

NATURAL RESOURCES AGENCY OF CALIFORNIA
 DEPARTMENT OF CONSERVATION
 DIVISION OF OIL, GAS & GEOTHERMAL RESOURCES
 5816 Corporate Ave., Suite 100 Cypress, CA 90630-4731
 Phone:(714) 816-6847 Fax:(714) 816-6853

No. T 116-0605

REPORT ON OPERATIONS

WATER FLOOD PROJECT
 RANGER ZONE, FAULT BLOCK I

Ms. Madelyn (Joyce) Holtzclaw
 E & B Natural Resources Management Corporation (E0100)
 1600 Norris Rd.
 Bakersfield, CA 93308

Cypress, California
 June 01, 2016

Your operations at well "Wnf-1" 32, A.P.I. No. 037-21729, Sec. 20, T. 04S, R. 13W, SB B.&M., **Wilmington** field, in **Los Angeles** County, were witnessed on **5/2/2016**, by **Eric Weigand**, a representative of the supervisor.

The operations were performed for the purpose of **pressure testing the 8-5/8" casing**.

DECISION: **APPROVED**

EXPIRED _____
 CANCELLED _____
 MAILED _____
 EMAILED 6-10-16 TC

EW/CWK

 Kenneth A. Harris Jr.
 State Oil and Gas Supervisor

By *Daniel J. Dudak*
 For Daniel J. Dudak, District Deputy

Report on Operations
Standard Annular Pressure Test

OPERATOR E&B Natural Resources

Your operations at well Wnf-I-32 API No. 037-21729
Sec 20 , T 04S , R 13W , SB , B. & M. Wilmington Field, Los Angeles County,
were witnessed on 5/2/2016 Eric Weigand , representative of
the supervisor, was present from 1200 1330 .

There was also present Brandon Cesenas (PDI)

Casing record of present hole:

A Standard Annular Pressure Test was performed on the 8-5/8" casing. The tubing/casing annulus was
pressure tested with 1545 psig for 15 minutes. There was 0 pressure drop.

Packer Depth: 4049'

Well Status: Injecting at 1420 psi Idle Shut in

DECISION:

The pressure test is Approved Not Approved

NOTE: PDI performed the test and measured pressures with an electronic transducer.



DEPARTMENT OF CONSERVATION

Managing California's Working Lands

Division of Oil, Gas, & Geothermal Resources

5816 CORPORATE AVENUE • SUITE 200 • CYPRESS, CALIFORNIA 90630-4731
 PHONE 714 / 816-6847 • FAX 714 / 816-6853 • WEB SITE conservation.ca.gov

May 07, 2013

Mr. Mike McAdams, Agent
 E & B NATURAL RESOURCES MANAGEMENT GROUP
 1600 Norris Road
 Bakersfield, CA 93308

Subject: Overdue SAPT
 Wilmington Field

Dear Mr. McAdams:

Pursuant to California Code of Regulations, Title 14, Section 1724.10 (j)(1) each injection well must pass a pressure test of the casing-tubing annulus to determine the absence of leaks every five years. As of May 7, 2013, the Division has not received documentation that the required annular pressure test (SAPT) has been performed for the following wells:

Well Name	API #	Last SAPT	MASP (psi)
WNF I-11	037-22603	No record on file	1594
WNF I-38	037-22752	No record on file	1645
WNF I-36	037-22769	No record on file	1642
WNF I-8	037-22620	No record on file	897
WNF I-32	037-21729	No record on file	1528
WNF I-3	037-21768	No record on file	1572

Please notify this office to witness the required pressure test (SAPT). These tests must be done within 30 days from the date of this letter. If you have any questions please call Martin Wells at (714) 816-6847.

Sincerely,


 Martin Wells
 Associate Oil and Gas Engineer

Cc: Update
 Well file

MW/ND

RESOURCES AGENCY OF CALIFORNIA
 DEPARTMENT OF CONSERVATION
 DIVISION OF OIL, GAS AND GEOTHERMAL RESOURCES
REPORT OF PROPERTY AND WELL TRANSFER

Field or county Wilmington		District - Cypress (D1)	
Former owner Four Teams Oil Production & Exploration Company, Inc.		Opcode: F1535	Date August 12, 2010
SEE ATTACHMENT			
Description of the land upon which the well(s) is (are) located <p style="text-align: center;">See Attachment</p>			
Date of transfer, sale, assignment, conveyance, or exchange 8/1/2010	New Owner E & B Natural Resources Management Corp.	Operator code E0100	Type of Organization Corporation
	Address 1600 Norris Road Bakersfield, CA 93308		Telephone No. (661) 679-1700
Reported by OG30A received 8/11/2010 signed by both parties			
Confirmed by. Same as above			
New operator new status (status abbreviation) PA	Request Designation of Agent Jeffrey Blesener		
Old operator new status (status abbreviation) PA	Remarks See Operator File		
Deputy Supervisor Kenneth Carlson		Signature  Chris McCullough, Associate Engineer	

OPERATOR STATUS ABBREVIATIONS

	FORM AND RECORD CHECK LIST					
	Form or record		Initials	Date	Form or record	
PA - Producing Active						
NPA - No Potential Active						
PI - Potential Inactive	Form OGD121				Map and Book	
NPI - No Potential Inactive	Well records				Lease Files	
Ab - Abandoned or No More Wells	New well cards				Well Stat	

OGD156 (Modified 1/00)

E & B Natural Resources Mgmt. Corp.

WELL TRANSFER NOTICE

On 12-21-98

XL OPERATING COMPANY

transferred

all wells in the Wilmington field

(See OGD156 dated December 21, 1998 for complete list)

to

FOUR TEAMS OIL PROD. & EXPL., INC.

WELL TRANSFER NOTICE

Effec February 7, 1997

XTRA ENERGY CORPORATION

TRANSFERRED

all wells Wilmington

(See Operator File for Complete List)

TO

XL OPERATING COMPANY

SEE OGD156 DATED 02-7-97

Report on Operations

Steve Lang, Agent
XTRA ENERGY CORP.
P. O. Box 9
LONG BEACH CA 90801

Long Beach Calif.
January 15, 1992

Your operations at well "WNF-1" 32, API No. 037-21729,
Sec. 20, T. 4S, R. 13W, S.B. B. & M. Wilmington
Field, in Los Angeles County,
were witnessed on 11-25-91. M. Saw, Engineer, representative of
the supervisor, was present from 1330 to 1350.
There were also present J. Sturgess, Wireline Tech
Present condition of well: 13 3/8" cem 624'; 8 5/8" cem 4235', perf 4222' WSO;
6 5/8" ld 4144'-4560', perf 4159'-4555'. TD 4681'.

The operations were performed for the purpose of demonstrating that all of the injection
fluid is confined to the formations below 4222'.

DECISION:

APPROVED.

DEFICIENCIES: None.

CONTRACTOR: Flo Log

MS:df

cc: Update
Dept Oil Properties
State Lands

M. G. MEFFERD
State Oil and Gas Supervisor
By Robert H. Samuelson
Deputy Supervisor
for R. K. Baker

OK R 1/92

No. T 142-34

INJECTION (M.I.T.) SURVEY

Operator: Xtra Energy Corp. Well Designation: "WNF-I" 32

Sec. 20, T. 4S, R. 13N, SB B.&M. A.P.I. No.: 037-21729 Field: Wilmington

County: L.A. Witnessed ^{Reviewed} on (date): 11/25/91 MSJ Saw

representative of the Supervisor, was present from 1330 to 1350

Also present: J. Sturgess, Wireline Tech.

Casing record of well: 13 3/8" cem 624' ; 8 5/8" cem 4235', perf 4222' WSD ;
6 9/8" ld 4144'-4560', perf 4159'-4555' . TD 4681'.

The injection survey was performed for the purpose of (P) below 4222'.

The injection survey is approved since it indicates that all of the injection fluid is confined to the formations below 4222' feet at this time.

The injection survey is not approved due to the following reasons: (specify)

Note: _____

M.I.T. DATA SHEET

Well: " WNF - I " 32 Date: 11/25/91 Time: 1330
 Observed Rate: 225 B/D Meter Rate: meter broken B/D
 Injection Pressure: 1370 psi MASP: _____ psi Pick-up Depth: 4384' feet
 Initial Annulus Pressure: _____ psi Pressure After Bleed-off: 0 psi
 Casing Vented During Test (Y/N): Y

SPINNER COUNTS

DEPTH	COUNTS	RATE (B/D)	DEPTH	COUNTS	RATE (B/D)	COMMENTS:

R. A. T. CASING RATE CHECKS

INTERVAL	TIME (sec.)	RATE (B/D)	COMMENTS:

R. A. T. TUBING RATE CHECKS

INTERVAL	TIME (sec.)	RATE (B/D)	COMMENTS:

Background Log: From 4280' to 3900' Comments: _____

TOP PERFORATION CHECK

Top perforation at: 4159' Wait at: _____ for _____ seconds Beads: (Y/N) _____
 Casing shoe at: 4235' WSO holes/CP at: 4222'

Log	Direction	From	To	Slug at	COMMENTS:
Log	<u>up</u>	<u>4236'</u>	<u>4180'</u>	<u>4226'</u>	
Log	<u>up</u>	<u>4256'</u>	<u>4144'</u>	<u>4231'</u>	
Log	<u>u</u>	<u>4262'</u>	<u>4108'</u>	<u>4244'</u>	
Log	<u>u</u>	<u>4282'</u>	<u>4094'</u>	<u>4264'</u>	

PACKER CHECK

Packer at: 4061' Wait at: 4070' for 60 seconds
 Tubing tail at: 4092' Tubing size: _____ 2nd packer at: _____ Mandrel: _____

Log	Direction	From	To	Slug at	COMMENTS:
Log	<u>down</u>	<u>4070'</u>	<u>4160'</u>	<u>4106'</u>	
Log	<u>up</u>	<u>4160'</u>	<u>3960'</u>	<u>4104'</u>	
Log	<u>u</u>	<u>4138'</u>	<u>3960'</u>	<u>4114'</u>	
Log					

Survey Company: Flow log Wireline Technician: Jim Sturgess
 Remarks: _____

Report on Operations

Steve Lang, Agent
XTRA ENERGY CORP.
P. O. Box 9
LONG BEACH CA 90801-0009

Long Beach Calif.
November 12, 1991

Your operations at well "WNF-I" 32, API No. 037-21729,
Sec. 20, T. 4S, R. 13W, S.B. B. & M. Wilmington
Field, in Los Angeles County,
were witnessed on 9-27-91 by D. Dudak, Engineer, representative of
the supervisor, was present from 1130 to 1230.
There were also present Jim Sturgis, Mateo Vasquez
Present condition of well: 13 3/8" cem 624'; 8 5/8" cem 4235', perf 4222' WSO;
6 5/8" Id 4144'-4560', perf 4159'-4555'. TD 4681'.

The operations were performed for the purpose of demonstrating that all of the injection
fluid is confined to the formations below 4222'.

DECISION: APPROVED.

DEFICIENCIES TO BE CORRECTED: Packer leaking.

CONTRACTOR: Flolog

DD:df
cc: Update

M. G. MEFFERD
State Oil and Gas Supervisor
By Richard E. Cabely
Deputy Supervisor
for R. K. Baker

OK R 11/91

No. T 191-1067

INJECTION (M.I.T.) SURVEY

Operator: XIRA ENERGY CORPORATION Well Designation: "WNF-I" 32
Sec. 20, T. 45, R. 13W, SB B.&M. A.P.I. No.: 037-21729 Field: Wilmington
County: Los Angeles Witnessed on (date): 9/27/91 D. Dudak
representative of the Supervisor, was present from 1130 to 1230
Also present: Jim Sturgis, Mateo Vasquez

Casing record of well: 13 3/8" cem 624'; 8 5/8" cem 4235', perf 4222' WSD;
6 5/8" id 4144'-4560', perf 4159'-4555', TD 4681'.

The injection survey was performed for the purpose of (P) 4222'

The injection survey is approved since it indicates that all of the injection fluid is confined to the formations below 4222' feet at this time.

The injection survey is not approved due to the following reasons: (specify)

Deficiency To be corrected:
Packer Leaking

Note: No Deficiencies of any kind

FLOWG Contractor

M.I.T. DATA SHEET

Well: "WNF-I" 32 Date: 9/27/91 Time: 1200
 Observed Rate: 250 B/D Meter Rate: 288 B/D
 Injection Pressure: 1500 psi MASP: 1522 psi Pick-up Depth: 4394 feet
 Initial Annulus Pressure: 600 psi Pressure After Bleed-off: 0 psi
 Casing Vented During Test (Y/N): Y

SPINNER COUNTS

DEPTH	COUNTS	RATE (B/D)	DEPTH	COUNTS	RATE (B/D)	COMMENTS:

R. A. T. CASING RATE CHECKS

INTERVAL	TIME (sec.)	RATE (B/D)	COMMENTS:
		<u>250</u>	

R. A. T. TUBING RATE CHECKS

INTERVAL	TIME (sec.)	RATE (B/D)	COMMENTS:
		<u>240</u>	

Background Log: From 4280' to 4100' Comments: Flat - ok

~~SHOE~~ TOP PERFORATION CHECK

Top perforation at: 4237' Wait at: 4210' for 5 MIN seconds Beads: (Y/N) N
 Casing shoe at: 4235' WSO holes/CP at: _____

Log	Direction	From	To	slug at	COMMENTS:
Log	<u>down</u>	<u>4220'</u>	<u>4235'</u>	<u>4225'</u>	
Log	<u>up</u>	<u>4230'</u>	<u>4200'</u>	<u>going down</u>	
Log	<u>up</u>	<u>4230'</u>	<u>4200'</u>		
Log					

PACKER CHECK

Packer at: 4125' Wait at: 4120' for 60 seconds
 Tubing tail at: 4168' Tubing size: 2 7/8 2nd packer at: — Mandrel: _____

Log	Direction	From	To	slug at	COMMENTS:
Log	<u>down</u>	<u>4160'</u>	<u>4215'</u>	<u>4181'</u>	
Log	<u>up</u>	<u>4215'</u>	<u>4000'</u>	<u>4180'</u>	* Slt packer leak w/ CSG oper
Log	<u>up</u>	<u>4260'</u>	<u>4010'</u>	<u>4230'</u>	
Log					

Survey Company: Flo Log Wireline Technician: Jim Sturgis, Mateo Vaisquez
 Remarks: _____

DIVISION OF OIL AND GAS

Report on Operations

WATERFLOOD PROJECT

Agnes T. List, Agent-XTRA ENERGY CORPORATION
C T CORPORATION SYSTEM
800 South Figueroa Street, Suite 1000
Los Angeles, CA 90017

Long Beach, Calif.
June 22, 1987

Your operations at well "WNF-I" 32, API No. 037-21729
Sec. 20, T4S, R. 13W, S.B.B. & M. Wilmington Field, in Los Angeles County,
were witnessed on 4-30-87. M. Saw, Engineer, representative of
the supervisor, was present from 1510 to 1520. There were also present G. John,
Operator

Present condition of well: 13-3/8" cem 624'; 8-5/8" cem 4235', perf 4222' WSO; 6-5/8" ld
4144'-4560', perf 4159'-4555'. TD 4681'.

The operations were performed for the purpose of demonstrating that all of the injection fluid
is confined to the formations below 4222'.

DECISION: APPROVED.

NOTE: DEFICIENCIES CORRECTED
NONE

DEFICIENCIES TO BE CORRECTED
NONE

UNCORRECTABLE DEFICIENCIES
NONE

CONTRACTOR: Flo Log, Inc.

MS:mh

cc: Update

M. G. MEFFERD
State Oil and Gas Supervisor
M. G. Mefferd
Deputy Supervisor
for V. F. Gaede

DIVISION OF OIL AND GAS
WATER SHUTOFF TEST

522-87
No. T 187-353

Operator Xtra Energy Corp.
Well designation "WNP-I" 32 Sec. 20, T. 4S, R. 13W, 5B B.&M.
Field Wilmington County LA was tested for water
shutoff on 4/30/87. (Name) M. Sam, representative of the supervisor, was
present from 1510 to 1520. Also present were G. John, Opr.

Casing record of well: 13 3/8 cm 624'; 8 5/8 cm 4235', perf 4222' WSO;
6 5/8" id 4144' - 4500', perf 4159' - 4555', TD 4681'

The operations were performed for the purpose of (P) ~~4235'~~ 4222'

- The _____ " shutoff at _____ ' is approved.
- The seal between the _____ " and _____ " casings is approved.
- The operations are approved as indicating that all of the injection fluid is confined to the formations below 4205' at this time.
4222'

Hole size: _____ " fr. _____ ' to _____ ' ; _____ " to _____ ' ; & _____ " to _____ '.

Casing			Cemented			Top of Fill		Sqd. Away	Final Press	Test psi/min. Perfs.
Size	Wt.	Top Bottom	Date	MO-Depth	Volume	Annulus	Casing			

Depth or interval tested _____
The hole was open to _____ ' for test.

FORMATION TEST:
Packer(s) _____ ' & _____ ' Tail _____ ' Bean size _____ " Cushion _____
IHP _____ IFP _____ FFP _____ FHP _____
Blow _____
Open for test _____ Hr. _____ min. Fluid entry _____

BAILING TEST:
The hole fluid was bailed to _____ ' , at _____ on _____ 19 _____.
The hole fluid was found at _____ ' , at _____ on _____ 19 _____.
(time)

PRODUCTION TEST:
Gauge/meter reading _____ on _____ 19 ____, at _____ pump depth _____ ' Engr. _____
Gauge/meter reading _____ on _____ 19 ____, at _____ Engr. _____
Fluid level _____ ' surveyed on _____ 19 ____, reviewed (witnessed) by _____
Total fluid produced, Bbls. _____ Net oil _____ Water _____
Rate: _____ B/D oil, _____ B/D water, _____ % water cut

INJECTION SURVEY:
RA/Spinner/Temperature survey run at 240 B/D & 1550 psi on 4/30 1987,
fluid confined below 4222' (Packer depth 4125')
Log valve opened. Shoe & packer checked OK.

DEFICIENCIES NOTED AND CORRECTED:

None

DEFICIENCIES NOTED AND TO BE CORRECTED:

None

UNCORRECTABLE DEFICIENCIES:

None

CONTRACTOR:

Flu-log Inc.

DIVISION OF OIL AND GAS
CHECK LIST - RECORDS RECEIVED AND WELL STATUS

Company XTRA ENERGY CORP. Well No. "WNE-1" 32
 API No. 037-21729 Sec. 20, T. 4S, R. 13W, S.B. B.&M.
 County LOS ANGELES Field WILMINGTON

<u>RECORDS RECEIVED</u>	<u>DATE</u>	
Well Summary (Form OGI00)		
History (Form OGI03)	<u>8-19-85</u>	<u>2</u>
Core Record (Form OGI01)		
Directional Survey		
Sidewall Samples		
Other		
Date final records received		
Electric logs:		

<u>STATUS</u>	<u>STATUS</u>
Producing - Oil	Water Disposal
Idle - Oil	Waterflood <input checked="" type="checkbox"/>
Abandoned - Oil	Steamflood
Drilling - Idle	Fire Flood
Abandoned - Dry Hole	Air Injection
Producing - Gas	Gas Injection
Idle - Gas	CO2 Injection <input checked="" type="checkbox"/>
Abandoned - Gas	LPG Injection
Gas-Open to Oil Zone	Observation
Waterflood Source	
DATE <u>8-22-85</u> "E" well	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
RECOMPLETED	
REMARKS	

2/12/85

- ENGINEER'S CHECK LIST**
- Summary, History, & Core record (dupl.)
 - Electric Log
 - Operator's Name
 - Signature
 - Well Designation
 - Location
 - Elevation
 - Notices
 - "T" Reports
 - Casing Record
 - Plugs
 - Surface Inspection
 - Production
 - E Well on Prod. Dir. Sur.

- CLERICAL CHECK LIST**
- Location change (F-OGD165)
 - Elevation change (F-OGD165)
 - Form OGD121
 - Form OGI59 (Final Letter)
 - Form OGD150b (Release of Bond)
 - Duplicate logs to archives
 - Notice of Records due (F-OGD170)
 - EDP (F-OGD42A-1, 2)

CO2/WATERFLOOD CONVERTED FROM OIL.

UPDATE CENTER 8/29/85

RECORDS NOT APPROVED
Reason: _____

RECORDS APPROVED 8-22-85 *MR*

RELEASE BOND _____

Date Eligible _____

(Use date last needed records were received.)

MAP AND MAP BOOK 128 *8/21/85*

CHECK 1 - RECORDS RECEIVED AND WELL STATUS

Well No. _____

API No. _____ Sec. _____, T. _____, R. _____, B.&M. _____

<u>WORK PERFORMED</u>	<u>STATUS</u>	<u>DATE</u>
Drill _____ Redrill _____ Deepen _____	Producing _____ "E" well Yes <input type="checkbox"/> No <input type="checkbox"/>	
Plug _____ Alter Casing _____	Recompleted Producing _____	
Waterflood _____ Water Disposal _____	Waterflood _____	
Abandon _____	Water Disposal _____	
Other _____	Abandoned _____	
	Other _____	
	MAP AND BOOK _____ Engineer _____	

RECORDS FILED AND DATE Clerk _____

Summary _____

Log and Core _____

History _____

E-log _____

Directional Survey _____

Other _____

RECORDS & REQUIREMENTS CHECKED Engineer _____

(Check records for signature and correct name of operator or well, section, township, range, and field.)

Location _____ Notice states _____

Surface Inspection _____

Data Needed _____

Request Records _____ OGD170 _____

Correct records _____ OGD165 _____

(Specify)

EDP _____ (OGD42A-1, 2) _____

Elevation _____ Notice states _____

CARDS _____

BOND _____

Hold _____ Reason _____

Release _____ Date Eligible _____ OGD150 _____

End premium year _____

Release requested _____

Bond superseded _____ (Check One)

Well abandoned _____

Production Reports _____

Environmental Inspection _____ Engineer _____

FINAL LETTER _____ OGD159 _____

and _____

File cleared _____ OGD121 _____

(If production reports not received, make notation and inform Senior Stenographer when received.)

DIVISION OF OIL AND GAS

Notice of Intention to Rework Well

This notice and indemnity or cash bond shall be filed, and approval given, before rework begins. If operations have not commenced within one year of receipt of the notice, this notice will be considered cancelled.

FOR DIVISION USE ONLY		
BOND	FORMS	
	OGD 114	OGD 121
BB	2/18/85	3/18/85

DIVISION OF OIL AND GAS

In compliance with Section 3203, Division 3, Public Resources Code, notice is hereby given that it is our intention to rework well "WNF-I" 32 (Well designation), API No. 037-21729
 Sec. 20 ~~19~~, T. 4S, R. 13W, SB B. & M., Wilmington Field, Los Angeles County.

The present condition of the well is as follows:

- Total depth 4681'
- Complete casing record, including plugs and perforations
 13-3/8", 48#, H-40 to 624'
 8-5/8", 32#, K-55 to 4235'
 6-5/8", 24#, K-55 4144' 50 4560'
 Perf'd 4159' - 4237', 6R 2" to 40M, 24" C slots
 4247' - 4555', 24R, 2" to 40 M, 6" C slots
- Present producing zone name Ranger; Zone in which well is to be recompleted Ranger
- Present zone pressure 800 ±; New zone pressure 1350 psi
- Last produced 3-5-85 (Date) 17 (Oil, B/D) 7 (Water, B/D) N/A (Gas, Mcl/D)
 (or)
 Last injected _____ (Date) _____ (Water, B/D) _____ (Gas, Mcl/D) _____ (Surface pressure, psig)

The proposed work is as follows:

Convert from producing well to WAG CO₂ - H₂O injection well

- Pull production equipment.
- Scrape 8-5/8" casing
- Clean out to bottom, 4560'
- Set sand plug 4400' ±
- Run injection equipment w/packer set at 4115' ±
- Place on H₂O injection.
- Run spinner after 3 days

It is understood that if changes in this plan become necessary, we are to notify you immediately.

Address 2501 Cherry Avenue, Suite 270 (Street)
Signal Hill, CA 90806 (City) (State) (Zip)
 Telephone Number (213) 424-8549

Xtra Energy Corporation (Name of Operator)
 By John D. Carmichael (Print Name)
John D. Carmichael (Signature) 3/15/85 (Date)

RECEIVED
MAR 18 2 03 PM '85
DIV. OF OIL AND GAS
LONG BEACH, CA.

STATE OF CALIFORNIA
DEPARTMENT OF CONSERVATION
DIVISION OF OIL AND GAS

REPORT ON PROPOSED CHANGE OF WELL DESIGNATION

Long Beach, California

October 17, 1983

John D. Carmichael, Agent
XTRA ENERGY CORPORATION
2501 Cherry Avenue, Suite 270
Signal Hill, CA 90806

Your request, dated September 15, 1983, proposing to change the designation of
see
well(s) in Sec. below, T. 4S, R. 13W, S.B. B. & M., Wilmington field,
Los Angeles County, District No. 1, has been received.

The proposed change in designation, in accordance with Section 3203, Public Resources Code, is authorized
as follows: Sec. 19-4S-13W

OLD	NEW	API	OLD	NEW	API
DESIGN.	DESIGN.	037-	DESIGN.	DESIGN.	037-
8	"WNF-I" 8	22620	"American Can" 1	"WNF-I" 12	21433
10	"WNF-I" 10	22611	"	2 "WNF-I" 15	21644
18	"WNF-I" 18	22853	"	3 "WNF-I" 3	21768
19	"WNF-I" 19	22846	"Dasco Unit" 1	"WNF-I" 1	21671
20	"WNF-I" 20	22652	I-14	"WNF-I" 11	22603
23	"WNF-I" 23	22672	"Purex Unit" 1	"WNF-I" 9	21669
26	"WNF-I" 26	22666-01	"	2 "WNF-I" 5	21753
27	"WNF-I" 27	22673	"	3 "WNF-I" 4	21754
28	"WNF-I" 28	22674	"Sanitation Unit" 1	"WNF-I" 21	21445
29	"WNF-I" 29	22648	<u>Sec. 20-4S-13W</u>		
43	"WNF-I" 43	22682	31	"WNF-I" 31	22767
<u>Sec. 20-4S-13W</u>			36	"WNF-I" 36	22769
42	"WNF-I" 42	22689	33	"WNF-I" 33	22768
44	"WNF-I" 44	22820	37	"WNF-I" 37	22796
			34	"WNF-I" 34	22787
			38	"WNF-I" 38	22752
			35	"WNF-I" 35	22795
			39	"WNF-I" 39	22754

M. G. MEFFERD, State Oil and Gas Supervisor

By Richard C. Gaeede
FOR V. F. GAEDE, Deputy Supervisor

EDP
Update
Conservation Committee
Long Beach Dept. of Oil Properties
OGD 157 (3-79-DWRR-1M)

Sec. 20-4S-13W

<u>OLD.</u>	<u>NEW</u>	<u>API</u>
		<u>037-</u>
"Shell Unit" 1	"WNF-I" 32	21729
"Shell Unit" 2	"WNF-I" 40	21769

Sec. 29-4S-13W

"Lomita Unit" 1	"WNF-I" 67	22487
49	"WNF-I" 49	22886
50	"WNF-I" 50	22884
51	"WNF-I" 51	22885
53	"WNF-I" 53	22874
54	"WNF-I" 54	22871
56	"WNF-I" 56	22865
57	"WNF-I" 57	22815

STATE OF CALIFORNIA
DEPARTMENT OF CONSERVATION
DIVISION OF OIL AND GAS

REPORT ON PROPOSED CHANGE OF WELL DESIGNATION

Long Beach, California

July 23, 1979

Mr. Morris S. Frankel, Agent
Argo Petroleum Corp.
10880 Wilshire Blvd., Suite 1003
Los Angeles, CA 90024

DEAR SIR:

Your request dated May 30, 1979, signed by E. Lyons, relative to change in designation of well(s) in Sec. 19, 20, T. 4S, R. 13W, SB B. & M., Wilmington field, Los Angeles County, District No. 1, has been received;

and in accordance with Section 3203, Public Resources Code, reading in part as follows:

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

the proposed change in designation is hereby authorized as follows:

<u>Sec.</u>	<u>Old Designation</u>	<u>API No.</u>	<u>New Designation</u>
19-4S-13W SBB&M	WAAP 3	037-21664	American Can 2
" "	WAAP 9	037-21768	American Can 3
" "	American Can 2	037-21445	Sanitation Unit 1
" "	WAAP 4	037-21669	Purex Unit 1
" "	WAAP 7	037-21753	Purex Unit 2
" "	WAAP 8	037-21754	Purex Unit 3
" "	WAAP 6	037-21671	Dasco Unit 1
20-4S-13W	WAAP 5	037-21729	Shell Unit 1
" "	WAAP 10	037-21769	Shell Unit 2

MBA:sc

cc: Update Center
EDP Update
Conservation Committee
Dept. of Oil Properties L.B.

M. G. MEFFERD
~~JOHN F. MATTHEWS, JR.~~
State Oil and Gas Supervisor

By M B Albright
M. B. Albright, Deputy Supervisor

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

REPORT OF CORRECTION OR CANCELLATION

Long Beach California

Mr. M. S. Frankel, Agent
ARGO PETROLEUM CORP.
10880 Wilshire Blvd.
Los Angeles, Ca. 90024

February 3, 1978

In accordance with our review of Map 128 we found

the following change pertaining to your well WAAP 10 ⁵ (037-21729) ~~(037-21769)~~,
Wilmington field, _____ County,
Sec. 19, T. 4S, R. 13W, S.B. B. & M., is being made in our records:

The corrected location is Sec. 20-4S-13W S.B.

The corrected elevation is _____

Report No. _____, dated _____

corrected as follows: _____

CORRECTIONS MADE AS FOLLOWS:		BY WHOM
FORM 114		
" 115		
" 121	✓	ag
" 146		
CARDS		
PRODUCTION RECORDS		
WELL RECORDS (FOLDERS	✓	ag
(REPORTS	✓	ag
FIELD MAPS <u>128</u>		
MAP BOOK <u>3/13/78</u>		ag

Your notice to _____ dated _____
(Drill, abandon, etc.)
and our report No. P _____, issued in answer thereto, are hereby cancelled
inasmuch as the work will not be done. If you have a drilling bond on file covering
this notice it will be returned. No request for such return is necessary.

Other: _____

GWS:eb

cc:EDP
Update

Blanket Bond

M. G. MEFFERD
State Oil and Gas Supervisor

By M. B. Albright
Deputy Supervisor

DIVISION OF OIL AND GAS
CHECK OFF - RECORDS RECEIVED AND WELL STATUS

Company ARGO Petroleum Well No. WAP 5
 API No. 037-21729 Sec. 19, T. 4S, R. 13W S.B. B. & M.
 County A- Field Wilmington

RECORDS RECEIVED	DATE
Well Summary (Form OG100) ✓	1-26-77
History (Form OG103) ✓	1-26-77
Core Record (Form OG101)	
Directional Survey ✓	1-26-77 600' - 4581'
Sidewall Samples	
Other	
Date final records received	
Electric logs: 1-26-77	
Dual Induction - data log 620' - 4674'	
Caliper log 4190' - 4558'	

STATUS	STATUS
Producing - Oil ✓	Water Disposal _____
Idle - Oil _____	Water Flood _____
Abandoned - Oil _____	Steam Flood _____
Drilling - Idle _____	Fire Flood _____
Abandoned - Dry Hole _____	Air Injection _____
Producing - Gas _____	Gas Injection _____
Idle - Gas _____	CO2 Injection _____
Abandoned - Gas _____	LPG Injection _____
Gas-Open to Oil Zone _____	Observation _____
Water Flood Source _____	
DATE <u>9-15-76</u>	
RECOMPLETED _____	
REMARKS _____	

ENGINEER'S CHECK LIST

- Summary, History, & Core record (dupl.) ✓
- Electric Log ✓
- Operator's Name _____
- Signature _____
- Well Designation _____
- Location _____
- Elevation _____
- Notices _____
- "T" Reports _____
- Casing Record _____
- Plugs _____
- Surface Inspection _____
- Production _____
- E Well on Prod. Dir. Sur. ✓

CLERICAL CHECK LIST

- Location change (F-OGD165) _____
 - Elevation change (F-OGD165) _____
 - Form OGD121 _____
 - Form OGI59 (Final Letter) _____
 - Form OGD150b (Release of Bond) _____
 - Duplicate logs to archives _____
 - Notice of Records due (F-OGD170) _____
- Sent to L. B. Blue 2-18-77*

RECORDS NOT APPROVED
 Reason: _____

RECORDS APPROVED VS
 RELEASE BOND _____
 Date Eligible _____
 (Use date last needed records were received.)
 MAP AND MAP BOOK _____
rec 2/15/77 #120
sec. 19

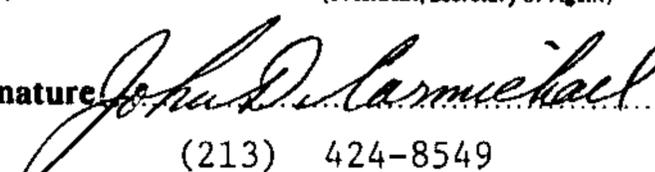
F

SUBMIT IN DUPLICATE
RESOURCES AGENCY OF CALIFORNIA
DEPARTMENT OF CONSERVATION
DIVISION OF OIL AND GAS

History of Oil or Gas Well

Operator..... XTRA ENERGY CORPORATION..... Field..... WILMINGTON..... County..... LOS ANGELES
Well..... WNF-I # 32..... Sec. 20, T 4S, R 13W, S.B.B. & M.
A.P.I. No. 037-21729..... Name JOHN D. CARMICHAEL..... Title SENIOR VICE PRES.
Date..... AUGUST 6, 1985..... (Person submitting report) (President, Secretary or Agent)

Signature



P. O. BOX 9, LONG BEACH, CA 90801

(213) 424-8549

(Address)

(Telephone Number)

History must be complete in all detail. Use this form to report all operations during drilling and testing of the well or during redrilling or altering the casing, plugging, or abandonment with the dates thereof. Include such items as hole size, formation test details, amounts of cement used, top and bottom of plugs, perforation details, sidetracked junk, bailing tests and initial production data.

Date

CONVERSION TO INJECTION

3-12-85

W-32 - M.I.R.U, POH & LD 135 - 3/4" rods, RIH with sinker bar, found bottom at 4575', installed BOP, POH with 2-7/8" tbg, RIH with csg scraper to liner top @ 4172', POH with csg scraper, RIH with 45 degree collar to 4300', dumped 34 sx 16-20 gravel down tbg, waited 1 hour, found top of sand at 4327', cleaned out sand to 4400', POH & layed 139 jts 2-7/8" tbg, RIH with bell collar, Otis XN nipple, 1 jt 2-7/8" tbg, tail coated inside and out, 8-5/8" x 32# Otis Perma-Latch Packer, 130 jts internally coated 2-7/8" tbg, Hydrotested tbg to 5000 psi, landed tbg with packer set at 4125.59, bottom of tail at 4162', mxd 240 bbls of FW with 50 gallons of inhibitor, dsplsd annulus with pickling fluid, set Otis packer with 12,000# wt., removed BOP, installed XT, tstd csg and packer with 1000 psi, OK., pumped 350 gallons aeromatic solvent down tbg, closed well in, RD, moved off.

COOPER & BRAIN, 41 RIG HOURS.

DIV. OF OIL AND GAS
LONG BEACH, CA.

AUG 19 1 38 PM '85

RECEIVED

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

WELL SUMMARY REPORT
SUBMIT IN DUPLICATE

Operator ARGO PETROLEUM CORPORATION, Well No. W.A.A.P. #5, API No. 037-21729,

Sec. 20 ~~19~~, T. 4S, R. 13W, S.B. B. & M., Wilmington Field, Los Angeles County.

Location 984.44' Easterly & 162' north @ right angles from NE corner
(Give surface location from property or section corner, or street center line and/or lambert coordinates)

Main St & AT & SF RR right of way Elevation of ground above sea level 40 feet.

All depth measurements taken from top of KB which is 9 feet above ground.
(Derrick Floor, Rotary Table or Kelly Bushing)

In compliance with Sec. 3215, Division 3 of the Public Resources Code, the information given herewith is a complete and correct record of the present condition of the well and all work done thereon, so far as can be determined from all available records.

Date January 11, 1977

Signed *C. Benham*
Title Exec. Vice-President

Jack Cook
(Engineer or Geologist)

	GEOLOGICAL MARKERS	DEPTH
Commenced drilling <u>August 4, 1976</u>		
Completed drilling <u>August 25, 1976</u>		
Total depth (1st hole) <u>4681</u> (2nd) _____ (3rd) _____		
Present effective depth <u>4560</u>		
Junk _____		

Commenced producing 9/15/76 ~~XXXXXXXXXX~~ flowing gas lift/pumping Name of producing zone Ranger
(Date) (Cross out unnecessary words)

	Clean Oil bbl. per day	Gravity Clean Oil	Per Cent Water including emulsion	Gas Mcf. per day	Tubing Pressure	Casing Pressure
Initial production	0	13.4	100.0	----	50	48
Production after 30 days	28	13.4	60.0	----	50	50

CASING RECORD (Present Hole)

Size of Casing (A. P. I.)	Depth of Shoe	Top of Casing	Weight of Casing	Grade and Type of Casing	New or Second Hand	Size of Hole Drilled	Numbers of Sacks or Cubic Feet of Cement	Depth of Cementing if through perforations
13 3/8"	624	0	48#	H-40 Buttress Buttress	N	17 1/2"	700 cu. ft.	
8 5/8"	4235	0	32#	K-55 & 8R	N	11"	1046 cu. ft.	
6 5/8"	4560	4144	24#	K-55 SFJ	N	15"	GP	

PERFORATED CASING
(Size, top, bottom, perforated intervals, size and spacing of perforation and method.)

WSO @ 4222' GP ports @ 4150' 15' over
4247'-4555' 24R, 2"x40m, 6" c slots 11 3/4" W, 11
4159'-4237' 6R, 2"x40M, 24" c slots 11 3/4" W, 11

Was the well directionally drilled? Yes If yes, show coordinates at total depth 2099.81'S & 1330.88'E
Electrical log depths 4680-620 Other surveys Caliper, BHP

DIV. OF OIL AND GAS
LONG BEACH, CA.

JAN 25 11 37 AM '77

RECEIVED

1977 JAN 25 11 37 AM

RESOURCES AGENCY OF CALIFORNIA
DEPARTMENT OF CONSERVATION

DIVISION OF OIL AND GAS

History of Oil or Gas Well

OPERATOR ARGO PETROLEUM CORPORATION FIELD Wilmington
Well No. W.A.A.P. #5, Sec. ²⁰19-, T. 4S R. 13W S.B. B. & M.
Date January 11, 1977 Signed *C. B. B. B.*
940 East Santa Clara
Ventura, CA. 93001 (805) 648-2514 Title Exec. Vice-President
(Address) (Telephone Number) (President, Secretary or Agent)

History must be complete in all detail. Use this form to report all operations during drilling and testing of the well or during redrilling or altering the casing, plugging, or abandonment with the dates thereof. Include such items as hole size, formation test details, amounts of cement used, top and bottom of plugs, perforation details, sidetracked junk, bailing tests and initial production data.

Date	
<u>1976</u>	
8-4	MIRU Atlantic Rig #3. Spudded @ 3:00PM. Circ & cond mud. Drilled 17½" hole to 200'.
8-5	Drilled to 632'. Circ & cond mud. POH. Rigged up to ran csg. Ran 16 jts, 13 3/8", 48#, H-40 Buttress csg w/B&W guide shoe at 624' and baffle at 584'. Dowell pumped 100cu.ft. water ahead followed by 600 cu. ft. class "G" cmt premixed 1:1 POZ + 4% Gel + 3% CaCl2 followed by 100 cu. ft. class "G" neat cmt treated w/3% CaCl2. Bumped plug w/1000 psi. CIP @ 5:45PM. Had 30 cu. ft. cmt returns.
8-6	Cut off conductor & surface pipe. Installed BOP. Tested blind rams 1000#. Made up 11" bit. Ran into float. BOPE test approved pending repair of electric station controls. RIH w/11" bit. Test BOP. Drill out float & cmt shoe. Drilled 11" hole to 694'. Circ & cond mud. POH. Picked up DD. RIH.
8-7	DD to 1214'.
8-8	DD to 1307'. Circ clean & POH. Laid down DD tools. Picked up DA. Drilled to 1457'. POH. Made up DD. RIH. DD to 1547'.
8-9	DD to 1700'. POH. Laid down DD. Picked up DA. RIH. Drilled to 2045'. POH.
8-10	RIH. Drilled to 2520'.
8-11	Drilled to 2756'.
8-12	Drilled to 3137'.
8-13	Drilled to 3451'.
8-14	Drilled to 3820'.

RESOURCES AGENCY OF CALIFORNIA
DEPARTMENT OF CONSERVATION

DIVISION OF OIL AND GAS

History of Oil or Gas Well

OPERATOR ARGO PETROLEUM CORPORATION FIELD Wilmington
Well No. W.A.A.P. #5, Sec. ²⁰19, T. 4S R. 13W S.B.B. & M.
Date January 11, 1977 Signed *C. Barber*
940 East Santa Clara
Ventura, CA. 93001 (805) 648-2514 Title Exec. Vice-President
(Address) (Telephone Number) (President, Secretary or Agent)

History must be complete in all detail. Use this form to report all operations during drilling and testing of the well or during redrilling or altering the casing, plugging, or abandonment with the dates thereof. Include such items as hole size, formation test details, amounts of cement used, top and bottom of plugs, perforation details, sidetracked junk, bailing tests and initial production data.

Date	
<u>1976</u>	
8-15	Drilled to 4070'.
8-16	Drilled to 4200'. POH. RIH w/7 7/8" bit. Drilled to 4314'.
8-17	Drilled to 4681'. Circ & cond for loggers. POH.
8-18	POH. Rigged up loggers. Ran Schlumberger DIL log 4681'-620'. Rigged down loggers. Picked up 11" bit. RIH. ✓ Lower 11" shoulder from 4200'-4235'. Circ & cond to run csg. Ran 3777', 32#, K-55, 8 5/8" Buttress csg (93 jts), & 419', 32#, 8R, K-55 (9 jts) equip w/B&W guide shoe @ 4235' & float collar @ 4174' & 3 Creighton casing adjusters @ 3239', 1259', 414'. Dowell pumped in 100 cu. ft. water ahead. Mixed and pumped in 931 cu. ft. class "G" cmt premixed 1:1 POZ w/4% Gel + 2% CaCl ₂ followed by 115 cu. ft neat class "G" cmt treated w/2% CaCl ₂ . Disp w/1500 cu. ft. mud. CIP @ 7:50PM. Bump plug @ 1000 psi. Full circ. throughout job. WOC.
8-19	WOC. Cut off csg & weld on head. Installed & flanged up BOPE. Landed csg 20,000#. Close & test rams @ 1000# 15 min OK. Made up 7 7/8" bit w/csg scraper. RIH. Circ & pretreat mud. Drill out baffle & cmt from 4197' - 4228'. Circ & cond mud for WSO. POH.
8-20	Made up Lynes WSO test tools. RIH. Set pkr @ 4151' w/tail @ 4179'. Shot 4 - 1/2" holes @ 4222'. Opened tester @ 2:55AM for 1 hour. Had light blow for 3 min then dead remainder of test. Pulled tester @ 3:55AM. Had 25' fluid rise. WSO approved by DOG. RIH. Drilled out shoe. Circ & ream to btm. POH. RIH w/open end drill pipe to 4679'. Halliburton pumped 20 cu. ft. water ahead. Mixed and pumped in 60 cu. ft. neat class "G" cmt premixed w/2% CaCl ₂ . Disp w/7 cu. ft. water + 345 cu. ft. mud. CIP @ 7:15PM. POH. RIH w/DA.

RESOURCES AGENCY OF CALIFORNIA
DEPARTMENT OF CONSERVATION

DIVISION OF OIL AND GAS

History of Oil or Gas Well

OPERATOR ARGO PETROLEUM CORPORATION FIELD Wilmington
Well No. W.A.A.P. #5, Sec. ²⁰19, T. 4S, R. 13W, S.B. B. & M.
Date January 11, 1977 Signed *C. Rosenber*
940 East Santa Clara
Ventura, CA. 93001 (805) 648-2514 Title Exec. Vice-President
(Address) (Telephone Number) (President, Secretary or Agent)

History must be complete in all detail. Use this form to report all operations during drilling and testing of the well or during redrilling or altering the casing, plugging, or abandonment with the dates thereof. Include such items as hole size, formation test details, amounts of cement used, top and bottom of plugs, perforation details, sidetracked junk, bailing tests and initial production data.

Date	
<u>1976</u>	
8-21	CO cmt 4550-4560. Circ. Pull up to shoe. Run in and change hole over to XC Polymer. POH. Made up Tristate 15" HO. RIH. Cut 15" shoulder @ 4228'. Opened 7 7/8" hole to 15" 4228-4477'.
8-22	Opened 7 7/8" hole to 15" 4477-4560'. POH.
8-23	Rigged up Welex. Caliper log stopped @ 4412'. POH. Made up HO. RIH. Reamed from 4412'-4560'. Circ. Pulled up to shoe. RIH. Reamed to TD(4560'). Circ hole clean. POH. Rigged up loggers. Ran Welex Caliper log 4560-4228'. POH. Ran 11 jts, 425', 6 5/8", 24#, K-55 SFJ liner on GP tools. Gravel packed liner w/330 sx gravel. Backscuttled 3 sx (calculated volume 330 sx). Released liner. Chg over to lse water. POH. Liner hung @ 4560', top @ 4144'.
8-24	Laid down gravel pack tools. Laid down tbg stringer. RIH w/ B&W lead seal adaptor and drive on liner top. POH to run wash tool. RIH. Tag bottom @ 4560'. Wash liner. POH. Laid down tbg and wash tool.
8-25	Re-ran gravel pack tools. Open port collar and circ for 1 min. Pressure increased to 900 psi, held at 400 psi. POH. Flanged up & installed donut on wellhead. Rig released @ 8:00PM.
8-26	WO production rig.
8-27	MIRU Pool production rig. Ran 142 jts, 2 7/8" tbg and landed @ 4125'. Made 11 swab runs. Swabbed fluid to 1600'.
8-28	Swabbed fluid level to 2600'. Rig released at 2:30PM. Installed Otis BHP bombs.
8-29	BHP Survey.
8-30	" "
8-31	" "

DIVISION OF OIL AND GAS

History of Oil or Gas Well

OPERATOR ARGO PETROLEUM CORPORATION FIELD Wilmington

Well No. W.A.A.P. #5, Sec. ²⁰~~19~~, T. 46, R. 13W, S.B. B. & M.

Date January 11, 1977 Signed *C. Basen*

940 East Santa Clara
Ventura, CA. 93001 (805) 648-2514 Title Exec. Vice-President
 (Address) (Telephone Number) (President, Secretary or Agent)

History must be complete in all detail. Use this form to report all operations during drilling and testing of the well or during redrilling or altering the casing, plugging, or abandonment with the dates thereof. Include such items as hole size, formation test details, amounts of cement used, top and bottom of plugs, perforation details, sidetracked junk, bailing tests and initial production data.

Date	
<u>1976</u>	
9-1	BHP Survey.
9-2	Attempted to pull BHP bombs. Wireline parted at rope socket. Attempted to fish with Otis.
9-3	MIRU Pool production hoist.
9-4	Pulled tubing. Attempted to run Otis fishing tool - unsuccessful.
9-5	Ran Midway 1 1/4" OS w/shut to bottom of liner. POH. No recovery.
9-6	WO tools.
9-7	Ran 8 5/8" surge tool to top of liner. No recovery. Ran 6 5/8" band snatcher to bottom of liner. Recovered Otis bombs.
9-8	Ran tubing, pump and rods. Spaced and moved out.
9-9 to 9-14	WO pumping unit and weather.
9-15	On production.

AC. HON. CAL. DIV. OF OIL AND GAS
 JAN 22 11 25 AM '77
 RECEIVED

DIVISION OF OIL AND GAS

Long Beach, California

TO: [Illegible]

FROM: [Illegible]

SUBJECT: [Illegible]

DATE: [Illegible]

REFERENCE: [Illegible]

RE: [Illegible]

1. [Illegible]

2. [Illegible]

3. [Illegible]

4. [Illegible]

5. [Illegible]

6. [Illegible]

7. [Illegible]

8. [Illegible]

9. [Illegible]

10. [Illegible]

11. [Illegible]

12. [Illegible]

13. [Illegible]

14. [Illegible]

15. [Illegible]

16. [Illegible]

17. [Illegible]

18. [Illegible]

19. [Illegible]

20. [Illegible]

RECEIVED
JAN 25 11 37 AM '77
DIV. OF OIL AND GAS
LONG BEACH, CA.

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

Report on Operations

SEC. 3606 WELL

No. T 176-592

Mr. Dr. M. S. Frankel, Agent
ARGO PETROLEUM CORP.
10880 Wilshire Blvd., Suite 1003
Los Angeles, CA 90024

Long Beach, Calif.
August 26, 1976

DEAR SIR:

Operations at well No. WAAP 5, API No. 037-21729, Sec. 19²⁰, T. 48, R. 13W,
S.B., B & M. Wilmington Field, in Los Angeles County, were witnessed
on 8/20/76. Mr. R. A. Johnson, Engineer, representative of the supervisor was
present from 0600 to 0700. There were also present R. Hayes, Drilling Foreman
and E. Jordan, Drilling Foreman.

Present condition of well: 13-3/8" cem. 619'; 8-5/8" cem. 4235', perf. 4222', WSO. T.D. 4235'.

The operations were performed for the purpose of testing the water shut-off with a formation tester.

DECISION: **THE 8-5/8" SHUT-OFF AT 4222' IS APPROVED.**

RAJ:d

~~HAROLD W. BERTHOLE~~
~~JOHN F. MATTHEWS, JR.~~
State Oil and Gas Supervisor

By M. B. Albright Deputy

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

Report on Operations

SEC. 3606 WELL

No. T 176-546

Mr. Dr. M. S. Frankel, Agent
ARCO PETROLEUM CORP.
10880 Wilshire Blvd, Suite 1003
Los Angeles, CA 90024

Long Beach, Calif.
August 16, 1976

DEAR SIR:

Operations at well No. WAAP 5, API No. 037-21729, Sec. 19²⁰, T. 48, R. 13W,
S.B., B & M. Wilmington Field, in Los Angeles County, were witnessed
on 8/6/76. Mr. R. Corbaley, Engineer, representative of the supervisor was
present from 1500 to 1600. There were also present R. Hayes, Drilling Foreman.

Present condition of well: 13-3/8" cem. 619' T.D. 633'.

The operations were performed for the purpose of testing the blowout-prevention equipment
and installation.

DECISION: **THE BLOWOUT-PREVENTION EQUIPMENT AND INSTALLATION ARE APPROVED.**

RC:d

HAROLD W. BERTHOLF
JOHN F. MATTHEWS, Jr.
State Oil and Gas Supervisor

By M.B. Albright Deputy

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

REPORT ON PROPOSED OPERATIONS No. P 176-578
SEC. 3606 WELL

Mr. M. S. Frankel, Agent
ARGO PETROLEUM CORP.
10880 Wilshire Blvd, Suite 1003
Los Angeles, CA 90024

Long Beach, Calif.
August 9, 1976

DEAR SIR:

WNF-I 32

Your proposal to drill Well No. WAAP 5 (037-21719),
Section 19, T. 4S, R. 13W, S.B. B. & M., Wilmington Field, Los Angeles County,
dated --, received 8/3/76, has been examined in conjunction with records filed in this office.

THE PROPOSAL IS APPROVED PROVIDED:

1. A COPY OF THIS APPROVAL SHALL BE POSTED AT THE WELL SITE PRIOR TO COMMENCING OPERATIONS.
2. Drilling fluid of a quality and in sufficient quantity to control all subsurface conditions in order to prevent blowouts shall be used.
3. Blowout prevention equipment, conforming to this Division's Class III requirements, shall be installed and maintained in operating condition at all times.
4. Sufficient cement shall be used to fill back of the 8-5/8" casing to reach above the base of the fresh waters.
5. The provisions of Sec. 3606 relating to derricks and subsurface spacing shall be followed.
6. A directional survey shall be made and filed with this Division.
7. THIS DIVISION SHALL BE NOTIFIED TO WITNESS:
 - a. A test of the installed blowout prevention equipment before drilling below 600'.
 - b. A test of the effectiveness of the 8-5/8" shut-off.

VFG:d

Blanket Bond

cc EDP

HAROLD W. BERTHOLF,
~~JOHN B. MARTINEZ~~ State Oil and Gas Supervisor

By *M.B. Albright*, Deputy

DIVISION OF OIL AND GAS
Notice of Intention to Drill New Well

037-21729

This notice and indemnity or cash bond shall be filed, and approval given, before drilling begins. If operations have not commenced within one year of receipt of the notice, this notice will be considered cancelled.

FOR DIVISION USE ONLY					
MAP	MAP BOOK	CARDS	BOND	FORMS	
				114	121
128	8/6/76 11/20	✓	B	✓	✓

DIVISION OF OIL AND GAS

WAAP 5

In compliance with Section 3203, Division 3, Public Resources Code, notice is hereby given that it is our intention to commence drilling well No. WAAP #5, API No. _____, (Assigned by Division)
Sec. 20 ~~19~~, T. 4S, R. 13W, SB B. & M., Wilmington Field, Los Angeles County.

Legal description of mineral-right lease, consisting of _____ acres, is as follows: _____
(Attach map or plat to scale)
Previously submitted

Do mineral and surface leases coincide? Yes _____ No X If answer is no, attach legal description of both surface and mineral leases, and map or plat to scale. Previously submitted.

Location of well 984.44 feet easterly along section property line and 162 feet N/E property
(Direction) (Direction)
at right angles to said line from the southwest corner of section property
which is northeast corner of Main St. & AT&SF RR Right-of Way

If well is to be directionally drilled, show proposed coordinates at total depth 2120'S & 1370'E of surface
Elevation of ground above sea level 40 feet.

All depth measurements taken from top of KB which is 9 feet above ground.
(Derrick Floor, Rotary Table or Kelly Bushing)

PROPOSED CASING PROGRAM

SIZE OF CASING INCHES A.P.I.	WEIGHT	GRADE AND TYPE	TOP	BOTTOM	CEMENTING DEPTHS	CALCULATED FILL BEHIND CASING
13-3/8	48	ERW	0	600	600	Surface
8-5/8	32	K-55	0	4190	4190	2000
6-5/8	24	K-55	4105	4610	Gravel packed	

(A complete drilling program is preferred and may be submitted in lieu of the above program)

Intended zone(s) of completion Ranger zone, 4190', 1400 psi Estimated total depth 4610'
(Name, depth and expected pressure)

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

Address 10880 Wilshire Blvd.
(Street)
Los Angeles, CA 90024
(City) (State) (Zip)
Telephone Number 213/475-4976

ARGO PETROLEUM CORPORATION
(Name of Operator)
By [Signature]
(Name) (Date)
Type of Organization corporation
(Corporation, Partnership, Individual, etc.)

DIV. OF OIL AND GAS
LONG BEACH, CA.

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