

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 116-0868

## 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  
July 21, 2016

Your operations at well "Wnf-I" 21, A.P.I. No. 037-21445, Sec. 19, T. 04S, R. 13W, SB B.&M., **Wilmington** field, in **Los Angeles** County, were witnessed on **6/14/2016**, by **Cary Wicker**, a representative of the supervisor.

The operations were performed for the purpose of **demonstrating that all of the injection fluid is confined to the approved zone.**

DECISION: **APPROVED**

Note: The violation specified in the Notice of Violation Report V116-00150 dated June 2, 2016, has been corrected.

EXPIRED \_\_\_\_\_  
CANCELLED \_\_\_\_\_  
MAILED \_\_\_\_\_  
EMAILED 8.4.16 TL

CWK/CC

Kenneth A. Harris Jr.  
\_\_\_\_\_  
State Oil and Gas Supervisor

By Callie L. Callum  
For Daniel J. Dudak, District Deputy

State of California  
Department of Conservation  
Division of Oil, Gas, and Geothermal Resources

No. T 116-0868

### MECHANICAL INTEGRITY TEST (MIT)

Operator: <u>E and B Natural Resources</u>					Well: <u>wnf-I-21</u>				
Sec. <u>19</u>	T. <u>45</u>	R. <u>13W</u>	B.&M. <u>SB</u>	API No.: <u>037-21445</u>			Field: <u>Wilmington</u>		
County: <u>Los Angeles</u>					Witnessed/Reviewed on: <u>6-14-16</u>				
<u>Cary Wicker</u> representative of the supervisor, was present from <u>1200</u> to <u>1330</u>									
Also present were: <u>Brandon Ceseñas</u>									
Casing record of the well:									
The MIT was performed for the purpose of <u>Note: (15)</u>									
<input checked="" type="checkbox"/> The MIT is approved since it indicates that all of the injection fluid is confined to the formations below <u>4535</u> feet at this time.									
<input type="checkbox"/> The MIT is not approved due to the following reasons: (specify)									

Well: <b>Wnf-I-21</b>	Date: <b>6-14-16</b>	Time: <b>1200</b>
Observed rate: <b>195</b> B/D	Meter rate: <b>248</b> B/D	Fluid level: <b>0</b> feet
Injection pressure: <b>1161</b> psi	MASP: <b>1161</b>	Pick-up depth: <b>4586</b> feet
Initial annulus pressure: <b>0</b> psi	Pressure after bleed-off: <b>0</b> psi	

Casing vented during test (Y/N) \_\_\_\_\_ Survey company: **Production Data Incorporated**

SPINNER COUNTS						
DEPTH	COUNTS	RATE	DEPTH	COUNTS	RATE	COMMENTS:

**TRACER CASING AND TUBING RATE CHECKS**

Interval	Time (sec.)	Rate (B/D)	Background log: <b>4550'</b> to <b>4300'</b>
<b>4350' to 4400'</b>	<b>83</b>	<b>195</b>	COMMENTS:

**TOP PERFORATION CHECK**

Top perforation depth: **4535'** Wait at: \_\_\_\_\_ for \_\_\_\_\_ seconds Beads: (Y/N)

Casing shoe at: **4910'** WSO holes at: \_\_\_\_\_ Arrival time: *Calculated* *Actual*

LOG FROM	TO	SLUG @	LOG FROM	TO	SLUG @	COMMENTS:
<b>4400' to 4475'</b>	<b>4475' ↓</b>	<b>4429'</b>	<b>4300'</b>	<b>4525'</b>	<b>4476'</b>	<b>*top perf/ packer check good</b>
<b>4475'</b>	<b>4300' ↑</b>	<b>4438'</b>	<b>4525'</b>	<b>4300'</b>	<b>4481'</b>	
<b>4500'</b>	<b>4300'</b>	<b>4455'</b>	<b>4370'</b>	<b>4300'</b>	<b>4542'</b>	
			<b>4570'</b>	<b>4300'</b>	<b>4561' *</b>	

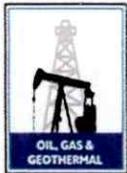
**PACKER CHECK**

Packer at: **4421' COE** Wait at: **4400'** for **60** seconds Beads: (Y/N)

Tubing tail at: **4423'** Tubing size: **2-7/8"/2-3/8"** 2nd Packer at: \_\_\_\_\_ Mandrel: \_\_\_\_\_

LOG FROM	TO	SLUG @	LOG FROM	TO	SLUG @	COMMENTS:

COMMENTS:



Department of Conservation

**Division of Oil, Gas, and Geothermal Resources – District 1**

5816 Corporate Avenue • Suite 100

Cypress, CA 90630

(714) 816-6847 • FAX (714) 816-6853

## NOTICE OF VIOLATION

June 2, 2016

Report # V116-00150

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

Subject: Failed Radioactive Tracer Survey (RA Survey), Well "Wnf-1" 21, API # 037-21445,  
Wilmington Oil Field.

Dear Ms. Holtzclaw:

California Code of Regulations (CCR) section 1724.10 (j) states that "A mechanical integrity test (MIT) must be performed on all injection wells to ensure the injected fluid is confined to the approved zone or zones..."

According to our records, the following well has failed an MIT:

<u>Violation No.</u>	<u>API Number</u>	<u>Well Number</u>	<u>Test Type</u>	<u>Last Test Date</u>
V116-00150	037-21445	"Wnf-1" 21	RA Survey	2/3/2016

The Division of Oil, Gas, and Geothermal Resources (Division) shall be provided acceptable test result for the subject well by July 17, 2016. In order for the Division to witness this test, this office must be notified at least 24 hours prior to conducting the testing. Failure to notify the Division prior to testing may result in a failure/inconclusive test and further enforcement action.

Failure to comply with the laws of California and the Division may result in enforcement action including, but not limited to, issuance of a civil penalty and/or order pursuant to Public Resources Code Sections 3106, 3224, 3235 and 3236.5.

Ms. Madelyn (Joyce) Holtzclaw, Agent  
June 2, 2016  
Page 2

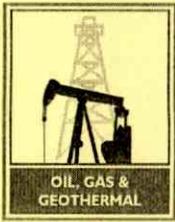
If you have any questions, please contact Hafiz Ali Mohammed at (714) 816-6847 or [Hafiz.Ali-Mohammed@conservation.ca.gov](mailto:Hafiz.Ali-Mohammed@conservation.ca.gov).

Sincerely,

A handwritten signature in blue ink, consisting of a stylized 'M' followed by a long horizontal flourish.

Michel Vasconcellos  
Senior Oil and Gas Engineer

CC: Well File  
Project File



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 116-0651

## 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  
May 31, 2016

Your operations at well "**Wnf-I" 21**, A.P.I. No. **037-21445**, Sec. **19**, T. **04S**, R. **13W**, **SB B.&M.**, **Wilmington** field, in **Los Angeles** County, were witnessed on **5/18/2016**, by **Joseph Athanasious**, a representative of the supervisor.

The operations were performed for the purpose of **demonstrating that all of the injection fluid is confined to the approved zone.**

DECISION: **APPROVED**

Notes: NONE

EXPIRED \_\_\_\_\_  
CANCELLED \_\_\_\_\_  
MAILED \_\_\_\_\_  
EMAILED 6.10.16 TZ

JMA/HAM

Kenneth A. Harris Jr.  
\_\_\_\_\_  
State Oil and Gas Supervisor

By Wafiz Ateeq  
For \_\_\_\_\_  
Daniel J. Dudak, District Deputy

Report on Operations  
Standard Annular Pressure Test

OPERATOR E&B Natural Resources  
Management Corp.  
\_\_\_\_\_  
\_\_\_\_\_

Your operations at well "WNF-I" 21 API No. 037-21445

Sec 19 , T 04S , R 13W , SB , B. & M.  
Wilmington (FB I) Field, in Los Angeles County,

were witnessed on 5/18/2016 . J. Athanasious , representative of  
the supervisor, was present from 1700 to 1720

There was also present Dave Potter

Present condition of well: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

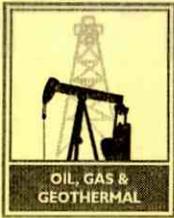
The operations were performed for the purpose of pressure testing the 7" casing. The casing was  
pressure tested with 1700 psig for 20 minutes. There was 0 pressure drop.

Packer Depth: 4420'

Well Status:  Injecting at \_\_\_\_\_ psi  Idle  Shut in

DECISION:

The pressure test is  Approved  Not Approved



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DIVISION OF OIL, GAS & GEOTHERMAL RESOURCES  
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Phone:(714) 816-6847 Fax:(714) 816-6853

No. T 116-0293

## 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  
February 26, 2016

Your operations at well "**Wnf-I" 21**, A.P.I. No. **037-21445**, Sec. **19**, T. **04S**, R. **13W**, **SB B.&M.**, **Wilmington** field, in **Los Angeles** County, were witnessed on **2/26/2016**, by **Cary Wicker**, a representative of the supervisor.

The operations were performed for the purpose of **inspecting the blowout prevention equipment and installation.**

DECISION: **APPROVED**

DEFICIENCIES NOTED AND CORRECTED: No kill line on 1/12/2016, kill line was installed on 1/13/2016

EXPIRED \_\_\_\_\_  
CANCELLED \_\_\_\_\_  
MAILED \_\_\_\_\_  
EMAILED 3.11.16 TC

CWK/ham

Kenneth A. Harris Jr.  
\_\_\_\_\_  
State Oil and Gas Supervisor

By Habib Ateeg  
For Daniel J. Dudak, District Deputy

# BLOWOUT PREVENTION EQUIPMENT MEMO

Operator E and B Resources Well "Wnf-1" 21 Sec. 19 T. 045 R. 13W  
 Field Wilmington County Los Angeles Spud Date \_\_\_\_\_  
 VISITS: Date Engineer Time Operator's Rep. Title  
 1st 1-12-16 Cary Wicker (1000 to 1015) \_\_\_\_\_  
 2nd 1-13-16 Cary Wicker (0800 to 0815) \_\_\_\_\_  
 Contractor Basics Rig # 1817 Contractor's Rep. & Title Edwin Paez Rig Manager  
 Casing record of well: \_\_\_\_\_

OPERATION: Testing (inspecting) the blowout prevention equipment and installation. Critical well? Y  N   
 DECISION: The blowout prevention equipment and its installation on the 7 " casing are approved.

Proposed Well Opns: Rework MACP: \_\_\_\_\_ psi  
 Hole size: \_\_\_\_\_ " fr. \_\_\_\_\_ " to \_\_\_\_\_ " to \_\_\_\_\_ " & \_\_\_\_\_ " to \_\_\_\_\_ " **REQUIRED BOPE CLASS: 112M**

CASING RECORD OF BOPE ANCHOR STRING					Cement Details		Top of Cement	
Size	Weight(s)	Grade(s)	Shoe at	CP at			Casing	Annulus

BOP STACK							TEST DATA						
API Symb.	Ram Size (in.)	Manufacturer	Model or Type	Vert. Bore Size (in.)	Press. Rtg.	Date Last Overhaul	Gal. to Close	Recov. Time (Min.)	Calc. GPM Output	psi Drop to Close	Secs. to Close	Test Date	Test Press.
<u>Rd</u>	<u>2-7/8</u>	<u>Townsend</u>	<u>81</u>	<u>9</u>	<u>3M</u>		<u>1</u>						
<u>Rd</u>	<u>CS6</u>	<u>Townsend</u>	<u>81</u>	<u>9</u>	<u>3M</u>		<u>1</u>						

ACTUATING SYSTEM				TOTAL: <u>2</u>	AUXILIARY EQUIPMENT						
Accumulator Unit(s) Working Pressure _____ psi					Connections						
Total Rated Pump Output _____ gpm		Fluid Level _____		No.	Size (in.)	Rated Press.	Weld	Flange	Thread	Test Press.	
Distance from Well Bore <u>25</u> ft.		<u>ok</u>									
Accum. Manufacturer	Capacity	Precharge		Fill-up Line							
<u>hand pump</u>	gal.	psi	<u>X</u>	Kill Line		<u>2</u>	<u>3M</u>			<u>X</u>	
	gal.	psi	<u>X</u>	Control Valve(s)	<u>4</u>		<u>3M</u>			<u>X</u>	
CONTROL STATIONS				Check Valve(s)							
Manifold at accumulator unit				Aux. Pump Connect.							
Remote at Driller's station				Choke Line							
<u>X</u> Other: <u>hand pump</u>				Control Valve(s)							
EMERG. BACKUP SYSTEM				Pressure Gauge							
N <sub>2</sub> Cylinders	1	L= <u>51</u> "	Press. <u>2200</u>	Wkg. <u>6</u> gal.	Adjustable Choke(s)						
Other:	2	L= "		gal.	Bleed Line						
	3	L= "		gal.	Upper Kelly Cock						
	4	L= "		gal.	Lower Kelly Cock						
	5	L= "		gal.	Standpipe Valve						
	6	L= "		gal.	Standpipe Press.						
TOTAL: <u>6</u> gal				<u>X</u>	Pipe Safety Valve	<u>2-7/8</u>	<u>3M</u>				
					Internal Preventer						

HOLE FLUID MONITORING EQUIPMENT			Alarm Type		Class	Hole Fluid Type	Weight	Storage Pits (Type & Size)
	Audible	Visual						
Calibrated Mud Pit					A	<u>water</u>		<u>100 bbls</u>
Pit Level Indicator					B			
Pump Stroke Counter					C			
Pit Level Recorder								
Flow Sensor								
Mud Totalizer								
Calibrated Trip Tank								
Other:								

REMARKS AND DEFICIENCIES: no kill line on 1-12-16  
Kill line present on 1-13-16

**CONTRACTOR:**

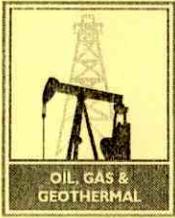
Basco

**UNCORRECTABLE DEFICIENCIES:**

none

**DEFICIENCIES NOTED AND CORRECTED:**

no kill line on 1-12-16  
kill line installed by 1-13-16



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No. T 116-0628

### 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  
May 23, 2016

Your operations at well "Wnf-I" 21, A.P.I. No. 037-21445, Sec. 19, T. 04S, R. 13W, SB B.&M., **Wilmington** field, in **Los Angeles** County, were witnessed on 2/3/2016, by **Eric Weigand**, a representative of the supervisor.

The operations were performed for the purpose of **demonstrating that all of the injection fluid is confined to the approved zone.**

DECISION: **NOT APPROVED**

Deficiencies: Detected Hole in Casing between 4445' - 4455'.

EXPIRED \_\_\_\_\_  
CANCELLED \_\_\_\_\_  
MAILED \_\_\_\_\_  
EMAILED 5-31-16 TL

EW/HAM

\_\_\_\_\_  
Kenneth A. Harris Jr.  
State Oil and Gas Supervisor

By Madis Ateegy  
For Daniel J. Dudak, District Deputy

State of California  
Department of Conservation  
Division of Oil, Gas, and Geothermal Resources

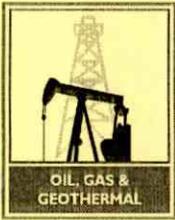
No. T

116-0628

### Mechanical Integrity Test (MIT)

Operator:	E & B Natural Resources			Well Name/Number	"Wnf-I" 21						
Sec:	19	Tow:	04S	Ran:	13W	B&M:	SB	API No.:	037-21445	Field:	Wilmington
County:	Los Angeles			Witnessed/Reviewed on:				2/3/2016			
Eric Weigand		, representative of the supervisor, was present from					7:00	to	8:00		
Also present were:		Brandon Cesenas (PDI)									
Casing Record of the Well:											
<p>CONTRACTOR: PDI</p> <p>UNCORRECTABLE DEFECIENCES: NONE</p> <p>DEFECIENCES NOTED AND TO BE CORRECTED: Hole in casing between 4445' and 4455'</p> <p>DEFECIENCES NOTED AND CORRECTED: NONE</p>											
The MIT was performed for the purpose of:						Note: (15)					
<input type="checkbox"/> The MIT is approved since it indicates that all of the injection fluid is confined to the formations below _____ feet at this time											
<input checked="" type="checkbox"/> The MIT is not approved due to the following reasons: Detected HIC between 4445' - 4455'											

<b>Well:</b> "Wnf-1" 21		<b>Date:</b> 2/3/16		<b>Time:</b> 07:00 - 08:00				
<b>Observed Rate:</b> 335 B/D		<b>Meter Rate:</b> 500 B/D		<b>Fluid Level:</b> 0				
<b>Injection Press:</b> 1530 psi		<b>MASP:</b> 1630 psi		<b>Pick-up Depth (ft):</b> 4789				
<b>Initial Annulus Pressure:</b> 0 psi			<b>Pressure after bleed-off:</b> 0 psi					
<b>Casing vented during test (Y/N):</b> Y			<b>Survey Company:</b> PDI					
<b>Spinner Counts</b>								
<b>Depth</b>	<b>Counts</b>	<b>Rate</b>	<b>Depth</b>	<b>Counts</b>	<b>Rate</b>	<b>Comments</b>		
<b>Tracer Casing and Tubing Rate Checks</b>								
<b>Interval (ft to ft)</b>		<b>Time (sec)</b>	<b>Survey Rate (BPD)</b>	<b>Background log (ft):</b> 4300 to 4550		<b>Comments:</b>		
4300 to 4400	100	335						
<b>Top Perforation Check</b>								
<b>Top Perforation:</b> 4461 feet		<b>Wait at:</b> 4400 feet for 60 seconds		<b>Beads (Y/N):</b> N				
<b>Casing Shoe at:</b> 4535 ft			<b>WSO Holes at:</b> 4528 ft					
<b>Arrival Time Calculated:</b> secs			<b>Arrival Time Actual:</b> secs					
<b>Log from (ft)</b>	<b>Log to (ft)</b>	<b>Slug at (ft)</b>	<b>Log from (ft)</b>	<b>Log to (ft)</b>	<b>Slug at (ft)</b>	<b>Log from (ft)</b>	<b>Log to (ft)</b>	<b>Slug at (ft)</b>
4400	4550	4462	4550	4300	4506			
4550	4300	4465	4550	4300	4523			
4550	4300	4478	4550	4300	4538			
4550	4300	4488	4550	4300	4550			
<b>Comments:</b> 64% exiting Holes in 7" casing between 4445' and 4455', at liner top, based on gamma count across the interval, and slug downward movement rate. No migration above 4445' observed.								
<b>Packer Check</b>								
<b>Packer at:</b> 4427 (COE) ft		<b>Wait at:</b> 4400 feet for 60 seconds		<b>Beads (Y/N):</b> N				
<b>Tubing Tail at:</b> 4428 ft		<b>Tubing size (in):</b> 2-7/8		<b>2nd Packer at (ft):</b>		<b>Mandrel (ft):</b>		
<b>Log from (ft)</b>	<b>Log to (ft)</b>	<b>Slug at (ft)</b>	<b>Log from (ft)</b>	<b>Log to (ft)</b>	<b>Slug at (ft)</b>	<b>Log from (ft)</b>	<b>Log to (ft)</b>	<b>Slug at (ft)</b>
4400	4550	4462	4550	4300	4506			
4550	4300	4465	4550	4300	4523			
4550	4300	4478	4550	4300	4538			
4550	4300	4488	4550	4300	4550			
<b>Comments:</b> Tbg is 2-7/8" x 2-3/8" w/ x-over @ 2124'. Slug moving down, packer check ok.								
<b>General Comments:</b> Pickup witnessed on 2/2/16 but unable to complete survey on 2/2/16 due to faulty tools.								



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No. T 116-0241

### 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  
February 09, 2016

Your operations at well "Wnf-I" 21, A.P.I. No. 037-21445, Sec. 19, T. 04S, R. 13W, SB B.&M., Wilmington field, in Los Angeles County, were witnessed on 2/3/2016, by Eric Weigand, a representative of the supervisor.

The operations were performed for the purpose of demonstrating that all of the injection fluid is confined to the approved zone.

DECISION: NOT APPROVED

DEFICIENCIES NOTED AND TO BE CORRECTED:  
Hole in casing between 4445' and 4455'

EXPIRED \_\_\_\_\_  
CANCELLED \_\_\_\_\_  
MAILED \_\_\_\_\_  
EMAILED 3-11-16 TL

EW/ham

Kenneth A. Harris Jr.  
State Oil and Gas Supervisor

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

State of California  
Department of Conservation  
Division of Oil, Gas, and Geothermal Resources

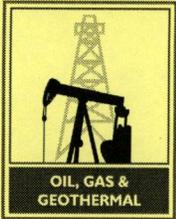
No. T

116-0241

### Mechanical Integrity Test (MIT)

Operator:		E & B Natural Resources			Well Name/Number		"Wnf-1" 21				
Sec:	19	Tow:	04S	Ran:	13W	B&M:	SB	API No.:	037-21445	Field:	Wilmington
County:				Los Angeles			Witnessed/Reviewed on:		2/3/2016		
Eric Weigand		, representative of the supervisor, was present from					7:00	to	8:00		
Also present were:		Brandon Cesenas (PDI)									
Casing Record of the Well:											
<p>CONTRACTOR: PDI</p> <p>UNCORRECTABLE DEFECIENCES: NONE</p> <p>DEFECIENCES NOTED AND TO BE CORRECTED: Hole in casing between 4445' and 4455'</p> <p>DEFECIENCES NOTED AND CORRECTED: NONE</p>											
The MIT was performed for the purpose of:						Note: (15)					
<input type="checkbox"/> The MIT is approved since it indicates that all of the injection fluid is confined to the formations below _____ feet at this time											
<input checked="" type="checkbox"/> The MIT is not approved due to the following reasons: Detected HIC between 4445' - 4455'											

<b>Well:</b> "Wnf-1" 21		<b>Date:</b> 2/3/16		<b>Time:</b> 07:00 - 08:00				
<b>Observed Rate:</b> 335 B/D		<b>Meter Rate:</b> 500 B/D		<b>Fluid Level:</b> 0				
<b>Injection Press:</b> 1530 psi		<b>MASP:</b> 1630 psi		<b>Pick-up Depth (ft):</b> 4789				
<b>Initial Annulus Pressure:</b> 0 psi			<b>Pressure after bleed-off:</b> 0 psi					
<b>Casing vented during test (Y/N):</b> Y			<b>Survey Company:</b> PDI					
<b>Spinner Counts</b>								
<b>Depth</b>	<b>Counts</b>	<b>Rate</b>	<b>Depth</b>	<b>Counts</b>	<b>Rate</b>	<b>Comments</b>		
<b>Tracer Casing and Tubing Rate Checks</b>								
<b>Interval (ft to ft)</b>		<b>Time (sec)</b>	<b>Survey Rate (BPD)</b>	<b>Background log (ft):</b> 4300 to 4550				
4300 to	4400	100	335	<b>Comments:</b>				
to								
to								
to								
<b>Top Perforation Check</b>								
<b>Top Perforation:</b> 4461 feet		<b>Wait at:</b> 4400 feet for 60 seconds		<b>Beads (Y/N):</b> N				
<b>Casing Shoe at:</b> 4535 ft			<b>WSO Holes at:</b> 4528 ft					
<b>Arrival Time Calculated:</b> secs			<b>Arrival Time Actual:</b> secs					
<b>Log from (ft)</b>	<b>Log to (ft)</b>	<b>Slug at (ft)</b>	<b>Log from (ft)</b>	<b>Log to (ft)</b>	<b>Slug at (ft)</b>	<b>Log from (ft)</b>	<b>Log to (ft)</b>	<b>Slug at (ft)</b>
4400	4550	4462	4550	4300	4506			
4550	4300	4465	4550	4300	4523			
4550	4300	4478	4550	4300	4538			
4550	4300	4488	4550	4300	4550			
<b>Comments:</b> 64% exiting Holes in 7" casing between 4445' and 4455', at liner top, based on gamma count across the interval, and slug downward movement rate. No migration above 4445' observed.								
<b>Packer Check</b>								
<b>Packer at:</b> 4427 (COE) ft		<b>Wait at:</b> 4400 feet for 60 seconds		<b>Beads (Y/N):</b> N				
<b>Tubing Tail at:</b> 4428 ft		<b>Tubing size (in):</b> 2-7/8		<b>2nd Packer at (ft):</b>		<b>Mandrel (ft):</b>		
<b>Log from (ft)</b>	<b>Log to (ft)</b>	<b>Slug at (ft)</b>	<b>Log from (ft)</b>	<b>Log to (ft)</b>	<b>Slug at (ft)</b>	<b>Log from (ft)</b>	<b>Log to (ft)</b>	<b>Slug at (ft)</b>
4400	4550	4462	4550	4300	4506			
4550	4300	4465	4550	4300	4523			
4550	4300	4478	4550	4300	4538			
4550	4300	4488	4550	4300	4550			
<b>Comments:</b> Tbg is 2-7/8" x 2-3/8" w/ x-over @ 2124'. Slug moving down, packer check ok.								
<b>General Comments:</b> Pickup witnessed on 2/2/16 but unable to complete survey on 2/2/16 due to faulty tools.								



NATURAL RESOURCES AGENCY OF CALIFORNIA  
DEPARTMENT OF CONSERVATION  
DIVISION OF OIL, GAS & GEOTHERMAL RESOURCES  
5816 Corporate Ave., Suite 200 Cypress, CA 90630-4731  
Phone:(714) 816-6847 Fax:(714) 816-6853

No. T 115-0052

### REPORT ON OPERATIONS

#### WATER FLOOD PROJECT

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

Cypress, California  
February 4, 2015

Your operations at well "Wnf-I" 21, A.P.I. No. 037-21445, Sec. 19, T. 04S, R. 13W, SB B.&M., Wilmington field, in Los Angeles County, were witnessed on 9/29/2014, by Dale Peterson, a representative of the supervisor.

The operations were performed for the purpose of **pressure testing the 7" casing/tubing annulus.**

DECISION: **NOT APPROVED**

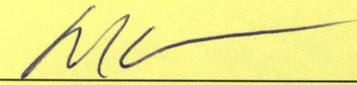
DEFICIENCIES NOTED AND CORRECTED: **150 psi loss during test.**

EXPIRED \_\_\_\_\_  
CANCELLED \_\_\_\_\_  
MAILED \_\_\_\_\_  
EMAILED 2/6/2015 g.H.

MV/kj

cc: State Lands Commission  
Long Beach Dept. of Gas and Oil

Steven Bohlen  
\_\_\_\_\_  
State Oil and Gas Supervisor

By   
\_\_\_\_\_  
Daniel J. Dudak, District Deputy

65

OK mv 1/28/15

T 115-0052

Natural Resources Agency  
Department of Conservation  
Division of Oil, Gas, and Geothermal Resources

Report on Operations  
Standard Annular Pressure Test

OPERATOR E/B Natural Resources  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

CONTRACTOR:  
Wellaco  
UNCORRECTABLE DEFICIENCIES:  
None  
DEFICIENCIES NOTES AND TO BE CORRECTED:  
None  
DEFICIENCIES NOTED AND CORRECTED:  
None

Your operations at well Wnf I 21 API No. 037-21445  
Sec 19 , T 04S , R 13W , SB , B. & M. Wilmington Field, Los Angeles County,  
were witnessed on 09/29/2014 . Dale Peterson , representative of  
the supervisor, was present from 0900 1100 .

There was also present Stan Ballard (Wellaco)

Casing record of present hole: 10 3/4" cem 620', 7" cem 4910', CP 4530', perf 4528' WSO, perf @ int 4582'-  
4640' & 4745'-4747', milled 4535'-4650' & 4730'-4750', 5 1/2" Id 4451'-4772', perf @ int 4461'-4757', TD 4911',

A Standard Annular Pressure Test was performed on the 7" casing. The tubing/casing annulus was  
pressure tested with 960 psig for 15 minutes. There was 150 psi pressure drop.

Packer Depth: 4002'

Well Status:  Injecting at 1080 psi  Idle  Shut in

DECISION:

The pressure test is  Approved  Not Approved

64

Well Name:

Wnf-I 21

API #:

037-21445

Date:

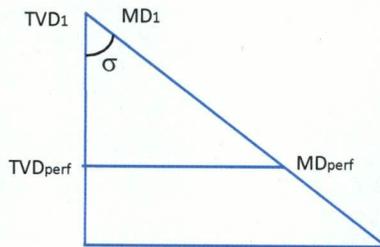
1/27/2015

**Interpolation for Confined Total Vertical Depth (TVD<sub>conf</sub>)**

**Top perf TVD verification**

$$TVD_{perf} = TVD_1 + ((MD_{perf} - MD_1) * \cos \sigma)$$

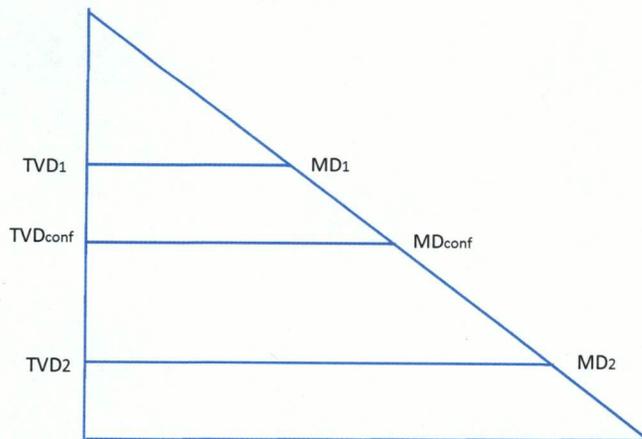
MD <sub>1</sub>	TVD <sub>1</sub>	MD <sub>perf</sub>	Inclination Angle (σ)	TVD <sub>perf</sub>
				0



MD = Measured depth  
 TVD = Total Vertical Depth  
 perf = Perforation  
 σ = Angle of Inclination

$$TVD_{conf} = (((MD_{conf} - MD_2) / (MD_1 - MD_2)) * (TVD_1 - TVD_2)) + TVD_2$$

MD <sub>1</sub>	TVD <sub>1</sub>	MD <sub>2</sub>	TVD <sub>2</sub>	MD <sub>conf</sub>	TVD <sub>conf</sub>
4455	3476	4668	3671	4528	3542.830986



MD = Measured depth  
 TVD = Total Vertical Depth

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**Vasconcellos, Michel@DOC**

---

**From:** Dan Fouts <dfouts@ebresources.com>  
**Sent:** Wednesday, January 28, 2015 3:20 PM  
**To:** Vasconcellos, Michel@DOC  
**Cc:** Brandy Fellers; Danielle Uhl  
**Subject:** RE: WNF I 21

Mike,

I have not submitted an NOI yet to repair WNF-I 21. We intend to get a rig on it in the next few months and test the casing and locate the potential leak. We will then devise a repair plan and submit an NOI if required.

FYI this is what we have in the queue in regards to getting injectors back in working order:

Currently we are working on repairing injector WNF-I 3 (permit P 114-0783). (9-26-14)

Then we will repair injector WNF-I 8 (permit P 114-0783). (1-4-15) JC

We also have the redrill of injector WNF-I 19 to recomplete (permit P 114-0769). (10-29-2014)

Then we have two idle wells to test (injector WNF-I 10 and producer WNF-I 26) as well as WNF-I 21 to investigate.

Feel free to inquire about any of the above or any other well work issues at Wilmington.

Regards,  
Dan

---

**From:** Vasconcellos, Michel@DOC [mailto:Michel.Vasconcellos@conservation.ca.gov]  
**Sent:** Wednesday, January 28, 2015 11:24 AM  
**To:** Brandy Fellers  
**Subject:** WNF I 21

Hi again.

I see that WNF I 21 failed a SAPT last year. What is the status of the well and any NOI to repair?

Thanks,

Mike

*Michel Vasconcellos, PG, CEG  
Associate Oil and Gas Engineer  
Department of Conservation  
Division of Oil, Gas, and Geothermal Resources  
(714) 816-6847 ext. 6806*



**CONFIDENTIALITY NOTICE:** This communication with its contents may contain confidential and/or legally privileged information. It is solely for the use of the intended recipient(s). Unauthorized interception, review, use or disclosure is prohibited and may violate applicable laws including the Electronic Communications Privacy Act. If you are not the intended recipient, please contact the sender and destroy all copies of the communication.

John F. Davis, Jr.  
FCW 452

To:  
From:  
Subject:

Date:

I have not submitted an FBI report on this matter. We intend to file a report in the near future and for the public's sake, we will then advise a report has been submitted to the FBI.

I am sure you have in the past been advised of the fact that we have a policy of not disclosing information to the media. We are now working on a policy of not disclosing information to the media.

We also have a policy of not disclosing information to the media. We have a policy of not disclosing information to the media. We have a policy of not disclosing information to the media.

Regards,

John F. Davis, Jr.  
FCW 452

To: John F. Davis, Jr.  
FCW 452

Thank you.

I am sure you will find this information helpful. I will be in touch with you again.

Thank you.

John F. Davis, Jr.

John F. Davis, Jr.  
FCW 452  
Department of Commerce  
Division of Operations and Security Services  
Main Office ext. 400

**Vasconcellos, Michel@DOC**

---

**From:** Vasconcellos, Michel@DOC  
**Sent:** Wednesday, January 28, 2015 11:24 AM  
**To:** Brandy Fellers (bfellers@ebnaturalresources.com)  
**Subject:** WNF I 21

Hi again.

I see that WNF I 21 failed a SAPT last year. What is the status of the well and any NOI to repair?

Thanks,

Mike

*Michel Vasconcellos, PG, CEG  
Associate Oil and Gas Engineer  
Department of Conservation  
Division of Oil, Gas, and Geothermal Resources  
(714) 816-6847 ext. 6806*



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037-21445

WNFI 21

MV 1-28-15

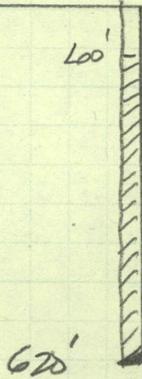
1974 OH DD OG Ranger

1977 RD1

1984 CTI H<sub>2</sub>O/Con

2012 Proposed RD2  
NO AOR  
NOI not answered

1074° 43' 13 1/4"  
334 CF  
FL 616'  
CTOC 0'  
TOP JOB 405X  
ETOC 60'



1018'

1807 ± BFW

7" 23# 9 7/8"

4528' WSD w/1005X

4451'

4535'

4563' Ranger

P 4582'-4747'

653 CF  
200 @ 1.5" = 230 CF  
= 883 CF  
FRAC PACK  
CTOC 1018'

gravel pack

5 1/2" 17#  
4451-  
4772  
P 4461-  
4757

4910'  
49117D  
4823/PB

4750'  
4772'

OH  
RD1



# DEPARTMENT OF CONSERVATION

*Managing California's Working Lands*

## Division of Oil, Gas, & Geothermal Resources

5816 CORPORATE AVENUE • SUITE 200 • CYPRESS, CALIFORNIA 90630

PHONE 714 / 816-6847 • FAX 714 / 816-6853 • TDD 916 / 324-2555 • WEB SITE [conservation.ca.gov](http://conservation.ca.gov)

April 5, 2012

Jeffrey Blesener, Agent  
E&B Natural Resources Management Corp.  
1600 Norris Road  
Bakersfield, CA 93308

The Division of Oil, Gas, and Geothermal Resources is in receipt of your permit application dated **March 23, 2012**, of your intention to **re-drill** well "**WNF-I**" **21**, API# **037-21445**, Sec. **19**, T. **4S**, R. **13W**, **SB B. & M.**, **Wilmington** Field in Los Angeles County. The Division is unable to issue permit approval until maps showing the top of injection zone, the location of the proposed injection well, and injection wells in the vicinity of the proposed well have been submitted and evaluated.

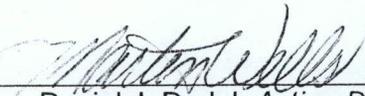
AOR

Please call Martin Wells at 714-816-7820 if you have any questions

Tim Kustic

State Oil & Gas Supervisor

By:

  
For: Daniel J. Dudak Acting District Deputy

MW:mw

OG113 7/19/2010



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

# 112-0270

09/AA

FOR DIVISION USE ONLY		
Bond	Forms	
	OGD114	OGD121
BB	3/31/12	3/29/12 <i>df</i>

## NOTICE OF INTENTION TO REWORK / REDRILL WELL

Detailed instructions can be found at: [www.conservation.ca.gov/dog/](http://www.conservation.ca.gov/dog/)

In compliance with Section 3203, Division 3, Public Resources Code, notice is hereby given that it is our intention to rework  / redrill  well WNF-I #21 "Wnf-1" 21, API No. 037-21445,  
(Check one)

Sec. 19, T. 4S, R. 13W, SB B.&M., Wilmington Field, LA County.

The complete casing record of the well (present hole), including plugs and perforations, is as follows: (Attach wellbore schematics diagram also.)

See attached program.

The total depth is: 4911' feet. The effective depth is: 4757' feet.  
 Present completion zone(s): Ranger Anticipated completion zone(s): Ranger  
(Name) (Name)  
 Present zone pressure: 1350 psi. Anticipated/existing new zone pressure: 1350 psi.

Is this a critical well as defined in the California Code of Regulations, Title 14, Section 1720(a) (see next page)? Yes  No

For redrilling or deepening only, is a California Environmental Quality Act (CEQA) document required by a local agency?  
 Yes  No  If yes, see next page.

The proposed work is as follows: (A complete program is preferred and may be attached.)  
 See attached program.

If well is to be redrilled or deepened, show proposed coordinates (from surface location) and true vertical depth at total depth: 2548 feet North and 100 feet West Estimated true vertical depth: 4900'  
(Direction) (Direction)

Will the Field and/or Area change? Yes  No  If yes, specify New Field: \_\_\_\_\_ New Area: \_\_\_\_\_

The Division must be notified immediately of changes to the proposed operations. Failure to provide a true and accurate representation of the well and proposed operations may cause rescission of the permit.

Name of Operator E&B Natural Resources Management Corp.		
Address 1600 Norris Rd.		City/State Bakersfield, CA
Name of Person Filing Notice Joe Ahlgrim		Zip Code 93308
Telephone Number: (661) 679-1700	Signature 	
Date 3/23/12		
Individual to contact for technical questions: Joe Ahlgrim	Telephone Number: (661)679-1700	E-Mail Address: jahlgrim@ebresources.com

This notice and an indemnity or cash bond must be filed, and approval given, before the workover begins. (See the reverse side for bonding information.) If operations have not commenced within one year of the Division's receipt of the notice, this notice will be considered cancelled.

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11 02 11

**DRAFT SIDETRACK PROGRAM**  
**E&B NATURAL RESOURCES**

**API#: 037-21445**

**PERMIT #:**  
**"WNF-I #21"**

**Present Condition**

**TD:** 4911'

**ED:** 4757'

**Surface:** 10 3/4" 40.5# H40 0'-620' cmt'd

**Casing:** 7" 23# K55 0'-4910' cmt w/ 853 cf.

Plugged to 4865', milled windows @ 4535'-4650', 4730'-4750'

**Liner:** 5 1/2" 17# J55 hung f/4451'-4772 g.p.'d w/ 6/9 gravel through port collars.

**Note:**

**PROCEDURE:**

1. MIRU Production Rig.
2. Unseat Injection packer and POOH laying down tubing.
3. PU and RIH w/ 7" casing scraper to TOL. Circulate well clean and turn over to lease water. POOH.
4. RIH oe to 4757'(ED). DOGGR to witness tag if necessary.
5. RU cementers and pump plug from TD to 4300'. WOC. Tag plug, DOGGR witness if required. If tag is below 4300', Repeat process.
6. Pressure test 7" casing to 1500 psi for 15 minutes. If casing does not pass notify Drilling Engineer. POOH laying down tubing.
7. RDMO Production Rig
  
8. MIRU Drilling Rig
9. PU and RIH with 6 1/4" bit and dummy whipstock milling assembly and drill out cmt plug to 4300' if necessary. Condition hole/mud for milling.
10. RIH w/ whipstock assembly and MWD for orientation and set @ 4300'. Mill window and sidetrack casing. Continue milling until the upper mill is at least 5' out of the window. Circulate and condition mud for drilling ahead.
  - a. Monitor returns for casing cuttings. Install ditch magnets in the possum belly and after the shakers to catch all metal cuttings while milling. Clean the magnets at least once an hour.
  - b. If milling assembly doesn't appear to pass through the window correctly, run a second assembly w/ two watermelon string mills to clean up the window.

11. Make up and RIH w/ 6 1/8" Dir BHA and directionally drill to 4900' TD.
12. Circulate and condition mud, then wipe hole to casing. POOH
13. RIH to TD and condition well for logging. RU loggers and run logs per E&B geologist.
14. RD loggers and RIH to TD and check for fill.
15. PU 700' of 5 1/2" 17# J55(or better) liner with float shoe on bottom and RIH to TD.
16. RU cmtrs and cement liner in place. (Blend and procedure to be determined)
17. Release liner and POOH.
18. RDMO.

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**CURRENT WELBORE DIAGRAM**

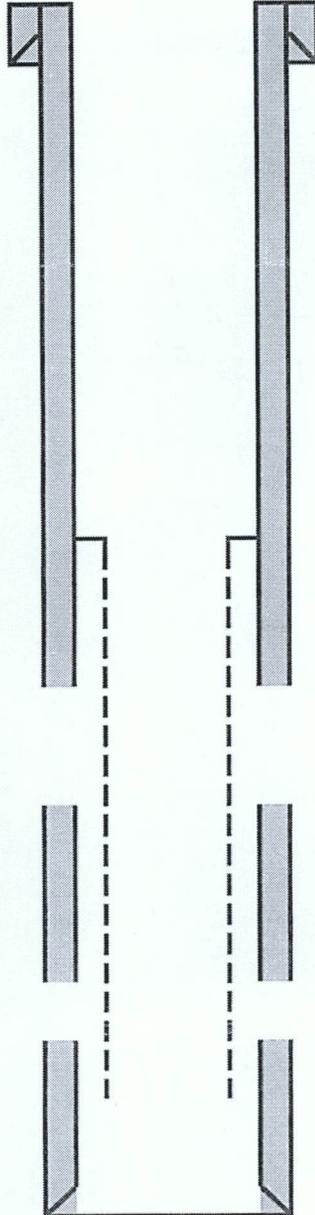
Field      Wilmington  
 County     LA  
 Lease      WNF-I  
 Well No.   #21  
 Location   19-4S-13W-SB  
 API No.    037-21445

Operator     E&B Natural Resources  
 Spud Date   4/12/1974  
 Completed   5/2/1974

Elevation:   11 KB  
               40' GL

Hole Size:  
 13 3/4" f/0' - 620'  
 9-7/8" f/620' - 4910"

Junk:  
 None



Casing:  
 10 3/4" 48# cmt'd @620' w/374sx

7", 23# Cmt'd @4910' w/ 853 cf  
 Calculated top of cmt @ 1685'

5", 18# WWS f/3726'-3925'  
 Perf. 3812'-3919' .0012 WWS  
 g.p.'d w/ 55 sx 20-40 gravel.

Cement details:  
 Cmt'd 7" csg with 653 cuft 1:1 Diamix 4% gel, 3 % CaCl2  
 followed by 300 cuft "G" w/ 3% CaCl2

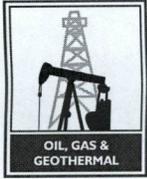
Windows Milled in 7" Casing f/ 4535'-4650' and 4730'-4750'

Comments:  
 Well was directionally drilled BH is 2548' North  
 and 56' East from Surface Location. TVD =  
 3895'

Prepared by: Joe  
 Ahlgrim 1/13/2012

TD @ 4910'  
 ED @ 4910'

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

FOR DIVISION USE ONLY		
Bond	Forms	
	OGD114	OGD121

## NOTICE OF INTENTION TO REWORK / REDRILL WELL

Detailed instructions can be found at: [www.conservation.ca.gov/dog/](http://www.conservation.ca.gov/dog/)

In compliance with Section 3203, Division 3, Public Resources Code, notice is hereby given that it is our intention to rework  / redrill  well (WNF-I #21) "Wnf-1" 21, API No. 037-21445, (Check one)

Sec. 19, T. 4S, R. 13W, SB B.&M., Wilmington Field, LA County.

The complete casing record of the well (present hole), including plugs and perforations, is as follows: (Attach wellbore schematics diagram also.)

See attached program.

The total depth is: 4911' feet.

The effective depth is: 4757' feet.

Present completion zone(s): Ranger (Name)

Anticipated completion zone(s): Ranger (Name)

Present zone pressure: 1350 psi.

Anticipated/existing new zone pressure: 1350 psi.

Is this a critical well as defined in the California Code of Regulations, Title 14, Section 1720(a) (see next page)? Yes  No

For redrilling or deepening only, is a California Environmental Quality Act (CEQA) document required by a local agency? Yes  No  If yes, see next page.

The proposed work is as follows: (A complete program is preferred and may be attached.)

See attached program.

If well is to be redrilled or deepened, show proposed coordinates (from surface location) and true vertical depth at total depth: 2548 feet North and 100 feet West Estimated true vertical depth: 4900' (Direction) (Direction)

Will the Field and/or Area change? Yes  No  If yes, specify New Field: \_\_\_\_\_ New Area: \_\_\_\_\_

The Division must be notified immediately of changes to the proposed operations. Failure to provide a true and accurate representation of the well and proposed operations may cause rescission of the permit.

Name of Operator E&B Natural Resources Management Corp.		
Address 1600 Norris Rd.	City/State Bakersfield, CA	Zip Code 93308
Name of Person Filing Notice Joe Ahlgrim	Telephone Number: (661) 679-1700	Signature 
Individual to contact for technical questions: Joe Ahlgrim	Telephone Number: (661) 679-1700	Date 3/23/12
		E-Mail Address: jahlgrim@ebresources.com

This notice and an indemnity or cash bond must be filed, and approval given, before the workover begins. (See the reverse side for bonding information.) If operations have not commenced within one year of the Division's receipt of the notice, this notice will be considered cancelled.

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**DRAFT SIDETRACK PROGRAM**  
**E&B NATURAL RESOURCES**

**API#: 037-21445**

**PERMIT #:**

**"WNF-I #21"**

**Present Condition**

**TD:** 4911'

**ED:** 4757'

**Surface:** 10 3/4" 40.5# H40 0'-620' cmt'd

**Casing:** 7" 23# K55 0'-4910' cmt w/ 853 cf.

Plugged to 4865', milled windows @ 4535'-4650', 4730'-4750'

**Liner:** 5 1/2" 17# J55 hung f/4451'-4772 g.p.'d w/ 6/9 gravel through port collars.

**Note:**

**PROCEDURE:**

1. MIRU Production Rig.
2. Unseat Injection packer and POOH laying down tubing.
3. PU and RIH w/ 7" casing scraper to TOL. Circulate well clean and turn over to lease water. POOH.
4. RIH oe to 4757'(ED). DOGGR to witness tag if necessary.
5. RU cementers and pump plug from TD to 4300'. WOC. Tag plug, DOGGR witness if required. If tag is below 4300', Repeat process.
6. Pressure test 7" casing to 1500 psi for 15 minutes. If casing does not pass notify Drilling Engineer. POOH laying down tubing.
7. RDMO Production Rig
  
8. MIRU Drilling Rig
9. PU and RIH with 6 1/4" bit and dummy whipstock milling assembly and drill out cmt plug to 4300' if necessary. Condition hole/mud for milling.
10. RIH w/ whipstock assembly and MWD for orientation and set @ 4300'. Mill window and sidetrack casing. Continue milling until the upper mill is at least 5' out of the window. Circulate and condition mud for drilling ahead.
  - a. Monitor returns for casing cuttings. Install ditch magnets in the possum belly and after the shakers to catch all metal cuttings while milling. Clean the magnets at least once an hour.
  - b. If milling assembly doesn't appear to pass through the window correctly, run a second assembly w/ two watermelon string mills to clean up the window.

52

11. Make up and RIH w/ 6 1/8" Dir BHA and directionally drill to 4900' TD.
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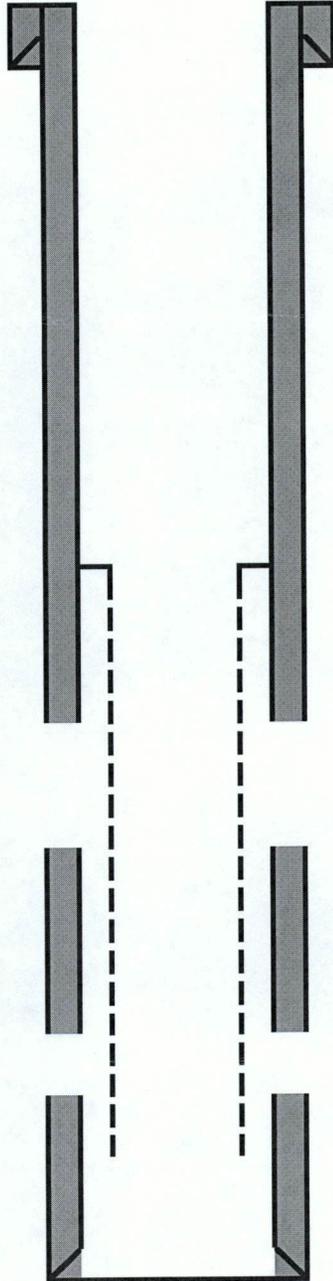
**CURRENT WELBORE DIAGRAM**

<b>Field</b>	Wilmington	<b>Operator</b>	E&B Natural Resources
<b>County</b>	LA	<b>Spud Date</b>	4/12/1974
<b>Lease</b>	WNF-I	<b>Completed</b>	5/2/1974
<b>Well No.</b>	#21		
<b>Location</b>	19-4S-13W-SB		
<b>API No.</b>	037-21445		

**Elevation:** 11 KB  
40' GL

**Hole Size:**  
13 3/4" f/0' - 620'  
9-7/8" f/620' - 4910'

**Junk:**  
None



**Casing:**  
10 3/4" 48# cmt'd @620' w/374sx

7", 23# Cmt'd @4910' w/ 853 cf  
Calculated top of cmt @ 1685'

5", 18# WWS f/3726'-3925'  
Perf. 3812'-3919' .0012 WWS  
g.p.'d w/ 55 sx 20-40 gravel.

**Cement details:**  
Cmt'd 7" csg with 653 cuft 1:1 Diamix 4% gel, 3 % CaCl2  
followed by 300 cuft "G" w/ 3% CaCl2

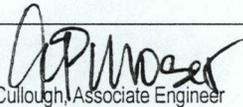
**Windows Milled in 7" Casing f/ 4535'-4650' and 4730'-4750'**

**Comments:**  
Well was directionally drilled BH is 2548' North  
and 56' East from Surface Location. TVD =  
3895'

Prepared by: Joe  
Ahlgrim 1/13/2012

TD @ 4910'  
ED @ 4910'

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
<p style="font-size: 24pt; font-weight: bold;">SEE ATTACHMENT</p>			
Name and location of well(s)			
SEE ATTACHMENT			
Description of the land upon which the well(s) is (are) located			
See Attachment			
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**

PA - Producing Active	FORM AND RECORD CHECK LIST					
NPA - No Potential Active	Form or record	Initials	Date	Form or record	Initials	Date
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.

49

# **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.**

48

# 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*

47

**DIVISION OF OIL AND GAS**

**Report on Operations**

**WATERFLOOD PROJECT**

Agnes T. List, Agent-XTRA ENERGY CORPORATION  
c/o 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" 21, API No. 037-21445,  
Sec. 19, T4S, R. 13W, S.B. B. & M. Wilmington Field, in Los Angeles County,  
were witnessed on 5-4-87. G. Chakmakian, Engineer, representative of  
the supervisor, was present from 1230 to 1400. There were also present G. Johns,  
(W.L.)

Present condition of well: 10-3/4" cem 620'; 7" cem 4910', cp 4530', perf 4528' WSO, milled  
4535'-4650' & 4730'-4750', 5 1/2" ld 4451'-4772', perf @ int 4461'-4757'. TD 4911'.

The operations were performed for the purpose of demonstrating that all of the injection fluid  
is confined to the formations below 4528'.

DECISION: APPROVED.

NOTE: DEFICIENCIES CORRECTED  
NONE

DEFICIENCIES TO BE CORRECTED  
NONE

UNCORRECTABLE DEFICIENCIES  
NONE

CONTRACTOR: Flo Log, Inc.

GC: mh

cc: Update

M. G. MEFFERD

State Oil and Gas Supervisor

*R.C. Manual*  
Deputy Supervisor

440

DIVISION OF OIL AND GAS  
WATER SHUTOFF TEST

5-22-87  
No. T 187-351

Operator Xtra Energy Corporation

Well designation "WNF-I" 21 Sec. 19, T. 4S, R. 13W, SB B.&M.

Field Wilmington, County LA was tested for water shutoff on 5/4/87. (Name) G. Chakmakian, representative of the supervisor, was present from 1230 to 1400. Also present were G. Johns (W.L.)

Casing record of well: 10 3/4" cem 620'; 7" cem 4910'; cp 4530'; perf 4528' wso, milled 4535'-4650' & 4730'-4750'; 5 1/2" id 4451'-4772'; perf @ int 4461'-4757'. TD 4911'.

The operations were performed for the purpose of (P) 4528

- 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 4528 ' at this time.

Hole size: \_\_\_\_\_ " fr. \_\_\_\_\_ ' to \_\_\_\_\_ ' ; \_\_\_\_\_ " to \_\_\_\_\_ ' ; & \_\_\_\_\_ " to \_\_\_\_\_ '.

Size	Casing			Cemented			Top of Fill		Sqd. Away	Final Press	Test psi/min. Perfs.
	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 920 B/D & 1440 psi on 5/4/ 1987,  
fluid confined below 4528 ' (Packer depth 4395 ')

Pick-up 4823 csg open

45

1287

DEFICIENCIES NOTED AND CORRECTED:

None

DEFICIENCIES NOTED AND TO BE CORRECTED:

None

UNCORRECTABLE DEFICIENCIES:

None

CONTRACTOR:

Flo Log, Inc

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

Company Xtra Energy Corp. Well No. "WNP-J" 21  
 API No. 037-21443 Sec. 19, T. 43, R. 13W, S.B. B.&M.  
 County Los Angeles Field Wilmington

<u>RECORDS RECEIVED</u>	<u>DATE</u>	<u>STATUS</u>	<u>STATUS</u>
Well Summary (Form OG100)		Producing - Oil	Water Disposal
History (Form OG103)	<u>5-14-84 (2)</u>	Idle - Oil	Water Flood <u>X</u>
Core Record (Form OG101)		Abandoned - Oil	Steam Flood
Directional Survey		Drilling - Idle	Fire Flood
Sidewall Samples		Abandoned - Dry Hole	Air Injection
Other		Producing - Gas	Gas Injection
Date final records received		Idle - Gas	CO <sub>2</sub> Injection <u>X</u>
Electric logs:		Abandoned - Gas	LPG Injection
		Gas-Open to Oil Zone	Observation
		Water Flood Source	
		DATE	
		RECOMPLETED <u>4-16-84</u>	
		REMARKS	

ENGINEER'S CHECK LIST

1. Summary, History, & Core record (dupl.)
2. Electric Log
3. Operator's Name
4. Signature
5. Well Designation
6. Location
7. Elevation
8. Notices
9. "T" Reports
10. Casing Record
11. Plugs
12. Surface Inspection
13. Production
14. E Well on Prod. Dir. Sur.

CLERICAL CHECK LIST

1. Location change (F-OGD165)
2. Elevation change (F-OGD165)
3. Form OGD121
4. Form OGD159 (Final Letter)
5. Form OGD150b (Release of Bond)
6. Duplicate logs to archives
7. Notice of Records due (F-OGD170)

UPDATE CENTER 6/29/84  
 RECORDS APPROVED William E. Brannon

RECORDS NOT APPROVED  
 Reason:

RELEASE BOND  
 Date Eligible  
 (Use date last needed records were received.)  
 MAP AND MAP BOOK 128 6/7/84

U

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 WNP-1 #21, Sec. 19, T. 4S, R. 13W, S.B. & M.  
A.P.I. No. 037-21445 Name John D. Carmichael Title Sr. Vice president  
Date May 9, 1984. (Person submitting report) (President, Secretary or Agent)

Signature John D. Carmichael

2501 Cherry Avenue Suite 270 Signal Hill CA 90806  
(Address)

(213) 424-8549  
(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	
4-3-84	<u>Convert to Injection.</u> MIRU.
4-4-84	Laid down rods and pump. Ran sinker bar and tagged bottom at 4772'. POH with tubing and gas anchor. Ran 7" scraper to <u>top of liner at 4451'</u> . Noted tight spots at 1808' and 3706'.
4-5-84	Laid down tubing and scraper.
4-6-84	Ran bell collar, xn-nipple, 1 jt 2-7/8" tbg, Otis 7" PRC pkr, 64 jts 2-7/8" tbg tested at 5000 psi.
4-7-84	Ran 71 more jts 2-7/8" tbg, x-nipple, 2 jts 2-7/8" tbg, pup tested at 5000 psi. All tbg coated inside. Set <u>pk</u> with <u>top at 4377'</u> . <u>Tbg hung at 4419'</u> .
4-8-84	IDLE
4-9-84	Unlatched from pkr and displaced annulus with chem treated water. Pressure test on annulus would bleed off. Pumped down tbg at 900 psi with no effect on annulus. Pumped 500 gal aromatic solvent down tbg. RDMO.
4-10-84 to 4-11-84	IDLE
4-12-84	MIRU. Service Co. ran and set plug in xn-nipple on wire line. Tbg tested to 1725 psi ok. Unset pkr, installed BOP and pulled injection equipment. Pkr looked good.
4-13-84	Ran Baker 7" Full Bore pkr and set at 4446'. Tbg tested on way in to 5000 psi ok. Tested annulus to 1000 psi ok and to 1350 psi ok. Unset pkr. Laid down tbg and pkr.
4-14-84 to 4-15-84	IDLE
	Ran injection equipment tested at 5000 psi with extra pup on top. Set <u>pk</u> with <u>top at 4381'</u> . Tbg hung to 4423'. Unlatched from pkr and displaced annulus with chem treated water. Latched into pkr and tested annulus at 1200 psi ok. RDMO.

1380ADNHN1220

RECEIVED

MAY 14 2 04 PM '84

DIVISION OF OIL AND GAS  
LONG BEACH, CA.

IDGE

IDGE

IDGE

IDGE

CONTRACT NO. 123456789

THIS DOCUMENT IS THE PROPERTY OF THE DIVISION OF OIL AND GAS, LONG BEACH, CALIFORNIA. IT IS LOANED TO YOU FOR YOUR INFORMATION AND USE ONLY. IT IS NOT TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM, WITHOUT THE WRITTEN PERMISSION OF THE DIVISION OF OIL AND GAS.

2001 SPECTRA VALUING STATE OIL AND GAS REPORT

Date	1984	1984	1984	1984	1984	1984	1984
BY	...	...	...	...	...	...	...
FOR	...	...	...	...	...	...	...
BY	...	...	...	...	...	...	...
FOR	...	...	...	...	...	...	...

DIVISION OF OIL AND GAS  
CALIFORNIA  
LONG BEACH, CALIFORNIA

4

Well #21 Continued:

4-16-84 On Water Injection. 1666 B/D @ 1800 psi.

4-18-84 WAGD to CO<sub>2</sub> Injection 660 MCF/D @ 1680 psi.

RECEIVED

MAY 14 2 04 PM '84

DIV. OF OIL AND GAS  
LONG BEACH, CA.

4-18-84  
4-18-84

39



DIVISION OF OIL AND GAS

rework  
3  
2-21-84  
CONVERSION

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
Blanket	2-22-84 CP	2-22-84 CP

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 #21, API No. 037-21445  
*(Well designation)*  
Sec. 19, T. 4S, R. 13W, S.B. & M., Wilmington Field, Los Angeles County.

The present condition of the well is as follows:

- Total depth 4911'
- Complete casing record, including plugs and perforations  
 10 3/4", 43#, H-40, 620'  
 7", 23#, K-55, 4910', plugged 4865'  
 milled windows 4535'-4650' & 4730'-4750'  
 5 1/2", 17#, J-55, 4451'-4772'  
 perf'd 4461'-4757' at intervals
- Present producing zone name Ranger; Zone in which well is to be recompleted Ranger
- Present zone pressure 1350 ± psi; New zone pressure ---
- Last produced - Now producing 18 14 ---  
 (Date) (Oil, B/D) (Water, B/D) (Gas, Mcf/D)  
 (or)  
 Last injected \_\_\_\_\_  
 (Date) (Water, B/D) (Gas, Mcf/D) (Surface pressure, psig)

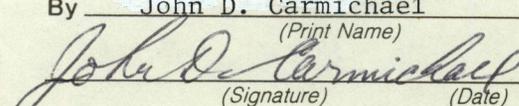
The proposed work is as follows:

Rework and convert to "WAG" injection:

- Pull production equipment,
- Scrape and C.O. to 4757',
- Test and land injection tubing @ 4420+, with pkr set @ 4385+.
- Test and displace annulus with treated water.
- Aromatic soak and place on water injection first.

**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)*  
  
*(Signature)* 2-15-84  
*(Date)*

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RECEIVED

FEB 17 3 28 PM '84

DIV OF OIL AND GAS  
LONG BEACH, CA.

- (1) ...
- (2) ...
- (3) ...
- (4) ...
- (5) ...

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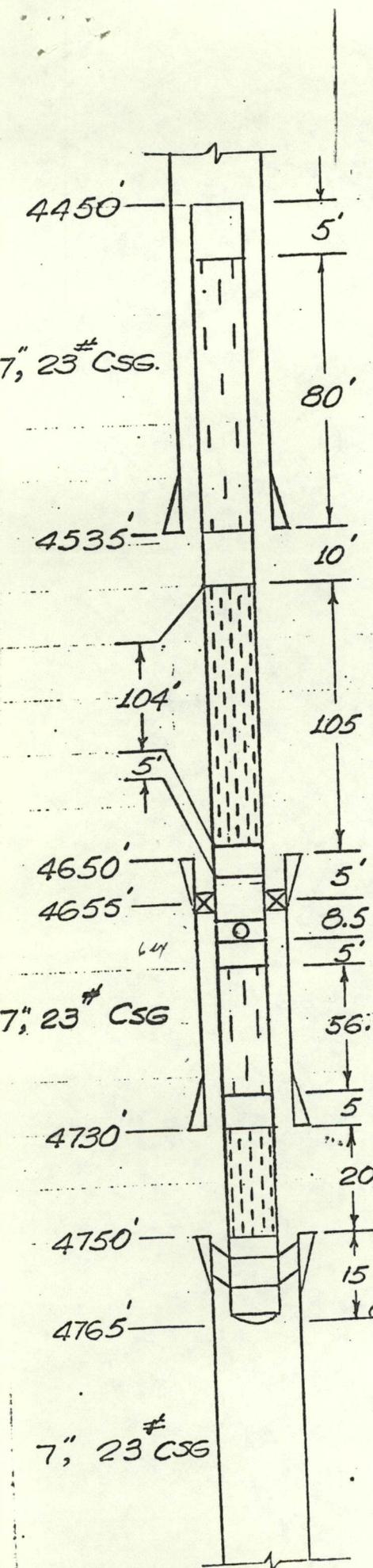
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... OF ...

DIVISION OF OIL AND GAS

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... OF ...



5 1/2", 17, # J-55, BLANK CASING. SFJ BOX UP

5 1/2" AS ABOVE, PERFORATED 2" X 40 MESH. MACHINE CUT SLOTS, 4 ROWS, 24" CENTERS ALL SFJ. WELD 4 SETS CENTRALIZING FINIS

5 1/2", AS ABOVE, BLANK CASING. 8-RD, LT&C PIN DOWN.

5 1/2", AS ABOVE, PERFORATED 2" X 40 MESH. MACHINE CUT SLOTS, 20 ROWS, 6" CENTERS. ALL 8-RD. LT&C WITH TURNED DOWN COLLARS BOTTOM 5' TO BE BLANK WITH LT&C PIN DOWN

5 1/2" B&W RECIPRO-SET, NEOPRENE SEAL LINER HANGER & PORT COLLAR. LT&C BOX UP & DOWN HANGING DEPTH CONTROL: CENTER OF SEAL @ 4655'

5 1/2" CSG. AS ABOVE, PERF'D 2" X 40M - 4R - 24" ALL SFJ. WELD 3 SETS CENTRALIZING FINIS

5 1/2" BLANK CSG

5 1/2" CSG AS ABOVE, PERF'D 2" X 40M - 20R - 6" C. 8-RD LT&C PIN DOWN

5 1/2" BLANK PUP WITH 8-RD LT&C, TURNED DOWN COLLAR UP & B&W DRILLABLE SHOE ON BOTTOM FITTED WITH 2, B&W, VRC CEMENT BASKETS.



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

M. G. MEFFERD, State Oil and Gas Supervisor

By Richard C. Manuel

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

OLD	NEW	API
"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

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

**REPORT OF PROPERTY AND WELL TRANSFER**

Field or county <b>Wilmington</b>		District <b>1</b>												
Former owner <b>Argo Petroleum Corp.</b>		Date <b>September 30, 1981</b>												
Name and location of well(s) <table border="0" style="width:100%"> <tr> <td style="width:50%"><b>Sec. 19-4S-13W</b></td> <td style="width:50%"><b>Sec. 19-4S-13W</b></td> </tr> <tr> <td>"American Can" 1 (037-21433)</td> <td>"Purex Unit" 2 (037-21753)</td> </tr> <tr> <td>"American Can" 2 (037-21664)</td> <td>"Purex Unit" 3 (037-21754)</td> </tr> <tr> <td>"American Can" 3 (037-21768)</td> <td>"Sanitation Unit" (037-21445)</td> </tr> <tr> <td>"Dasco Unit" 1 (037-21671)</td> <td>"Shell Unit" 1 (037-21729)</td> </tr> <tr> <td>"Purex Unit" 1 (037-21669)</td> <td>"Shell Unit" 2 (037-21769)</td> </tr> </table>			<b>Sec. 19-4S-13W</b>	<b>Sec. 19-4S-13W</b>	"American Can" 1 (037-21433)	"Purex Unit" 2 (037-21753)	"American Can" 2 (037-21664)	"Purex Unit" 3 (037-21754)	"American Can" 3 (037-21768)	"Sanitation Unit" (037-21445)	"Dasco Unit" 1 (037-21671)	"Shell Unit" 1 (037-21729)	"Purex Unit" 1 (037-21669)	"Shell Unit" 2 (037-21769)
<b>Sec. 19-4S-13W</b>	<b>Sec. 19-4S-13W</b>													
"American Can" 1 (037-21433)	"Purex Unit" 2 (037-21753)													
"American Can" 2 (037-21664)	"Purex Unit" 3 (037-21754)													
"American Can" 3 (037-21768)	"Sanitation Unit" (037-21445)													
"Dasco Unit" 1 (037-21671)	"Shell Unit" 1 (037-21729)													
"Purex Unit" 1 (037-21669)	"Shell Unit" 2 (037-21769)													
Description of the land upon which the well(s) is (are) located														
Date of transfer, sale, assignment, conveyance, or exchange <b>8-12-81</b>	New owner <b>Xtra Energy Corporation</b> Address <b>717 Walton Street Signal Hill, CA 90806</b>	Type of organization <b>Corporation</b> Telephone No. <b>213/424-8549</b>												
Reported by <b>Letter from Argo Petroleum Corp. dated August 13, 1981.</b>														
Confirmed by <b>OGD30 dated September 25, 1981.</b>														
New operator new status (status abbreviation) <b>PA</b>	Request designation of agent <b>John D. Carmichael 717 Walton St., Signal Hill, CA 90806</b>													
Old operator new status (status abbreviation) <b>PA</b>	Remarks													

<b>OPERATOR STATUS ABBREVIATIONS</b>	Deputy Supervisor <b>R. A. YBARRA</b>	Signature <i>Richard W. Stella</i>
--------------------------------------	--	---------------------------------------

	FORM AND RECORD CHECK LIST					
	Form or record	Initials	Date	Form or record	Initials	Date
PA - Producing Active						
NPA - No Potential, Active						
PI - Potential Inactive	Form OGD121	CP	10-5-81	Map and book	WEB	1/26/82
NPI - No Potential, Inactive	Form OGD148	CP	10-5-81	Notice to be cancelled		
Ab - Abandoned or No More Wells	New well cards	CP	10-5-81	Bond status		
	Well records	CP	10-1-81	EDP files		
	Electric logs	CP	10-6-81	Update Center		
	Production reports			Conservation Committee		
				Dept. of Oil Properties		
				L. A. County Assessor		

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:

Sec.	Old Designation	API No.	New Designation
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 T. MATTHEWS, JR.**  
State Oil and Gas Supervisor

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

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

Company ARGO PETROLEUM CORP Well No. "AMERICAN CAN" 2  
 API No. 037-21445 Sec. 19, T. 4S, R. 13W, S13 B.&M.  
 County L.A. Field WILMINGTON

<u>RECORDS RECEIVED</u>	<u>DATE</u>
Well Summary (Form OGD100)	<u>6-1-77</u>
History (Form OGD103)	<u>6-1-77</u>
Core Record (Form OGD101)	
Directional Survey	
Sidewall Samples	
Other	
Date final records received	
Electric logs:	

<u>STATUS</u>	<u>STATUS</u>
Producing - Oil <input checked="" type="checkbox"/>	Water Disposal <input type="checkbox"/>
Idle - Oil <input type="checkbox"/>	Water Flood <input type="checkbox"/>
Abandoned - Oil <input type="checkbox"/>	Steam Flood <input type="checkbox"/>
Drilling - Idle <input type="checkbox"/>	Fire Flood <input type="checkbox"/>
Abandoned - Dry Hole <input type="checkbox"/>	Air Injection <input type="checkbox"/>
Producing - Gas <input type="checkbox"/>	Gas Injection <input type="checkbox"/>
Idle - Gas <input type="checkbox"/>	CO2 Injection <input type="checkbox"/>
Abandoned - Gas <input type="checkbox"/>	LPG Injection <input type="checkbox"/>
Gas-Open to Oil Zone <input type="checkbox"/>	Observation <input type="checkbox"/>
Water Flood Source <input type="checkbox"/>	
DATE	
RECOMPLETED <u>3-24-77</u>	
REMARKS	

ENGINEER'S CHECK LIST

1. Summary, History, & Core record (dupl.)
2. Electric Log
3. Operator's Name
4. Signature
5. Well Designation
6. Location
7. Elevation
8. Notices
9. "T" Reports
10. Casing Record
11. Plugs
12. Surface Inspection
13. Production
14. E Well on Prod. Dir. Sur.

CLERICAL CHECK LIST

1. Location change (F-OGD165)
  2. Elevation change (F-OGD165)
  3. Form OGD121
  4. Form OGD159 (Final Letter)
  5. Form OGD150b (Release of Bond) 6/14/77 aw
  6. Duplicate logs to archives
  7. Notice of Records due (F-OGD170)
- Sent to LB Blueprint 6-24-77*

Bond # 5765674

RECORDS NOT APPROVED

Reason: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

RECORDS APPROVED NS

RELEASE BOND yes

Date Eligible 6/1/77  
 (Use date last needed records were received.)

MAP AND MAP BOOK NC

DIVISION OF OIL AND GAS

WELL SUMMARY REPORT  
SUBMIT IN DUPLICATE

Operator ARGO PETROLEUM CORPORATION, Well No. AMERICAN CAN #2 RD, API No. 037-21445,  
Sec. 19, T. 4S, R. 13W, SB B. & M., WILMINGTON Field, LOS ANGELES County.  
Location 205' N & 164' E of Center Line Intersection of AT & SF Railway &  
Main Street. (Give surface location from property or section corner, or street center line and/or lambert coordinates)  
Elevation of ground above sea level 40 feet.

All depth measurements taken from top of D.B. which is 11 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 April 22, 1977  
E.P.L.  
Edgar P. Lyons, Jr.  
(Engineer or Geologist)

Signed Cecil O. Basenberg  
Cecil O. Basenberg  
Title Executive Vice President

Re	GEOLOGICAL MARKERS	DEPTH
Commenced drilling <u>2/7/77</u>	"F"	4543
Completed drilling <u>2/28/77</u>		
Total depth (1st hole) <u>4911</u> (2nd) <u>---</u> (3rd) <u>---</u>		
Present effective depth <u>4865' cement plug</u>		
Junk <u>None</u>		

Formation and age at total depth Pliocene (Repetto)  
Name of producing zone Ranger

Commenced producing 3/24/77 Flowing/gas lift/pumping  
(Date) (Cross out unnecessary words)

Initial production  
Production after 30 days

Clean Oil bbl. per day	Gravity Clean Oil	Per Cent Water including emulsion	Gas Mcf. per day	Tubing Pressure	Casing Pressure
0	-	100	0	100	50
16	13.5	30	0	100	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
10 3/4"	620	0	43	H-40	New	13 3/4"	334	--
7"	4910	0	23	K-55, LT&C	New	9 7/8"	853	--
5 1/2"	4772	4451	17	J-55, LT&C	Used	13"	Not cmtd.	

PERFORATED CASING

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

4461'-4541', 5 1/2" L. Perf'd 2" X 40M Mach. cut slots, 4 Rows, 24" ctrs.  
4551'-4655', 5 1/2" L. Perf'd 2" X 40M Mach. cut slots, 20 Rows, 6" ctrs.  
4676'-4732', 5 1/2" L. Perf'd 2" X 40M Mach. cut slots, 4 Rows, 24" ctrs.  
4737'-4757', 5 1/2" L. Perf'd 2" X 40M. Mach. cut slots, 20 Rows, 6" ctrs.  
Was the well directionally drilled? yes If yes, show coordinates at total depth See orig. well history

Electrical log depths 4916' Other surveys See orig. history

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 DIV. OF OIL AND GAS  
 LONG BEACH, CA.

Well No.	Depth of Well	Depth of Cement	Depth of Cement	Depth and Type of Cement	Final Depth	Final Depth	Final Depth
1	0184	0	33	K-23' CONC	NEW	2 1/8	823
2	020	0	34	H-40	NEW	1 3/4	334

Summary Record (Present Hole)

Production after 30 days	10	13.2	30	0	100	20
Initial Production	0	-	100	0	100	20
Oil	0	-	100	0	100	20
Water	0	-	0	0	0	0

Commenced producing (Date) 5/24/77 (Cross out unnecessary entries)  
 Name of producing zone Upper  
 Formation Flintstone (Kobukko)

Present effective depth 882'  
 Total depth (in hole) 920'  
 Completed casing 5 1/2"  
 Commenced casing 5 1/2"

Date received 5/22/77  
 Name of operator AMERICAN OIL & GAS CO.

All depth measurements taken from top of D.B. which is 11' feet above ground.

Elevation of ground above sea level 80'

Location 202' N 2 1/2' E of center line intersection of V.R. & SE 1/4 Sec 14

Operator AMERICAN OIL & GAS CO. Well No. AMERICAN OIL #5 3D V.B.I. No. 031-51442

DIVISION OF OIL AND GAS

History of Oil or Gas Well

OPERATOR ARGO PETROLEUM CORPORATION FIELD Wilmington

Well No. AMERICAN CAN #2, Sec. 19, T. 45, R. 13W, S. B. B. & M.

Date April 22, 19 77 Signed C. Basurto

940 East Santa Clara  
Ventura, Ca. 93001 (805) 648-2514 Title Executive 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  
1977

- 2/7 9 Camrich Drilling Company Rig #3 MIRU.  
Started operations at 4:00 P.M.  
Installed BOPE and flanged up.
- 2/8 Picked up 3½" D.P. RIH W/6¼" bit and 7" csg. scraper. Conditioned mud and scraped csg. to 4700'. Cleaned out fill to 4807'. POH.
- 2/9 RIH W/Johnston 7" ret. bridge plug and set at 4515'. Tested pipe rams and Hydril W/1350 PSI, OK Tested 7" csg. W/1500 PSI, OK Ret. B. P. POH.
- 2/10 RIH W/Tri-State 7" x 8¼" section mill. Milled 7" csg. F/4730' to 4750" POH. RIH W/Tri-State junk mill. C.O. to 4865'.
- 2/11 POH. RIH W/Tri-State 6" x 13" H.O. Opened hole to 13" F/4730-4750" POH. RIH W/Lockmatic csg. mill. Milled csg. F/4535'-4563'.
- 2/12 Milled F/4563-4601'.
- 2/13 Milled F/4601-4625'. POH. RIH W/junk mill.
- 2/14 C. O. to 4865'. POH. RIH W/section mill. Reamed F/4584-4625', milled 7" csg. to 4635'.
- 2/15 Milled to 4642'. POH. RIH W/5 5/8" junk mill. C.O. F/4644-4674', ran in to 4858', C.O. to 4865'. POH.
- 2/16 RIK W/Lockmatic mill. Milled F/4642-4650', POH, RIH W/Tri-State 6" x 13" H.O. Opened hole to 13" to 4642'.
- 2/17 POH. RIH W/6 1/8" junk mill to 4650'. Could not get into stub.  
POH. RIH w/6¼" tapered mill. Reamed from 4642'-4865'. POH.

RECEIVED  
JUN 1 10 1977  
24

RECEIVED

JUN 1 10 49 AM '77

S\18 BOH M\111-2496 JOCKWATC SEC\* WTTT\* BOH\* DIV. OF OIL AND GAS E\4423-4420\* BOH\*

S\19 BOH\* BOH M\111-2496 JOCKWATC WTTT\* BOH\* DIV. OF OIL AND GAS E\4423-4420\* BOH\*

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Date

of cement used, top and bottom of bridge, perforation details, sidetracked hole, casing logs and initial production data.  
 or changing the casing, bridging, or abandonment with the dates thereof. Include such items as hole size, formation log details, amount  
 History must be complete in all details. Use this form to report all operations during drilling and testing of the well or during reworking

(Address) (Telephone Number) (Responsible Secretary or Agent)

AMERICAN OIL & GAS COMPANY (802) 548-2124 THE EXECUTIVE VICE PRESIDENT

440 EAST 200TH STREET

Date APR 22, 1977 Signed *[Signature]*

Well No. AMERICAN OIL & GAS #3 Sec. 16 T. 48 N. 13M S. B. B. & M.

OBSERVATOR ARCO PETROLEUM CORPORATION FIELD REPRESENTATIVE

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. AMERICAN CAN #2, Sec. 19, T. 4S, R. 13W, S.B. B. & M.  
Date April 22, 1977 Signed C. Bascher  
940 East Santa Clara  
Ventura, CA. 93001 (805) 648-2514 Title Exec. Vice-Pres.  
(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>1977</u> |  |
| 2-18        | RIH w/Tri-State lockmatic sec. mill. Re-milled f/4642'-4650'. POH. RIH w/6"x13" HO. Re-gauge hole 4730'-4750'. POH.  |
| 2-19        | RIH w/6 1/4" tapered mill to 4645'. Worked mill down to 4745'. Reamed to 4753'. Milled to 4865'. POH. Picked up 10 jts 2 7/8" tbg. RIH to 4730'. Tagged fill at 4826', CO to 4865'. Circ clean.  |
| 2-20        | POH. Ran 8 jts, 5 1/2", 17#, J-55 ST&C and SFJ used liner. Liner stopped at 3280'. Unable to work lower. POH. Laid down liner. Lower slots plugged w/steel cuttings. RIH w/6 1/4" Servco tapered mill to 4645'. Reamed thru to 4670'. Ran in to 4844'. CO to 4865'. POH. |
| 2-21        | RIH w/10 jts 2 7/8" Tbg on DP to 4535'. Chg'd over to Ken-X. RIH to 4852'. CO to 4865'. POH.   |
| 2-22        | RIH w/8 jts, 5 1/2", 17#, J-55 LT&C and SFJ liner to 4770'. Could not set B&W packer. POH. Found J-slot sleeve stuck w/fine steel cuttings. Laid down liner. RIH w/6 1/4" Servco tapered mill to 4743'. CO to 4851'. POH.  |
| 2-23        | RIH w/10 jts 2 7/8" tbg tail on 3 1/2" DP. Backscuttled hole clean at 4851'. POH. Ran 8 jts, 5 1/2", 17#, J-55 LT&C and SFJ Sumitomo liner to 4772', B&W hook-wall pkr at 4668'. Liner detail as follows:  |
|             | 4772'-4757' Blank  |
|             | 4757'-4737' 2"x40m, 6"C, 20R, slots  |
|             | 4737'-4732' Blank  |
|             | 4732'-4676' 2"x40m, 24"C, 4R, slots  |
|             | 4676'-4671' Blank  |
|             | 4671'-4668' Port collar  |
|             | 4668'-4660' B&W hook-wall pkr.   |
|             | 4660'-4655' Blank  |
|             | 4655'-4551' 2"x40m, 6"C, 20R, slots  |

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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. AMERICAN CAN #2, Sec. 19, T. 4S, R. 13W, S.B. B. & M.  
Date April 22, 1977 Signed [Signature]  
940 East Santa Clara  
Ventura, CA. 93001 (805) 648-2514 Title Exec. Vice-Pres.  
(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>1977</u> |   |
| <u>2-23</u> | 4551'-4541' Blank   |
| cont        | 4541'-4461' 2"x40M, 24"C, 4R, slots   |
|             | 4461'-4456' Blank   |
|             | 4456'-4453' Port collar   |
|             | 4453'-4451' Burns top sub   |
|             | Liner equip w/B&W bullnose shoe + B&W baskets on shoe jt & hook-wall pkr. Tested pkr @ 300 psi. OK. POH.  |
| <u>2-24</u> | RIH w/Burns gravel packing tools. Opened port collar at 4668'. Pumped in 8 sx gravel, press built to 1000psi. BS 2 sx. Closed port collar & tested @ 750 psi. POH. RIH & set lead seal adaptor @ 4447' & tested. OK   |
| <u>2-25</u> | Pumped in 68 sx 6/9 gravel. Press built to 750 psi. Closed port collar & tested. OK.  |
| <u>2-26</u> | POH. RIH w/Burns 5½" washer to 4737'. Could not wash w/rig pump. Rigged up Halliburton. Washed perms 4655'-4551', 4461'-4541', 4757'-4737', 4732'-4676'.  |
| <u>2-27</u> | PU to 4448' and chg'd over to lse H2O. Re-washed perms w/rig pump at 750 psi. POH.  |
| <u>2-28</u> | RIH w/Burns gravel pack tools. Opened PC at 4668'. Gravel pack w/22 cu. ft. 6/9 gravel. Total gravel in place = 90 cu. ft. Backscuttled w/no gravel returns. Ran in to 4770'. (No fill). POH & laid down 3½" DP and gravel pack tools. RIH w/11 jts 2 7/8" tbg and landed on donut. Removed BOPE. Released rig at 8:00PM. |
| <u>3-1</u>  | Moving out rig.   |
| <u>3-2</u>  | WO production hoist.  |
| to          |   |
| <u>3-7</u>  |   |

GONG BEACH CA  
DIV. OF OIL AND GAS  
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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. AMERICAN CAN #2, Sec. 19, T. 4S R. 13W, S.B. B. & M.

Date April 22, 1977 Signed C. Boerhaeg

940 East Santa Clara  
Ventura, CA. 93001 (805) 648-2514 Title Exec. Vice-Pres.  
(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

1977

3-8 MIRU Ideal Oilwell Service. Pulled 2 7/8" tbg. Ran sinker bar on WL., tagged bottom at 4768'. (No fill). Started in hole w/2 7/8" tbg.

3-9 Landed tbg at 4396'. pump shoe at 4365'. Ran pump and rods. Spaced well. Moved out.

LONG BEACH CA  
DIV. OF OIL AND GAS  
JUN 1 10 AM '77  
RECEIVED

20

RECEIVED

JUN 1 10 49 AM '77  
DIV. OF OIL AND GAS  
LONG BEACH, CA.

3-2

Spaced well. Moved out.  
Landed pipe at 4300'. Pump shoe at 4302'. Ran pump and rods.

3-8

note w/ 2 1/8" pipe.  
ran on MG. Landed bottom at 4308'. (no fill). Started in  
with ideal oilwell service. Ratted 2 1/8" pipe. Ran stringer

DATE

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

(Address) (Telephone Number) (President, Secretary or Agent)

VENTURA, CA. 93001 (805) 648-3214 THE EXEC. VICE-PRES.  
440 EAST SANTA CLARA

Date APRIL 22, 1977 Signed *[Signature]*

WELL NO. AMERICAN CAS #5 Sec. 18, T. 4S, R. 13W S.B. B & M.

OBSERVER ARGO BELBOGHEUN CONSERVATION FIELD MIDDLETOWN

History of Oil or Gas Well

DIVISION OF OIL AND GAS

DEPARTMENT OF CONSERVATION  
REGULATORY AGENCY OF CALIFORNIA

SUBMIT IN DUPLICATE

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

**Report on Operations**

SEC. 3606 WELL

No. T 177-170

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

Long Beach, Calif.  
March 10, 1977

DEAR SIR:

Operations at well No. "American Can" 2, API No. 037-21445, Sec. 19, T. 4S, R. 13W,  
S.B., B & M. Wilmington Field, in Los Angeles County, were witnessed  
on 2/9/77. Mr. G. W. Stark, Engineer, representative of the supervisor was  
present from 1900 to 2000. There were also present R. Kahle, Drilling Foreman.

Present condition of well: 10-3/4" cem. 620'; 7" cem. 4910', cp 4530', perf. 4528', WSO,  
perfs. at intervals 4582'-4747'. T.D. 4910'. Effec. depth 4823'.

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

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

GWS:d

M. G. MEFFERD, Acting Chief

~~JOHN O'BRYEN, Supervisor~~  
~~XXXXXXXXXXXXXXXXXXXX~~

18 By M. B. Albright Deputy

DIVISION OF OIL AND GAS

REPORT ON PROPOSED OPERATIONS No. P 177-97  
SEC. 3606 WELL

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

Long Beach, Calif.  
Feb. 11, 1977

DEAR SIR:

Your proposal to alter casing Well No. "American Can" 2 (037-21445)  
Section 19, T. 4S, R. 13W, S.B.B. & M., Wilmington Field, Los Angeles County,  
dated 2/8/77, received 2/9/77, has been examined in conjunction with records filed in this office.

NOTE: 7" cp 4530'.

THE PROPOSAL IS APPROVED PROVIDED:

1. A COPY OF THIS APPROVAL SHALL BE POSTED AT THE WELL SITE PRIOR TO COMMENCING OPERATIONS.
2. Blowout prevention equipment, conforming to this Division's Class III requirements, shall be installed and maintained in operating condition at all times.
3. THIS DIVISION SHALL BE NOTIFIED TO WITNESS A TEST OF THE INSTALLED BLOWOUT PREVENTION EQUIPMENT PRIOR TO MILLING THE 7" CASING.

VFG:d

Bond No. 5765674  
Dated 2/9/77

M. G. MEFFERD, Acting Chief  
JOHN F. MATTHEWS, Jr., State Oil and Gas Supervisor

By *M. B. Wright*, Deputy

**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.

*Rework*

FOR DIVISION USE ONLY		
BOND	FORMS	
	114	121
5765674 2-9-77	✓	✓

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 No. AMERICAN CAN NO. 2, API No. 037 21445, Sec. 19, T. 4S, R. 13W SBB. & M., WILMINGTON Field, LOS ANGELES County.

The present condition of the well is as follows:

- Total depth. 4911'
- Complete casing record, including plugs and perforations:  
10 3/4", 43#, H-40 CMTD @ 620'.  
7", 23#, K-55, LT&C CMTD @ 4910'. PLGD. WITH CEMENT FROM 4910' to 4823'. W.S.O. @ 4528'.  
PERFS: 2,0.44" jet holes @ ea. of following depths:  
4747', 4745', 4640', 4636', 4634', 4631', 4626'  
4622', 4618', 4616', 4584', 4582'.

- Present producing zone name RANGER Zone in which well is to be recompleted RANGER
- Present zone pressure 1000 psi New zone pressure 1000 psi
- Last produced JUNE 1974 0 13 0  
(Date) (Oil, B/D) (Water, B/D) (Gas, Mcf/D)  
 or
- Last injected \_\_\_\_\_  
(Date) (Water, B/D) (Gas, Mcf) (Surface pressure, psig.)

The proposed work is as follows:

Plug 7" casing with cement to 4755'. Mill out sections of 7" casing from 4535' to 4650' and from 4730' to 4750'. Open 9 7/8" hole opposite milled sections to 13". Run combination 4 1/2" & 5 1/2" slotted liner. Hang liner from 4450' to 4755'. Gravel pack liner, run tubing, pump & rods, place well on production.

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

Address 10880 Wilshire Blvd., #1003 Argo Petroleum Corporation  
(Street) (Name of Operator)  
Los Angeles, California 90024 By Annis J. Frankel 2/8/77  
(City) (State) (Zip) (Name) (Date)  
 Telephone Number 213/475 4976 Type of Organization Corporation  
(Corporation, Partnership, Individual, etc.)

Telephone Number (City) (State) (Zip) (Date)  
 Type of Organization (Name) (Address)  
 Address (City) (State) (Zip)

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FEB 9 1 39 PM '77

DIV. OF OIL AND GAS  
LONG BEACH, CA.

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

The proposed work is as follows:

	(Date)	(Miles' BVD)	(Cwt' MCD)	(Zones' Present' BVD)
1. Last injected				
2. Last produced				
3. Present zone pressure				
4. Present producing zone name				

5. Complete stratigraphic record, including logs and perforations:  
 Total depth: \_\_\_\_\_  
 The present condition of the well is as follows:  
 Section \_\_\_\_\_  
 Intention to rework well No. \_\_\_\_\_  
 In compliance with Section 3503, Division 3, Public Resources Code, notice is hereby given that it is our  
 DIVISION OF OIL AND GAS

	114	131
BOND	E08W2	
FOR DIVISION USE ONLY		

This notice and intention to rework well shall be filed with the Division of Oil and Gas before any work is commenced on the well.

Notice of Intention to Rework Well  
DIVISION OF OIL AND GAS

WORK PERFORMED:

Drill  Redrill  Deepen

Plug  Alter casing

Water flood  Water disposal

Abandon

Other

RT

STATUS: (Date)

Producing 5/25/74

Recomp. prod.

Water flood

Water disposal

Abandoned

Other

MAP AND BOOK Do not enter yet.  
WAIT FOR PROD. Repts

RECORDS FILED & DATE:

Clerk mu 9/25/74

RECORDS & REQUIREMENTS CHECKED: Eng. PK

Summary (dup.)

Log & Core (dup.)

History (dup.) 9/25/74

E-log 3803-4803 9/25/74

Radio log 613-49081 9/25/74

D. Survey 191-4911' 8/2/74

Other Mud log? 9/25/74

(Check records for signature and correct name of operator or well, S.T.R. and field.)

Surface inspection HOLD IN ACTIVE FOR PROD. ON  
Data needed Summary History Clerk: 110'S

Location  Notice states

Request records J E-log F 170 af

Correct records  (Specify)  F 165  
105A

CARDS

Elevation  Notice states

BOND: Blanket

Hold  Reason

Release  Date Elig.  F 150b

End Premium year   
Release requested  (Check)  
Bond superseded  (one)  
Well abandoned

Production Reports

(If production reports not received, make notation and inform Sr. Steno. when rec'd.)

FINAL LETTER  F 159

and FILE CLEARED  F 121

If stimulation or disposal well:  
Form 121  Folder

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

**WELL SUMMARY REPORT**  
SUBMIT IN DUPLICATE

Operator Argo Petroleum Corporation, Well No. AMERICAN CAN # 2, API No. 037-21445,  
Sec. 19, 4S, R. 13W, S.B.B. & M., Wilmington Field, Los Angeles County.  
Location 130' N & 124' E from SW corner of fenced property or 205' N & 164' E of  
(Give surface location from property or section corner, or street center line and/or Lambert coordinates)  
centerline intersect. of AT&SF railway & Main Street. Elevation of ground above sea level 40 feet.

All depth measurements taken from top of K. B. 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 September 6, 1974

Signed C. B. Graham

B. L. Graham  
(Engineer or Geologist)

Title Vice-President

	GEOLOGICAL MARKERS	DEPTH
Commenced drilling <u>4-12-74</u>		
Completed drilling <u>5-2-74</u>		
Total depth (1st hole) <u>4911'</u> (2nd) _____ (3rd) _____		
Present effective depth <u>4823'</u> (Cmt. plug)		
Junk _____		

Commenced producing 5/30/74 ~~XXXXXXX~~ Flowing/gas lift/pumping (Date) (Cross out unnecessary words)  
Formation and age at total depth Pliocene (Repetto)  
Name of producing zone Ranger

Initial production

Production after ~~30~~ 6\* days

	Clean Oil bbl. per day	Gravity Clean Oil	Per Cent Water including emulsion	Gas Mcf. per day	Tubing Pressure	Casing Pressure
Initial production	25	16.0	20	0	100	0
Production after <u>6*</u> days	21	16.0	16	0	100	0

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
<u>10 3/4"</u>	<u>620</u> <sup>16</sup>	0	43	H-40	New	<u>13 3/4"</u>	<u>334</u> <u>CF</u>	--
<u>7"</u>	<u>4910</u>	0	23	K-55 LT&C	New	<u>9 7/8"</u>	<u>853</u> <u>CF</u>	--

PERFORATED CASING

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

2 - Jet holes/ft @ following intervals: 4747', 4745', 4640', 4636', 4634', 4631', 4626', 4622', 4618', 4616', 4584', 4582'.

4 - WSOK, 1/2" holes at 4528'.

Was the well directionally drilled? YES If yes, show coordinates at total depth Closure: 2548.05' N 0° 56' W

Electrical log depths 4916' Other surveys CFDL, CBL-GAMMA, FM. FACT.-CALIPER

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DIV. OF OIL AND GAS  
LONG BEACH, CA.

(State of California Department of Conservation and Mineral Resources)

Well No.	Depth of Well	Depth of Completion	Well Name	County and Type of Well	Operator	Field	Section	Block	Tract
11	4870	0	K-22 TLEO	HEA	8 1/8"	823	1		--
10 3/4"	250	0	H-10	HEA	13 3/4"	334			--

GAUGE RECORD (Pressure Hole)

Production	SI	TE °C	TE	0	100	0
Production	SI	TE °C	TE	0	100	0
Pressure	SI	TE °C	TE	0	100	0

Commenced Production (Date) 2/20/74 (Cross out unnecessary dates) XXXXXXXXXX  
 Name of producing zone gas  
 Formation and age of rock ELSTON (Berber)

Present effective depth 4873 (GWF. B.T.D.)  
 Total depth (in hole) 4871 (GWF. B.T.D.)  
 Commenced drilling 2-2-74  
 Completed drilling 2-12-74

(Name of Geologist) B. G. CLERK Title Vice-President

Date September 9, 1974 signed [Signature]

copies made of the present condition of the well and all work done thereon so far as can be determined from all available records in compliance with Sec. 3252 Division 3 of the Public Resources Code the information given hereon is a complete and

All depth measurements taken from top of K. B. which is 8 feet above ground.

Centerline intersect of ADSE KATLAW 2 Elevation of ground above sea level 100

Location 130, N 2 1/2, E FROM SW CORNER OF LARGO PROPERTY OF 302, N 2 1/2, E OF

Sec 18 T 42 N 13 W S.B.V. & M. Well No. HEA 108 Operator AMERICAN OIL # 3

Operator AMERICAN OIL # 3 Well No. HEA 108

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. AMERICAN CAN # 2, Sec. 19, T. 4S, R. 13W, S.B. B. & M.

Date September 6, 1974 Signed C. Basco

10880 Wilshire Blvd. Suite B

Los Angeles, California 90024 (213) 475-4976 Title 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  
1974

4-12

Moved in and rigged up Big Chief Drilling Rig #18. Spudded at 1:00 PM. Drilled 13 3/4" hole from 191' to 623'.

4-13

Pulled out of hole. Ran 16 joints 10 3/4", 48#, J-55 used pipe. B. J. cemented with 100 cu. ft. water and 234 cu. ft. 1:1 Pozz, 100 cu. ft. class "G" cement with 3% CaCl<sub>2</sub>. Displaced with 322 cu. ft. mud. Bumped plug with 375 PSI. PSI would not hold. Cement in place at 11:30 AM. Waited on cement. B. J. topped jobbed cement with 40 sx. class "G" cement. Cement in place at 7:15 PM. Top of cement estimated at 60'.

4-14

Drilled out baffle at 584'. Drilled out shoe at 616'. Pulled out of hole. Rigged up Dyna-drill. Ran in hole with 9 5/8" dyna-drill, drilled to 678'. Pulled out of hole.

4-15

Drilled 9 7/8" hole from 988' to 1165'.

4-16

Ran in hole, drilled on junk at 680'. Waited on tools.

4-17

Drilled to 1777' with 9 7/8" hole. Pulled out of hole, tight pipe.

4-18

Changed drilling set up. Ran in hole, circulated for dyna-drill. Pulled out of hole-tight pipe. Oriented dyna-drill. Drilled to 2006'.

4-19

Circulated and conditioned mud. Pulled out of hole. Looked for crooked pipe. Laid down bad drill pipe. Surveyed stuck pipe at 2057'. Worked on stuck pipe - displaced 10 bbls. outside. Spotted 20 bbls. oil.

4-20

Circulated. Waited on Dialog. Rigged up dialog to free point. Pulled out of hole. Picked up fishing tools. Jarred on fish.

4-21

Jarred on fish. Rigged up Dialog, ran free point. Worked on stuck pipe. Spotted with 37 bbl. oil with 4 bbl. diesel, 40 gal. N.I.O.

4-22

Pulled fish. Made up drilling set up. Ran in hole, circulated and conditioned mud. Pulled out of hole. Ran in hole and drilled 9 7/8" hole to 2129'.

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DIV. OF OIL AND GAS  
LONG BEACH, CA.

4-25 drilled a 2 1/8" hole to 31' and conditioned well. Blended cement with 3% water and 2 1/8" hole. Blended cement with 3% water and 2 1/8" hole. Blended cement with 3% water and 2 1/8" hole.

4-27 Blended cement with 3% water and 2 1/8" hole. Blended cement with 3% water and 2 1/8" hole. Blended cement with 3% water and 2 1/8" hole.

4-30 Blended cement with 3% water and 2 1/8" hole. Blended cement with 3% water and 2 1/8" hole. Blended cement with 3% water and 2 1/8" hole.

4-12 Blended cement with 3% water and 2 1/8" hole. Blended cement with 3% water and 2 1/8" hole. Blended cement with 3% water and 2 1/8" hole.

4-18 Blended cement with 3% water and 2 1/8" hole. Blended cement with 3% water and 2 1/8" hole. Blended cement with 3% water and 2 1/8" hole.

4-11 Blended cement with 3% water and 2 1/8" hole. Blended cement with 3% water and 2 1/8" hole. Blended cement with 3% water and 2 1/8" hole.

4-10 Blended cement with 3% water and 2 1/8" hole. Blended cement with 3% water and 2 1/8" hole. Blended cement with 3% water and 2 1/8" hole.

4-12 Blended cement with 3% water and 2 1/8" hole. Blended cement with 3% water and 2 1/8" hole. Blended cement with 3% water and 2 1/8" hole.

4-14 Blended cement with 3% water and 2 1/8" hole. Blended cement with 3% water and 2 1/8" hole. Blended cement with 3% water and 2 1/8" hole.

4-13 Blended cement with 3% water and 2 1/8" hole. Blended cement with 3% water and 2 1/8" hole. Blended cement with 3% water and 2 1/8" hole.

4-15 Blended cement with 3% water and 2 1/8" hole. Blended cement with 3% water and 2 1/8" hole. Blended cement with 3% water and 2 1/8" hole.

DATE

of cement used, top and bottom of hole, perforation depths, sidetracked hole, running logs and initial production data. History must be complete in all details. Use this form to report all operations during drilling and testing of the well or during reworking.

(Address) \_\_\_\_\_ (Telephone Number) \_\_\_\_\_ (Designer, Recorder or Agent) \_\_\_\_\_

Los Angeles, California 90004 (213) 412-1010 Vice President

10880 Wilshire Blvd. Suite B

Date September 2, 1974 Signed \_\_\_\_\_

Well No. AMERICAN OIL # 2 Sec. 10 T. 42 N. 13M S.B. B. & M.

OPERATOR Anglo Petroleum Corporation Field Wilmington

History of Oil or Gas Well

DIVISION OF OIL AND GAS

DEPARTMENT OF CONSERVATION  
REGULATORY AGENCY OF CALIFORNIA

10  
SUBMIT IN DUPLICATE

RESOURCES AGENCY OF CALIFORNIA  
DEPARTMENT OF CONSERVATION

## DIVISION OF OIL AND GAS

## History of Oil or Gas Well

OPERATOR Argo Petroleum Corporation FIELD WilmingtonWell No. AMERICAN CAN # 2, Sec. 19, T. 4S, R. 13W, S.B. B. & M.Date September 6, 1974 Signed *C. B. Bascob*10880 Wilshire Blvd., Suite 1003  
Los Angeles, CA 90024 (213) 475-4976 Title 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  
1974

- 4-23 Drilled from 2129' to 2677'. Pulled out of hole and picked up dyna-drill.
- 4-24 Dyna-drilled to 2762'. Pulled out of hole and changed drilling set up. Drilled to 3120'.
- 4-25 Drilled to 3628'.
- 4-26 Drilled to 4083'.
- 4-27 Drilled to 4448'. SWECO unit added to system.
- 4-28 Drilled to 4728'.
- 4-29 Drilled to 4883'.
- 4-30 Drilled to 4911'. Schlumberger ran DIL, CFDL, Formation Factor-Caliper Logs.
- 5-1 Ran 114 joints 7", 23#, LT&C K-55 casing. Guide shoe @ 4910', baffle @ 4823'. Pumped in 100 cu. ft. water ahead, drop wiper plug, mix 653 cu. ft. 1:1 Diamix 4% gel, 3% CaCl<sub>2</sub> followed by 200 sx. class "G" with 3% CaCl<sub>2</sub>. Dropped top plug. Displaced with 1100 cu. ft. mud. Cement in place at 8:50 AM. - 3 jts. on location.
- 5-2 Waited on cement. Rigged down floor, nipped down, cut of casing, welded on head. Rigged up floor. Ran in hole with 6 1/4" bit. Circulated. Pulled out of hole. Picked up test tool. Ran in hole with tester for WSO.
- 5-3 Shot 4 - 1/2" holes @ 4530', packer @ 4471', tail @ 4493'. Tool open at 9:10 AM. Lt. blow 3 min. - dead - start blowing 12 min. in test, medium blow throughout. Pulled packer. Pulled out of hole. 1100' mud and salt water and sand. Ran in hole. Cleaned of fill from 4530' to 4550'. Circulated. Pulled out of hole. Picked up squeeze tool. Ran in hole and set tool @ 4425', circulated, broke down @ 2200#, pump @ 1800#, 18 cu. ft. min. Pumped 100 sx. neat cement, cement in place at 3:20 AM. Final 2000# help. Pulled out and ran in hole with 6 1/2", tagged cement @ 4493'. Waited on cmt.

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. AMERICAN CAN # 2, Sec. 19, T. 4S, R. 13W, S.B. B. & M.

Date September 6, 19 74 Signed *C. Baeber*  
 10880 Wilshire Blvd., Suite 1003  
 Los Angeles, CA 90024 (213) 475-4976 Title 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  
1974  
5-4

Shot 4 - 1/2" holes at 4528'. Set packer at 4471'. Tool open at 12:15 AM. Tested holes. Pulled out. Had 30' rise. WSO ok'd by D.O.G. Laid down drill pipe. Installed well head. Rig released at 4:00 PM.

5-9 FIRST STAGE OF SANDFRAC: Schlumberger perf'd 4 - 0.38" holes, 4747' - 4745'. ISIP = 1800 PSI Frac Gradient = 0.87 PSI/ft. Pumped 7 BPM at an average of +3200 PSI. Calculations indicate three (3) holes open. Amounts pumped were:  
 3000 gals - No sand  
 2000 gals - 1#/gal sand  
 2300 gals - 1 1/2#/gal sand

Total of 260 bbls. of treated brine water injected. When pressure rose from 3200 PSI to 3500 PSI the well was flushed. Total sand to the formation was 5500 lbs. of 6/9, 10/20, 20/40 mixture. 100 lbs. of friction reducer was used. Immediate shut-in pressure was 1800 PSI, which bled to 1000 PSI in 15 minutes.

5-11 SECOND STAGE OF SANDFRAC: Schlumberger perf'd 20 - 0.38" holes from 4640' - 4582'. Set Baker bridge plug at 4682'. Sandfraced as programmed. ISIP = 1800 PSI Frac Gradient = 0.87 PSI. Pumped 15 BPM at +3600 PSI. Calculations indicate all holes open. AMOUNTS WERE:

GALS	BBL	SD CONC	SD	CUM SD	ATR
5000	120	-	-	-	120
5000	120	1	5,000	5,000	245
5000	120	2	10,000	15,000	375
5000+	153	3	10,700	25,700	510 + Flush

A total of 513 bbls. of treated brine water was injected. 200 lbs. of friction reducer was used. Total sand used was 25,700 lbs. of 6/9, 10/20, 20/40 mixture. Immediate shut-in pressure was 1800 PSI, which bled to 1400 PSI in 15 minutes.

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SEP 25 11 30 AM '74

DIV. OF OIL AND GAS  
LONG BEACH, CA.

2000+	123	3	10' 100	32' 100	210 + ETHER	
2000	130	3	10' 000	12' 000	312	
2000	130	1	2' 000	2' 000	342	
2000	130	-	-	-	150	
<u>GWTs</u>	<u>BBT</u>	<u>@</u>	<u>SD CONC</u>	<u>SD</u>	<u>GM SD</u>	<u>ALB</u>

AMONITS WERE:  
 Blubbed 12 BWM of +3000 PSI. Calculations indicate that notes open  
 as indicated. ISIB = 1800 PSI. ETC gradient = 0.81 PSI.  
 from 400, - 4285, set backer riggs and 4285, and  
 SECOND STAGE OF SANDWAS: scrippered belt, 9 30 - 0.38, notes

2-11

in pressure was 1800 PSI which reqd to 1000 PSI in 12 strokes.  
 mixture. 100 lbs of friction reducer was used. Immediate shut-  
 down reqd to the formation was 2200 lbs of 10/30, 30/40  
 when pressure rose from 3500 PSI to 3200 PSI the well was  
 total of 300 lbs of treated prime water injected.

- 3300 gals - 1# gal sand
- 5000 gals - 1# gal sand
- 3000 gals - no sand

three (3) notes open. amonits blubbed were:  
 Blubbed 1 BWM of an average of +3300 PSI. Calculations indicate  
 444, - 442, ISIB = 1800 PSI. ETC gradient = 0.81 PSI/ft.  
 FIRST STAGE OF SANDWAS: scrippered belt, 4 - 0.38, notes

2-2

tested at 4:00 PM.  
 PL D.O.C. rig down until rigs. Installed well head. Rig re-  
 12:12 AM. Tested notes. Pulled out. Had 30, 125, 1250 OK, 9  
 spots - 2, notes at 4285, set backer at 441, tool open at

2-4  
1974

Date

of cement used, top and bottom of bridge, perforation details, sidetracked track, pulling logs and initial production data.  
 or affecting the casing, bridge, or abandonment with the dates thereof. Include such items as hole size, formation test details, amounts  
 History must be complete in all details. Use this form to report all operations during drilling and testing of the well or during reworking

(Address)

(Telephone Number)

(President, Secretary or Agent)

10880 WILSON BLVD, SUITE 1003 (312) 474-4424  
 LOS ANGELES, CA 90024  
 Date September 17, 1974  
 signed [Signature]

WELL NO. AMERICAN CAN # 2 sec. 14 T. 24 S. R. 13W S.B. B & M

OPERATOR ARCO Petroleum Corporation FIELD Wilmington

History of Oil or Gas Well

DIVISION OF OIL AND GAS

DEPARTMENT OF CONSERVATION  
 RESOURCES AGENCY OF CALIFORNIA

SUBMIT IN DUPLICATE

**SEALAND**

DIRECTIONAL DRILLING CO.

E &amp; B Natural Resources Management Corp.

PAGE # 1

WEI

"WNF-I" 21

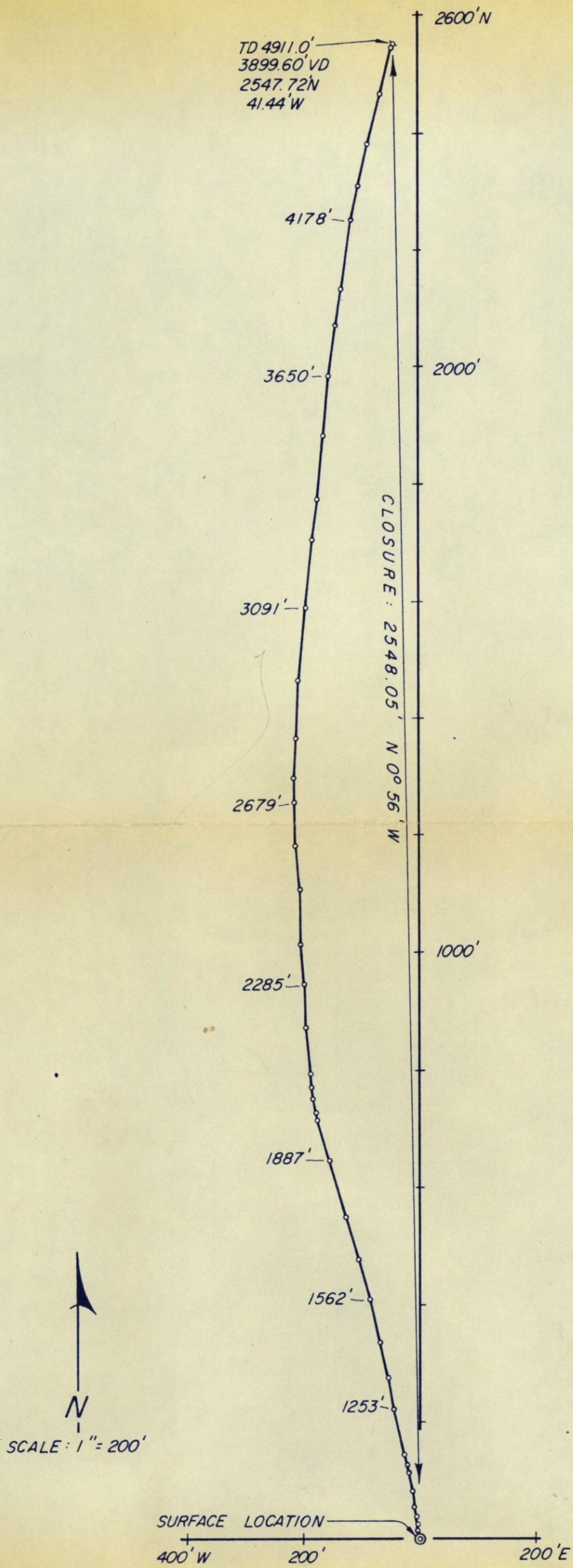
(637-21445)

LOCATION, WILMINGTON L.A. CALIF. DATE 4 / 74

	Measured Depth		Drift Angle	Vertical Depth		Drift Feet		Drift Direction	COORDINATES				REMARKS	
									North	South	East	West		
1	191	00	0°15'	191	00	0	84	S 64°E			0	76		
2	350	00	1°00'	349	97	2	78	S 21°E			2	97		
3	623	00	1°15'	622	91	5	95	N 13°E	2	83			3	09
4	661	00	1°00'	660	90	0	66	N 04°W	3	49			3	04
5	691	00	2°00'	690	88	1	05	N 42°W	4	27			2	34
6	751	00	6°00'	750	55	6	27	N 32°W	9	59			0	98
7	812	00	10°30'	810	53	11	12	N 14°W	20	38			3	67
8	843	00	12°30'	840	80	6	71	N 11°W	26	97			4	95
9	874	00	15°15'	870	71	8	15	N 07°W	35	06			5	94
10	936	00	19°45'	929	06	20	95	N 10°W	55	70			9	58
11	998	00	24°45'	985	36	25	96	N 10°W	81	27			14	09
12	1060	00	29°30'	1039	32	30	53	N 10°W	111	33			19	39
13	1091	00	32°00'	1065	61	16	43	N 09°W	127	55			21	96
14	1122	00	34°00'	1091	31	17	33	N 11°W	144	56			25	26
15	1253	00	37°00'	1195	93	78	84	N 13°W	221	38			43	00
16	1345	00	36°45'	1269	65	55	05	N 12°W	275	23			54	45
17	1439	00	37°45'	1343	97	57	55	N 11°W	331	72			65	43
18	1562	00	41°00'	1436	80	80	70	N 15°W	409	67			86	32
19	1657	00	47°15'	1501	29	69	76	N 16°W	476	73			105	55
20	1752	00	51°45'	1560	10	74	61	N 16°W	548	45			126	12
21	1887	00	48°45'	1649	11	01	49	N 16°W	646	01			154	10
22	1981	00	49°15'	1710	47	71	21	N 16°W	714	46			173	73
23	1997	00	49°30'	1720	86	12	17	N 15°W	726	21			176	88
24	2028	00	49°30'	1740	99	23	57	N 12°W	749	27			181	78
25	2059	00	48°30'	1761	53	23	22	N 09°W	772	21			185	41








**E & B Natural Resources Management Corp.**

AN CAN NO. 2

SEALAND DIRECTIONAL DRILLING COMPANY

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

Report on Operations

SEC. 3606 WELL

No. T 174-454

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

Long Beach, Calif.  
May 7, 1974

DEAR SIR:

Operations at well No. "American Can" 2, API No. 037-21445, Sec. 19, T. 4S, R. 13W,  
S.B., B & M. Wilmington Field, in Los Angeles County, were witnessed  
on May 3, 1974. Mr. R. Dreessen, Jr., Engineer, representative of the supervisor was  
present from 0300 to 0415. There were also present D. Hicks, Driller.

Present condition of well: 10-3/4" cem. 617'; 7" cem. 4910', 4530', perf. 4528', WSO.  
T.D. 4910'.

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

DECISION: THE 7" SHUT-OFF AT 4528' IS APPROVED.

RD:dr

JOHN F. MATTHEWS, JR.  
State Oil and Gas Supervisor

By [Signature] Deputy

RESOURCES AGENCY OF CALIFORNIA  
DEPARTMENT OF CONSERVATION

DIVISION OF OIL AND GAS

Report on Operations

SEC. 3606 WELL

No. T. 174-371

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

Long Beach, Calif.  
April 16, 1974

DEAR SIR:

Operations at well No. "American Can" 2, API No. 037-21445, Sec. 19, T. 4S, R. 13W,  
S.B., B & M. Wilmington Field, in Los Angeles County, were witnessed  
on April 14, 1974. Mr. R. Dreessen, Jr., Engineer, representative of the supervisor was  
present from 0300 to 0600. There were also present R. D. Mitchell, Drilling Foreman.

Present condition of well: 10-3/4" cem. 617'. Standing cemented.  
6

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

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

RD:dr

JOHN F. MATTHEWS, JR.  
State Oil and Gas Supervisor

5 By M. B. Cady Deputy

## DIVISION OF OIL AND GAS

REPORT ON PROPOSED OPERATIONS No. P. 174-138

## SEC. 3606 WELL

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

Long Beach, Calif.  
Feb. 13, 1974

*WNF-I 21*

DEAR SIR:

Your \_\_\_\_\_ proposal to drill Well No. "American Can" 2 (037-21445)  
Section 19, T. 4S, R. 13W, S.B.B. & M., Wilmington Field, Los Angeles County,  
dated --, received 2/6/74, 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. The provisions of Sec. 3606 relating to derricks and subsurface spacing shall be followed.
3. A directional survey shall be made and filed with this Division.
4. At least 620' of surface casing shall be cemented in the hole.
5. Drilling fluid of a quality and in sufficient quantity to control all subsurface conditions in order to prevent blowouts shall be used.
6. Blowout prevention equipment conforming to the requirements of Division of Oil and Gas Class III shall be installed prior to drilling below 620', and shall be maintained in operating condition at all times.
7. Sufficient cement shall be used to fill back of the 7" casing to reach above the base of the fresh waters.
8. THIS DIVISION SHALL BE NOTIFIED:
  - a. Before running surface pipe.
  - b. To witness a test of the installed blowout prevention equipment before drilling below 620'.
  - c. To witness a test of the effectiveness of the 7" shut-off above the zone to be produced.

RC:dr

Blanket Bond

JOHN F. MATTHEWS, JR., State Oil and Gas Supervisor

By *M.B. Kelly*, Deputy

**DIVISION OF OIL AND GAS**

**Notice of Intention to Drill New Well**

3606

037-21445

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		ARG	B	ARG	ARG

DIVISION OF OIL AND GAS

"AMERICAN CAN" 2

In compliance with Section 3203, Division 3, Public Resources Code, notice is hereby given that it is our intention to commence drilling well No. American Can #2 API No. \_\_\_\_\_

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

Legal description of mineral-right lease, consisting of 40 acres, is as follows: \_\_\_\_\_  
(Attach map or plat to scale)

See attached plat

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

Location of well 130 feet North along property section line and 124 feet East  
(Direction) (Direction)

at right angles to said line from the Southwest corner of property section or  
205 feet north of A.T. & S.F. Railway and 164 ft. east of Main St. Centerline.

If well is to be directionally drilled, show proposed coordinates at total depth z460'N, 114'W from surface.

Elevation of ground above sea level 40 feet.

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

**TO BE DRILLED UNDER P.R.C. 3606  
PROPOSED CASING PROGRAM**

SIZE OF CASING INCHES A.P.I.	WEIGHT	GRADE AND TYPE	TOP	BOTTOM	CEMENTING DEPTHS	CALCULATED FILL BEHIND CASING
10- 3/4"	32.75	H-40	0	600	600	to surface
7"	20&23	K-55	0	4600	4600	800'
5-1/2"	15.5	K-55	4600	5500	Hung	

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

Intended zone(s) of completion U. & L. Ranger 4600' & 5000' Estimated total depth 5530  
(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. Suite 1003 ARGO PETROLEUM CORPORATION  
(Street) (Name of Operator)

Los Angeles, CA 90024 By \_\_\_\_\_ (Date)  
(City) (State) (Zip) (Name)

Telephone Number (213) 475-4976 Type of Organization Corporation  
(Corporation, Partnership, Individual, etc.)

Blanket bond #M-149-759



