressure".

Recommendation:

The proposal to re-cement this well under pressure as outlined, is satisfactory to this department.

R. P. McLAUGHLIN,
State Oil and Gas Supervisor

By *M. J. Kirwan* Deputy

CALIFORNIA STATE MINING BUREAU

Department of Petroleum and Gas

THIS NOTICE SUPPLEMENTS AND REFERS TO NOTICES OF TEST OF WATER SHUT OFF 11/16/17, 12/7/17

Notice of Test of Water Shut-off AND 12/17/17

This notice must be given at least five days before the test, and a longer time is desirable

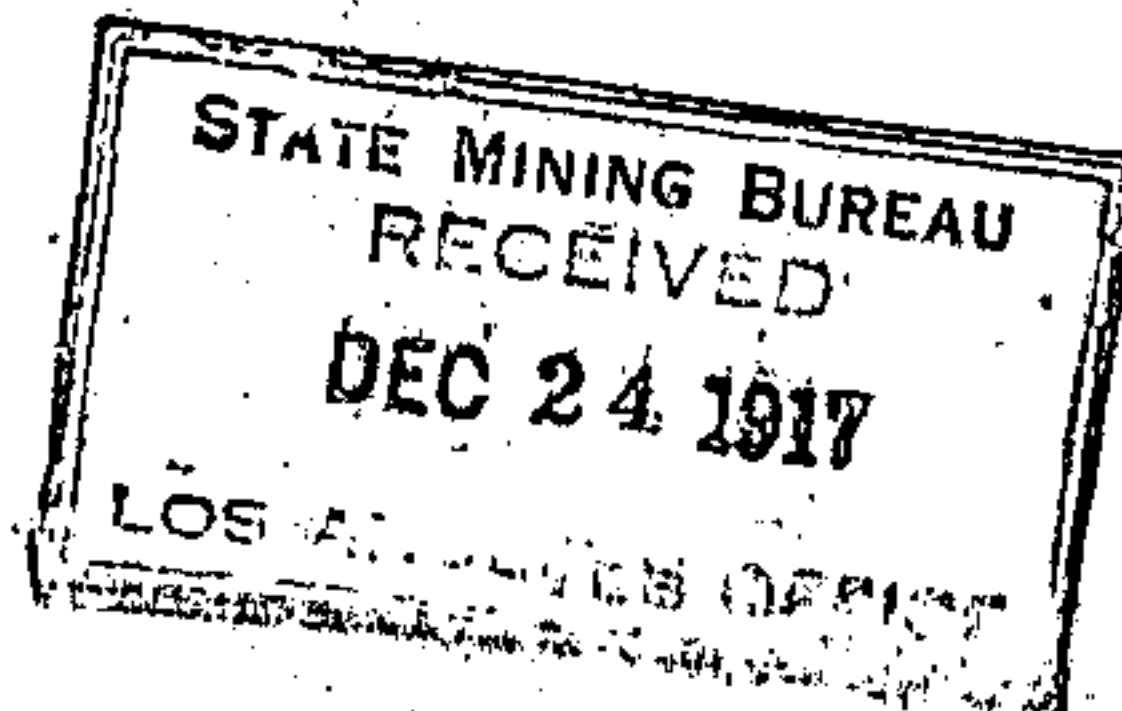
Letter

Los Angeles, Cal. December 20, 1917

Mr. M. J. Kirwan,

Deputy State Oil and Gas Supervisor

520 Union League Building, Los Angeles, Cal.



DEAR SIR:

In compliance with Section 19, Chapter 718, Statutes of 1915, notice is hereby given that it is our intention

Tri-City

to test the shut-off of water in well number 1 Section 35 T. 1-S R. 12-W S. B. B. & M.,

MONTEBELLO Oil Field, Los Angeles County,

on the _____ day of _____ 1917

_____ inch casing was cemented in _____ at _____ on _____ 1917
(Formation) (Depth) (Date)

_____ sacks of cement was used.

The _____ tubing - under pressure _____ method was used in

placing the cement.

SEE BELOW

Fluid level will be bailed to a depth of _____ feet and left undisturbed for at least 12 hours before your inspection.

The well is _____ feet deep. There ^{is not} is a plug or bridge from _____ feet to _____ feet.

40 Sacks of R. P. O. W. Cement pumped in through 3" tubing under 600# pressure. Cement forced back in formation. Tubing left in to hold pressure. Cementing done by Huber and Wilson on 12/19/17.

Respectfully yours,

PAN AMERICAN PETROLEUM COMPANY

(Name of Company or Operator)

By *[Signature]*
Assistant General Manager.

Supplementary Proposal to re-cement

CALIFORNIA STATE MINING BUREAU

Department of Petroleum and Gas

THIS NOTICE SUPPLEMENTS AND REFERS TO NOTICES OF TEST OF WATER SHUT OFF Notice of Test of Water Shut-off OF 11/16/17 & 12/7/17

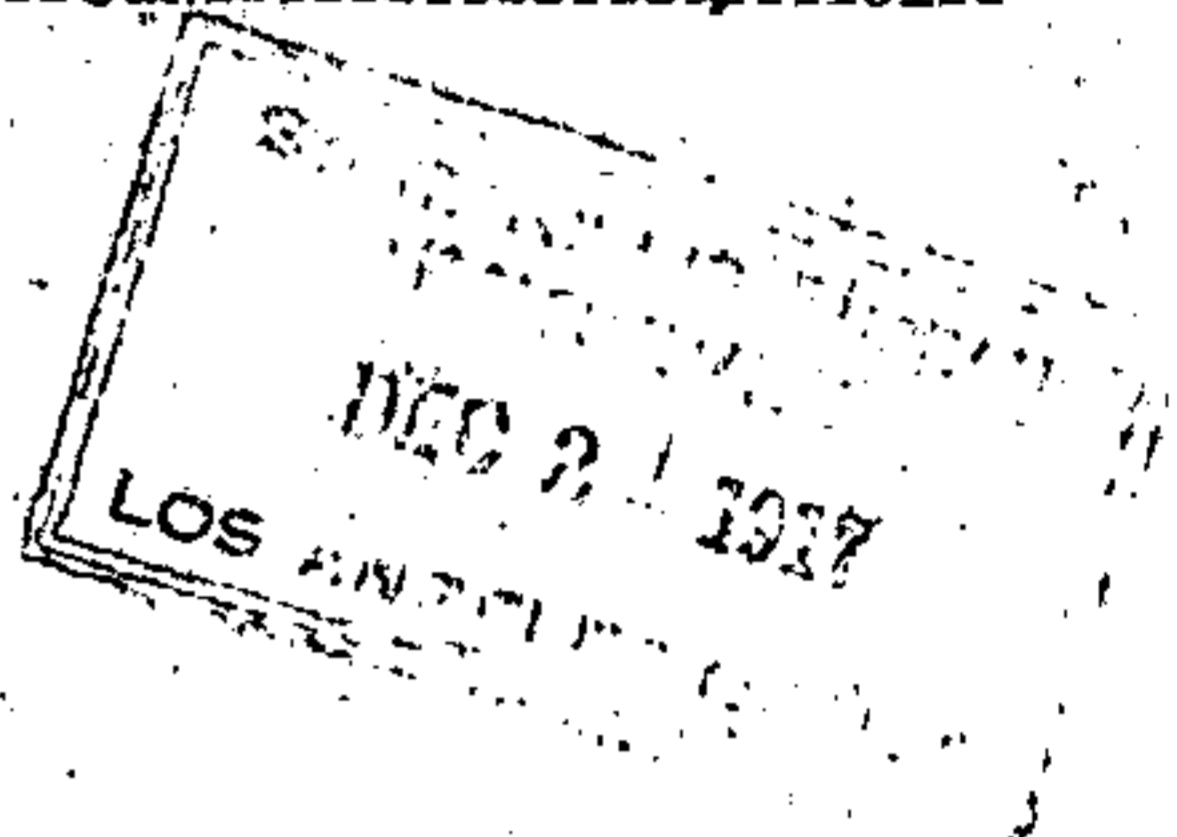
This notice must be given at least five days before the test, and a longer time is desirable

Los Angeles, Cal December 17, 1917

Mr. M. J. Kirwan,

Deputy State Oil and Gas Supervisor

520 Union League Building, Los Angeles, Cal.



DEAR SIR:

In compliance with Section 19, Chapter 718, Statutes of 1915, notice is hereby given that it is our intention

Tri-City

to test the shut-off of water in well number 1 Section 35 T. 1-S R. 12 W S. B. B. & M.,

Montebello Oil Field, Los Angeles County,

on the 17 day of December, 1917

SEE BELOW

landed

1 inch casing was cemented in _____ at _____ on _____ 1917
(Formation) (Depth) (Date)

1 sacks of cement was used.

The ~~method~~ _____ method was used in

placing the cement.

Fluid level will be bailed to a depth of _____ feet and left undisturbed for at least 12 hours before your inspection.

The well is _____ feet deep. There ^{is not} is a plug or bridge from _____ feet to _____ feet.

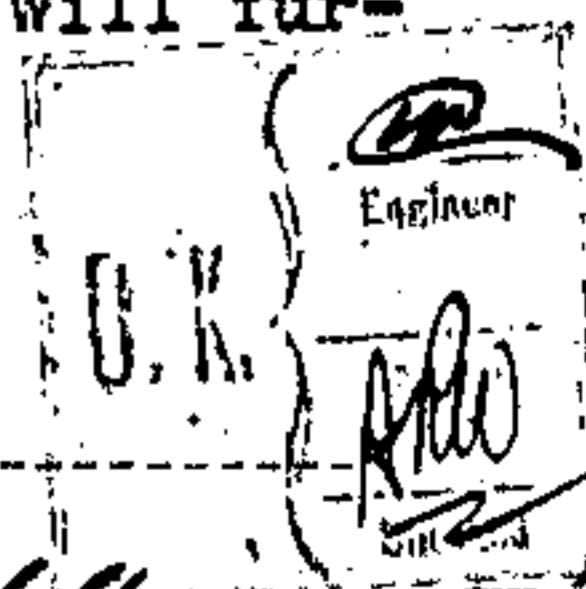
Cleaned cement out of bottom of 12 1/2" shoe. Found top of cement hard at 1607'. Started bailing water down. Would not get below 500' from top. Water level 200' from top. Water not shut off.

We now propose cementing again with tubing and under high pressure. Will furnish further report as to now proposed cementing under pressure.

Respectfully yours,

PAN AMERICAN PETROLEUM COMPANY
(Name of Company or Operator)

By *[Signature]* Assistant General Manager.



CALIFORNIA STATE MINING BUREAU

Department of Petroleum and Gas

Notice of Test of Water Shut-off

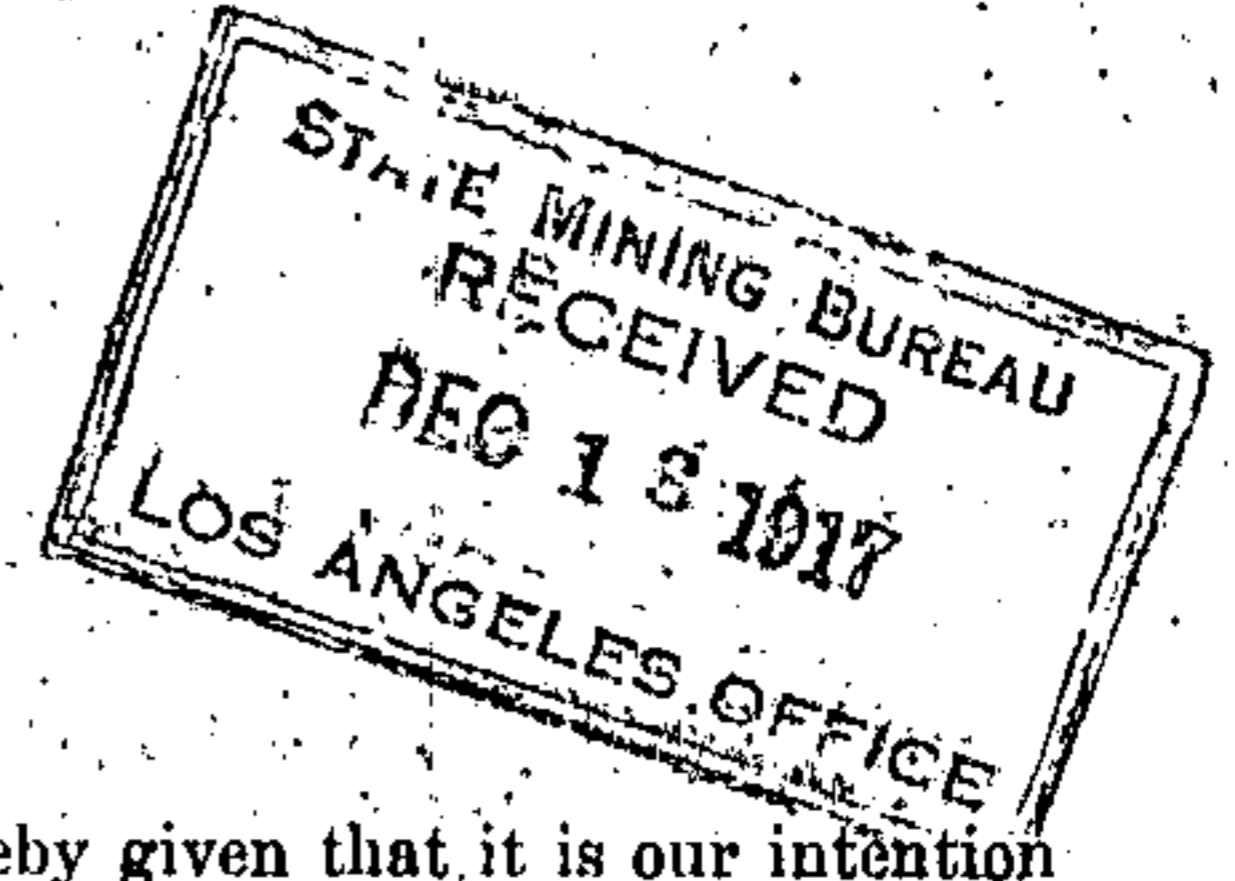
This notice must be given at least five days before the test, and a longer time is desirable

Los Angeles, Cal. December 7, 1917

Mr. M. J. Kirwan,

Deputy State Oil and Gas Supervisor

520 Union League Building, Los Angeles, Cal.



DEAR SIR:

In compliance with Section 19, Chapter 718, Statutes of 1915, notice is hereby given that it is our intention to test the shut-off of water in well number 1 Section 35 T. 1-S R. 12W S. B. B. & M., Tri-City Montebello Oil Field, Los Angeles County,

on the 17th day of December 1917.

SEE BELOW landed _____ inch casing was cemented in _____ at _____ on _____ 1917
(Formation) (Depth) (Date)

_____ sacks of cement was used.

The DUMP BAILER method was used in

placing the cement.

Fluid level will be bailed to a depth of _____ feet and left undisturbed for at least 12 hours before your inspection.

The well is _____ feet deep. There ^{is not} is a plug or bridge from _____ feet to _____ feet.

After drilling through the cement from 1595' to 1603', and bailing down, water was found in hole. Your Department advised putting in another Bridge which was done as follows: Hole cleaned out to 1630'. Put in 4' of Rope Bridge and 33 sacks of R. P. O. W. Cement on 12/5/17. Test will be made 12/17/17.

SUPPLEMENTARY NOTICE OF TEST OF WATER SHUT OFF

THIS NOTICE SUPPLEMENTS NOTICE DATED NOVEMBER 16, 1917

Fuqua reports results of bridging showed water was coming around shoe of casing. Respectfully yours,

PAN AMERICAN PETROLEUM COMPANY

(Name of Company or Operator)

By [Signature]
Assistant General Manager.

CALIFORNIA STATE MINING BUREAU

Department of Petroleum and Gas

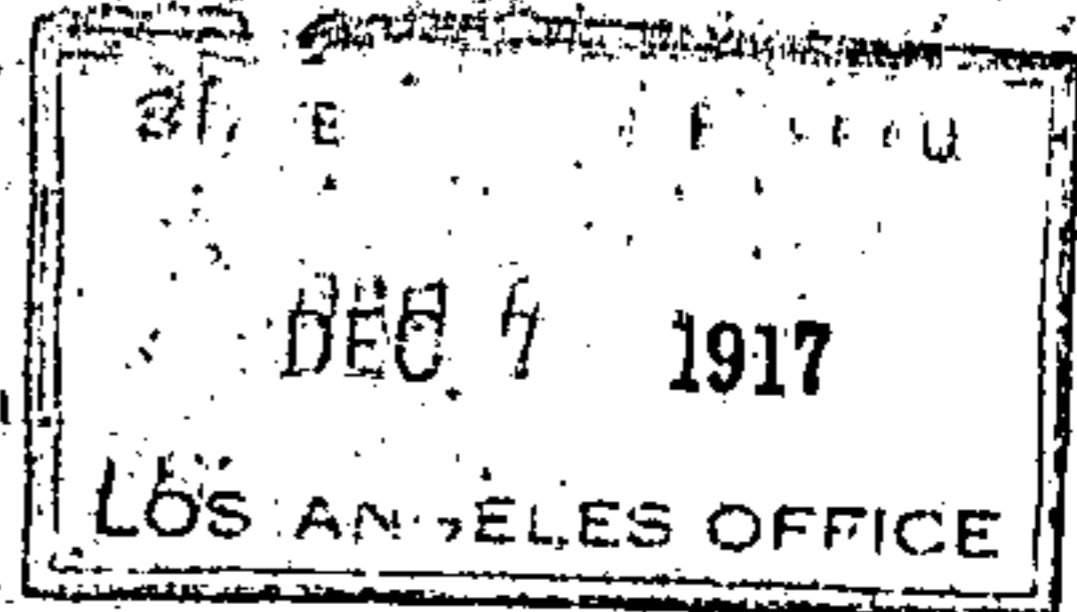
SUPPLEMENTARY NOTICE

Los Angeles, Cal. December 6, 1917

Mr. M. J. Kirwan,

Deputy State Oil and Gas Supervisor

520 Union League Building, Los Angeles, Cal.



DEAR SIR:

Please be advised that our notice to you dated November 16, 1917, ^{Notice of test of} ~~stating our intention~~
Tri-City

~~is~~ water shut off well number 1 Section 35 T. 1-S R. 12-W S.B. & M.,
(Drill, deepen, redrill, test, abandon)
Montebello Oil Field, Los Angeles County,

must be amended on account of ~~changed or recently discovered conditions~~ **error in reporting:**

~~The new conditions are as follows:~~

Report now reads:

"12 $\frac{1}{2}$ " Csg. was cemented in Blue Shale at 1619' 8" on November 13, 1917".

"The Well is 1665 feet deep. There is a bridge from 1619'8" to 1665 ft."

~~We now propose~~

Report should read:

12 $\frac{1}{2}$ " Casing was cemented in Blue Shale at 1598' 2" on November 13, 1917.

The Well is 1665' deep. There is a bridge from 1598' 2" to 1665'

Respectfully yours,



PAN AMERICAN PETROLEUM COMPANY

(Name of Company)

By M. J. Kirwan
Assistant General Manager.

MEMORANDUM

Office, Dec. 3, 1917

Pan American Petroleum Co., "Tri City No. 1", Sec.
35, T. 1 S, R 12 W?

Mr. Davis, superintendent of this property, called in today and stated that the 12 $\frac{1}{2}$ " casing was cemented in this well at a depth of 1598 ft. 2 in., with 160 sacks of cement; that the casing was tested for possible casing leaks by bailing to a depth of about 700 feet before drilling out the cement.

After drilling to a depth of 1603 feet, or 5 feet below the shoe of the casing for the purpose of making test of water shut off, the water rose to within 200-feet of the surface, and that they have been unable to bail it below this depth. He further stated that before cementing the 12 $\frac{1}{2}$ " casing a rope bridge was started at a depth of 1610 feet, and built up to 1598 feet before cementing.

In drilling out the cement to test for water shut off, subsequent bailing of the well showed that sand was coming into the well at the top of the bridge. Mr. Davis thinks that this sand may possibly be from the formation exposed between the bridge and the shoe of the casing.

He proposed to drive the bridge down about 20 or 25 feet and build it back up to within 5 feet of the shoe of the casing, and conduct further bailing tests to determine if possible whether the water is coming from below or around the shoe of the casing.

I stated that this proposal was satisfactory to this department and that it might be necessary to continue building the bridge with cement up into the 12 $\frac{1}{2}$ " casing, to test again for casing leaks, then drill two or three feet below the shoe of the casing and make a second test. *The reason for making these tests is to locate if possible, the source of the water before cementing another string of casing.* Mr. Davis agreed to keep this department informed as to the progress at this well and will notify us for test of water shut off at a later date to inspect the results of this bridging.

J. J. [Signature]

PAN AMERICAN PETROLEUM & TRANSPORT COMPANY

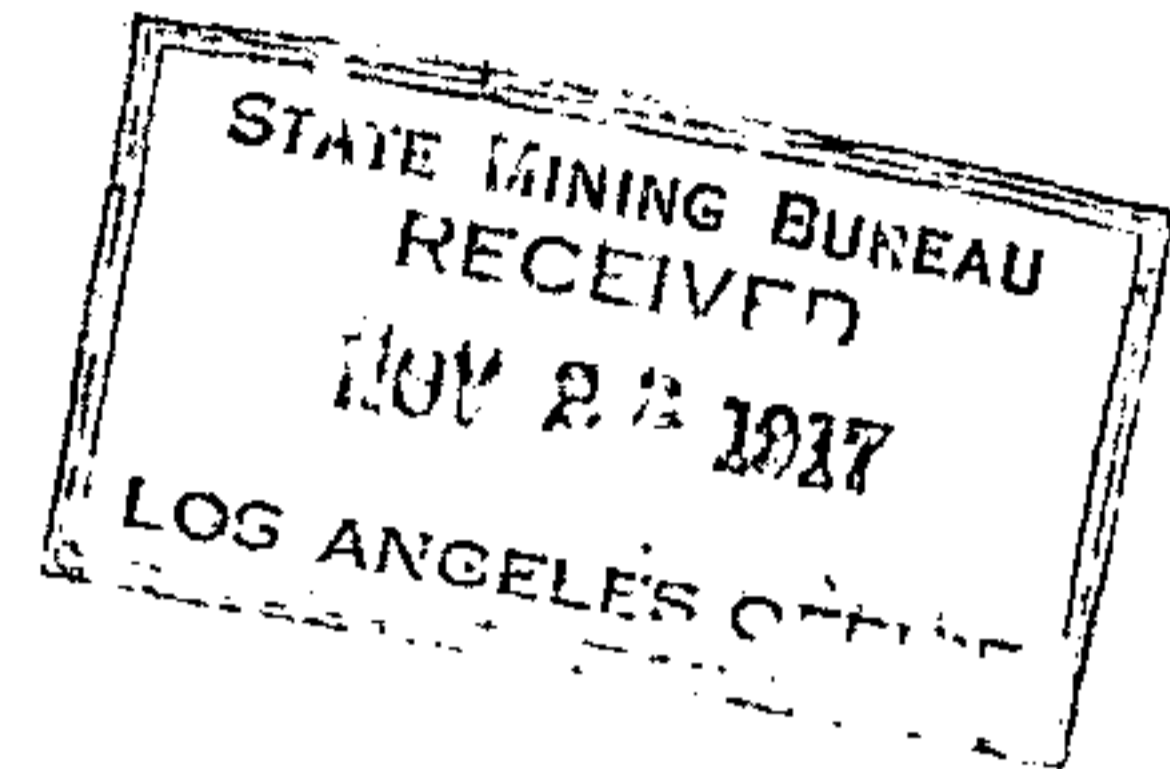
PAN AMERICAN PETROLEUM COMPANY SUBSIDIARY

EDWARD L. DOHENY, PRESIDENT.
HERBERT G. WYLIE, VICE PRESIDENT.
J. M. DANZIGER, VICE PRESIDENT.
E. L. DOHENY, JR., VICE PRESIDENT.
NORMAN BRIDGE, TREASURER.
O. D. BENNETT, SECRETARY.

FIELD OFFICE
NORDHOFF, CALIFORNIA

SECURITY BUILDING
LOS ANGELES

November 21, 1917



Mr. M. J. Kirwan,
Deputy State Oil and Gas Supervisor,
520 Union League Bldg.,
Los Angeles, California.

Dear Sir:

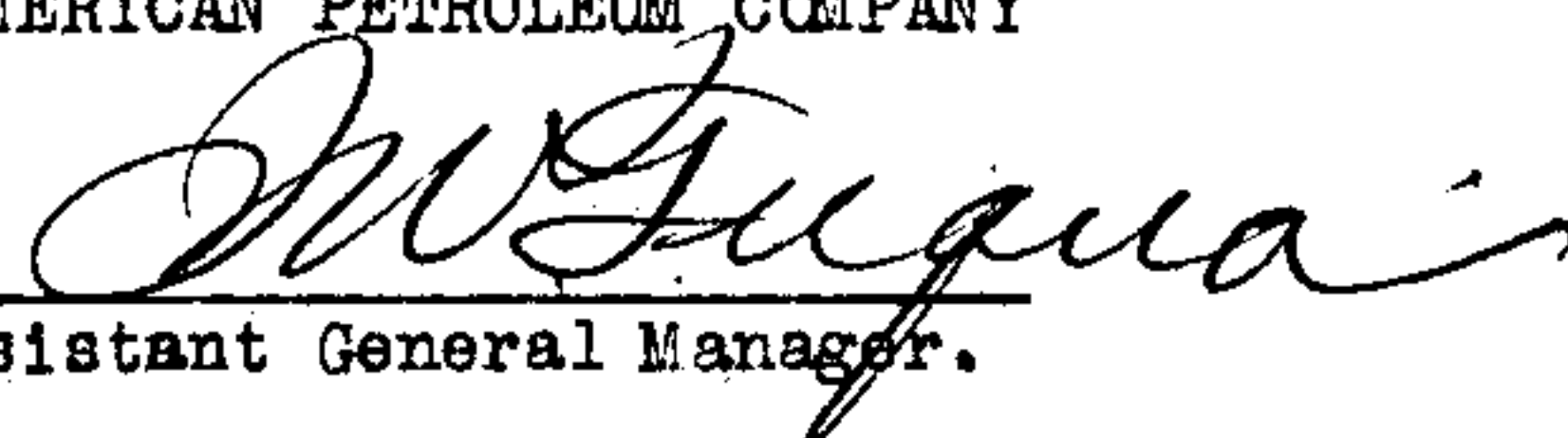
Please refer to your Form No. 105, Notice of Intention to Drill New Well, dated October 4, 1917, covering our Tri-City Well No. 2, Section 35-1-12 in the Montebello Oilfield. The Well Number on this form was erroneously reported. It should have been "Tri-City Well No. 1".

Please accept this letter as your authority for changing the records you have on file in your office in accordance with the above.

Yours very truly,

PAN AMERICAN PETROLEUM COMPANY

By


Assistant General Manager.

ARW:MA

CALIFORNIA STATE MINING BUREAU

Department of Petroleum and Gas

Notice of Test of Water Shut-off

This notice must be given at least five days before the test, and a longer time is desirable

NOV 20 1917
LOS ANGELES OFFICE

Los Angeles, Cal. Nov. 16, 1917

Mr. M. J. Kirwan,

Deputy State Oil and Gas Supervisor

520 Union League Bldg., Los Angeles, Cal.

DEAR SIR:

In compliance with Section 19, Chapter 718, Statutes of 1915, notice is hereby given that it is our intention to test the shut-off of water in well number 1 Section 35 T. 1 S R. 12W, S. B. B. & M., Montebello Oil Field, Los Angeles County,

on the 27th day of November 1917.
12 1/2 inch casing was cemented in blue shale at 1619'-8" on Nov. 13, 1917.
(Formation) (Depth) (Date)

160 sacks of cement was used.

The Tubing method was used in placing the cement.

Fluid level will be bailed to a depth of _____ feet and left undisturbed for at least 12 hours before your inspection.

The well is 1665 feet deep. There ^{is not} is a ~~plug or~~ bridge from 1619'8" feet to 1665 feet.

TRI-CITY #1

Respectfully yours,

PAN AMERICAN PETROLEUM COMPANY
(Name of Company or Operator)

By [Signature]
Assistant General Manager.

OK
M
OK

California State Mining Bureau

DEPARTMENT OF PETROLEUM AND GAS

Report on Proposed Operations

No. P. 1-100

Los Angeles, Cal. October 24th, 1917

Mr. I. W. Fugua,
1037 Security Bldg.,
Los Angeles, Cal.
Agent for Pan-American Petroleum Company

DEAR SIR:

Your proposal to commence drilling Tri-City
well No. 2 / Section 35 T. 1 S. R. 12 W. S.B. B. & M.,
Montebello Oil Field Los Angeles County, dated Oct. 4, 1917,

has been examined in conjunction with records filed in this office.

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

RECORDS:

The notice states that this is a "wild cat" well and that the company is unable to furnish estimated depth at which water should be shut off and depths at which oil or gas sands should be encountered.

Recommendation:

There is not sufficient data at hand to indicate the depth at which water should be shut off in this well.

I recommend that the company furnish this department with a daily record of log after a depth of about 2000 feet has been reached. This information will be used on our peg model of the Montebello Field, and I suggest that a representative of your company keep in close communication with this department in order that the proper cementing depth may be determined if possible.

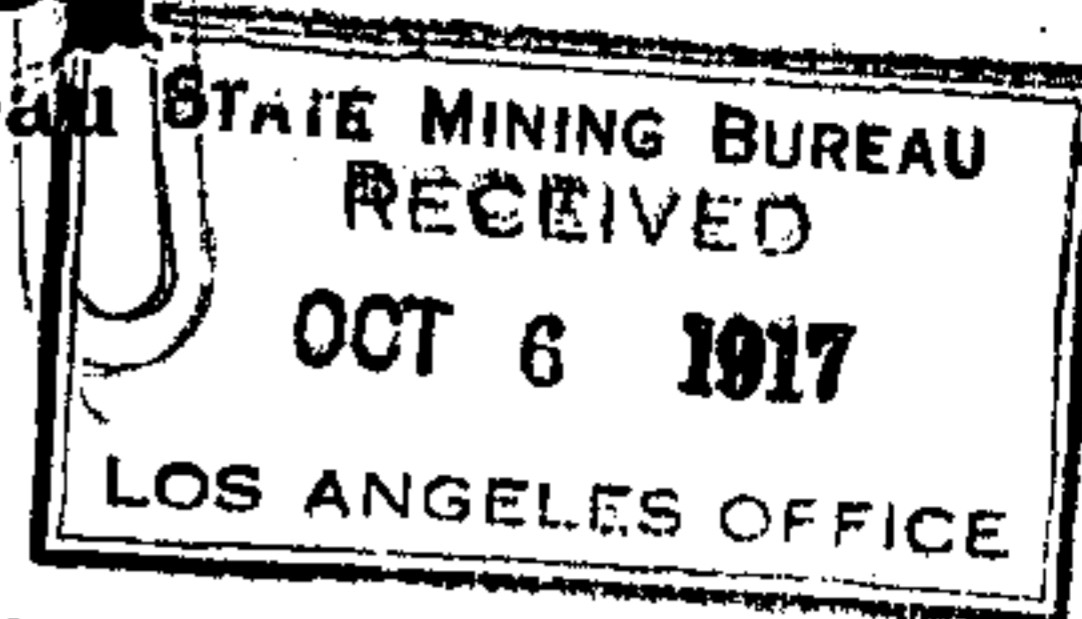
Water should be shut off above formations which may carry oil, in order that they may be properly tested.

Further recommendations will be made at a later date.

R. P. McLAUGHLIN,
State Oil and Gas Supervisor

By *M. J. ...* Deputy

California State Mining Bureau
Department of Petroleum and Gas



C Atlantic Richfield
Co.

Notice of Intention to Drill New Well

This notice must be given before drilling begins

037-05181

Los Angeles, Cal. October 4, 1917

Mr. M. J. Kirwan,

Deputy State Oil and Gas Supervisor

520 Union League Bldg., Los Angeles, Cal.

DEAR SIR:

"Tri-City" 1

In compliance with Section 17, Chapter 718, Statutes of 1915, notice is hereby given that it is our intention to commence the work of drilling well number 21 (Kirwan)

Section 35 T. 1 S R. 12 W, Montebello Oil Field,
Los Angeles County. The well is 150 feet N. ~~west~~, and 173 feet
E. ~~west~~ from S.W. Cor. of Sec. 35

The elevation of the derrick floor above sea level is 299.46 feet.

We estimate that water should be shut off at a depth of about _____ feet, more or less.

We estimate that productive oil or gas sand should be encountered at a depth of about _____ feet, more or less.

Tri-City Lease

Respectfully yours,

This being a wild cat well, we are unable at this time to furnish estimates of cementing, gas or oil depths.

PAN AMERICAN PETROLEUM COMPANY
(Name of Company or Operator)

By [Signature]
Assistant General Manager.

Address notice to Deputy State Oil and Gas Supervisor in charge of district where well is located

OK. HSC.