

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 115-1072

### REPORT ON OPERATIONS

#### WATER FLOOD PROJECT

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

Cypress, California  
November 10, 2015

Your operations at well "Wnf-I" 23, A.P.I. No. 037-22672, Sec. 19, T. 04S, R. 13W, SB B.&M., **Wilmington** field, in **Los Angeles** County, were witnessed on 7/22/2015, by **Max Chavez-Segura**, 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**

DEFICIENCIES NOTED AND CORRECTED: NONE

EXPIRED \_\_\_\_\_  
CANCELLED \_\_\_\_\_  
MAILED \_\_\_\_\_  
EMAILED 11-24-15 TL

HAM:dt

Steven Bohlen  
State Oil and Gas Supervisor

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

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

No. T 115-1072

### MECHANICAL INTEGRITY TEST (MIT)

Operator: E & B Natural Resources Management Corp.				Well: "Wnf-I" 23	
Sec. 19	T. 04S	R. 13W	B.&M. SB	API No.: 037-22672	Field: Wilmington
County: Los Angeles				Witnessed/Reviewed on: 7-22-2015	

Max Chavez, representative of the supervisor, was present from 1400 to 1600  
Also present were: Aaron Glenn and Raul Ronderos (WellaCo)

Casing record of the well:

The MIT was performed for the purpose of (15)  
Demonstrating that all of the injection fluid is confined to the approved zone.

The MIT is approved since it indicates that all of the injection fluid is confined to the formations below  
5376 feet at this time.

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

**CONTRACTOR:** *WellaCo*

**UNCORRECTABLE DEFICIENCIES:**

**DEFICIENCIES NOTED AND CORRECTED:**

Well: "Wnf-1" 23	Date: 7-22-2015	Time: 1400-1600
Observed rate: 184 B/D	Meter rate: 250 B/D	Fluid level: 0 feet
Injection pressure: 900 psi	MASP: 1712 psi	Pick-up depth: 5393 feet
Initial annulus pressure: 0 psi	Pressure after bleed-off: 0 psi	

Casing vented during test (Y/N) Yes      Survey company: WellaCo

<u>SPINNER COUNTS</u>						
DEPTH	COUNTS	RATE	DEPTH	COUNTS	RATE	COMMENTS:

<u>TRACER CASING AND TUBING RATE CHECKS</u>			
Interval	Time (sec.)	Rate (B/D)	Background log: 5100' to 5393'
5310'-5318'	17	152 (Top Perf)	COMMENTS: Aaron Glenn thought the rate at Top Pkr was more accurate.
5172'-5180'	14	184 (Top Pkr)	

TOP PERFORATION CHECK

Top perforation depth: 5376'      Wait at: 5318' for 60 seconds      Beads: (Y/N) No

Casing shoe at: 5506'      WSO holes at:      Arrival time: *Calculated*      *Actual*

LOG FROM	TO	SLUG @	LOG FROM	TO	SLUG @	COMMENTS:
5318'	5393'	5350'				Slug gone away at 5393'.
5393'	5250'	5359'				
5250'	5393'	No tracer				

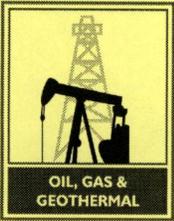
PACKER CHECK

Packer at: 5193'      Wait at: 5180' for 60 seconds      Beads: (Y/N) No

Tubing tail at: 5209'      Tubing size: 2-7/8" (Rice)      2nd Packer at:      Mandrel:

LOG FROM	TO	SLUG @	LOG FROM	TO	SLUG @	COMMENTS:
5180'	5250'	5206'				Some tracer stuck at approx. 5198', below Pkr @ 5193'.
5250'	5150'	5212'				
5150'	5275'	5229'				
5275'	5150'	5271'				

COMMENTS: Due to existing well configuration, some tracer was stuck between Tbg tail @ 5209' and top Pkr @ 5193. Tracer confined to this location, not migrating.



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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 115-0051

### 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 5, 2015

Your operations at well "**Wnf-1" 23**, A.P.I. No. **037-22672**, 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**.

DECISION: **APPROVED**

DEFICIENCIES NOTED AND CORRECTED: None

EXPIRED \_\_\_\_\_  
CANCELLED \_\_\_\_\_  
MAILED \_\_\_\_\_  
EMAILED 2/6/2015 *JK*

MV/kj

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

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

By *for* *[Signature]*  
Daniel J. Dudak, District Deputy

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

OK MV 1/28/15  
T 115-0051

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 23 API No. 037-22672

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 1100 to 1315 .

There was also present Stan Ballard (Wellaco)

Casing record of present hole: 16" cem 40', 10 3/4" cem 603', 7" cem 5364', CP 5352', perf 5354' WSO, tight  
3667', 5" Id 5294'-5500', perf 5373'-5496', 2 7/8" Id 5231'-5506', perfs 5337'-5506', TD 5506' (present hole).

A Standard Annular Pressure Test was performed on the 7" casing. The tubing/casing annulus was  
pressure tested with 1335 psig for 15 minutes. There was 0 pressure drop.

Packer Depth: 5191'

Well Status:  Injecting at 310 psi  Idle  Shut in

DECISION:

The pressure test is  Approved  Not Approved

Well Name:

Wnf-I 23

API #:

037-22672

Date:

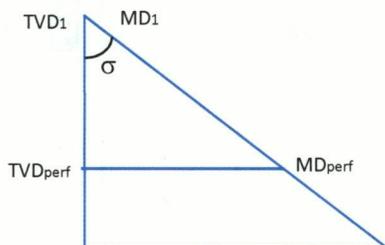
1/27/2015

### 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



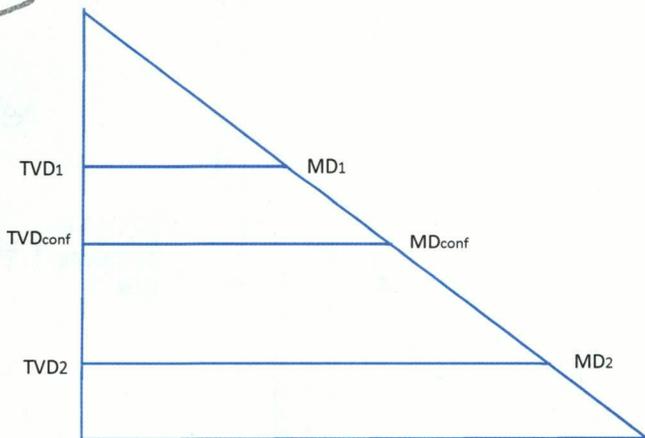
MD = Measured depth  
 TVD = Total Vertical Depth  
 perf = Perforation  
 σ = Angle of Inclination

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

MD <sub>1</sub>	TVD <sub>1</sub>	MD <sub>2</sub>	TVD <sub>2</sub>	MD <sub>conf</sub>	TVD <sub>conf</sub>
5310	3676.35	5450	3794.25	5354	3713.404286

*skwe 5364*

*3721' NW*



MD = Measured depth  
 TVD = Total Vertical Depth

*88*

FBI/Rgr

10 3/4" 40.5# 14 3/4"  
375SX  
RTS

1983 O<sub>2</sub> never produced  
1983 CTI  
- 0.97 psi/ft  
1987 RDI  
5" liner removed  
new 5" installed

603'

2275'

BFW 2390±

.2646  
.2210

7" 23# 9 7/8"

445SX

836 cf

FC5280' (194)

= 3089 lf

CTOC 2275'

WSD 5352, 54'

TOL 5294'

WSD 5352'

5364'

cut 5316  
5318  
5321

5" 18# 9 7/8"

5319 - 5489

Slotted

DH

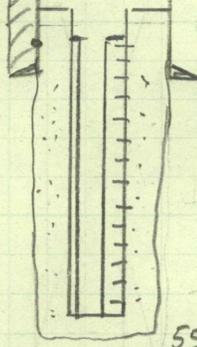
Pulled 9'

1987 2 7/8"

5343' - 5506

5503 - 5506

10/2008  
no  
permit



RD1

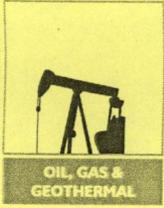
5" SL 5373-5496

5294 - 5500

gravel pak

RD1





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 114-0895

## REPORT ON OPERATIONS

### WATER FLOOD PROJECT

Mr. Mike McAdams  
E & B Natural Resources Management Corporation (E0100)  
1600 Norris Rd.  
Bakersfield, CA 93308

Cypress, California  
August 21, 2014

Your operations at well "Wnf-I" 23, A.P.I. No. 037-22672, Sec. 19, T. 04S, R. 13W, SB B.&M., Wilmington field, in Los Angeles County, were witnessed on 8/21/2014, by Todd Tyler, 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**

DEFICIENCIES NOTED AND CORRECTED: None

MV/kj

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

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

By

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

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

114-0895

No. T \_\_\_\_\_

**MECHANICAL INTEGRITY TEST (MIT)**

olmv

Operator: <u>E&amp;B</u>				Well: <u>"WNF"-I-23</u>	
Sec.	T.	R.	B.&M.	API No.: <u>037-22672</u>	Field: <u>Wilmington</u>
County: <u>Los Angeles</u>				Witnessed/Reviewed on: <u>7-14-14</u>	

"Todd" Edward Tyler, representative of the supervisor, was present from 0930 to 1200.

Also present were: Nelaco:  
Aaron Glen (Survey Tech), Rayl Ronderos

Casing record of the well: 16" cem 40';  
10 3/4" cem 600'; 7" cem 5363'; CP 5352'-5354'; 5" 1/2 5294'-5500', perf 5373';  
2 7/8" liner 5231'-5506'; perfs (5337'-5506'). T.D. 5506'; 5496';

The MIT was performed for the purpose of  
Note: (15)

The MIT is approved since it indicates that all of the injection fluid is confined to the formations below 5376 feet at this time.

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

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Well: "WNF"-I-23	Date: 7/14/14	Time: 0930
Observed rate: 263 B/D	Meter rate: 263 B/D	Fluid level: <del>Ø</del> feet
Injection pressure: 1700 psi	MASP:	Pick-up depth: 5422 feet

Initial annulus pressure: <del>Ø</del> psi	Pressure after bleed-off: <del>Ø</del> psi
--	--

Casing vented during test <input checked="" type="checkbox"/> (Y/N)	Survey company: Welaco
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SPINNER COUNTS						
DEPTH	COUNTS	RATE	DEPTH	COUNTS	RATE	COMMENTS:

**TRACER CASING AND TUBING RATE CHECKS**

Interval	Time (sec.)	Rate (B/D)	Background log: 5400' to 5100'	COMMENTS:
5310' - 5320'	26	126		
5160' - 5170'	26	126		

**TOP PERFORATION CHECK**

Top perforation depth: 5376'	Wait at: 5320' for 120 seconds	Beads: (Y/N) <input checked="" type="checkbox"/>
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Casing shoe at: 5363'	WSO holes at:	Arrival time: Calculated	Actual
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LOG FROM	TO	SLUG @	LOG FROM	TO	SLUG @	COMMENTS:
↓ 5320'	5400'	5359'				* top effective perf 5363'
↑ 5400'	5275'	5370'				
↓ 5275'	5400'	gone				

**PACKER CHECK**

Packer at: 5194'	Wait at: 5170' for 120 seconds	Beads: (Y/N) <input checked="" type="checkbox"/>
------------------	--------------------------------	--

Tubing tail at: 5196'	Tubing size: 2 7/8"	2nd Packer at:	Mandrel: No
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LOG FROM	TO	SLUG @	LOG FROM	TO	SLUG @	COMMENTS:
↓ 5170'	5250'	5203'				* hanging up tool @ packer on 1st run ** good upon review
↑ 5250'	5125'	5215'				
↓ 5125'	5275'	5213' **				

COMMENTS:  
 \* Trouble getting into hole. P.V. @ 5415'; tool stuck pulling 1200#.   
 2 AL-11





Well: <u>WNP-1 23</u>	Date: <u>2/13/2013</u>	Time: <u>1100</u>
Observed rate: <u>129</u> B/D	Meter rate: <u>133</u> B/D	Fluid level: <u>Ø</u> feet
Injection pressure: <u>1690</u> psi	MASP: <u>1702</u>	Pick-up depth: <u>5431</u> feet
Initial annulus pressure: <u>Ø</u> psi	Pressure after bleed-off: <u>Ø</u> psi	

Casing vented during test (Y/N) <u>(Y)</u>	Survey company: <u>Welco</u>
--	------------------------------

SPINNER COUNTS						
DEPTH	COUNTS	RATE	DEPTH	COUNTS	RATE	COMMENTS:

TRACER CASING AND TUBING RATE CHECKS			
Interval	Time (sec.)	Rate (B/D)	Background log: <u>5431'</u> to <u>5100'</u>
(liner) 5317 -	43	62	COMMENTS:
5325			
(tubing) 5180 -	20	129	
5188			
192 - 200	25	106	

**TOP PERFORATION CHECK**

Top perforation depth: <u>5378'</u>	Wait at: _____ for _____ seconds	Beads: (Y/N)
-------------------------------------	----------------------------------	--------------

Casing shoe at: <u>5364'</u>	WSO holes at: _____	Arrival time: <u>Calculated</u> <u>Actual</u>
------------------------------	---------------------	---

LOG FROM	TO	SLUG @	LOG FROM	TO	SLUG @	COMMENTS:
5325'	5431'	5368'	5431'	5275'	5410'	
5431	5275'	5378'	5275'	5431'	5431'	
5275'	5431'	5395'				

**PACKER CHECK**

Packer at: <u>5207'</u>	Wait at: _____ for _____ seconds	Beads: (Y/N)
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Tubing tail at: <u>5210'</u>	Tubing size: _____	2nd Packer at: _____	Mandrel: _____
------------------------------	--------------------	----------------------	----------------

LOG FROM	TO	SLUG @	LOG FROM	TO	SLUG @	COMMENTS:
5188'	5250'	5202'	5260'	5150'	5225'	slug is gone at last run
5250'	5150'	5205'	5150'	5275'	5227'	
5150'	5260'	5225'	5275'	- - -'	- - -'	

COMMENTS:

# WELL TRANSFER NOTICE

Effec February 7, 1997

**XTRA ENERGY CORPORATION**

***TRANSFERRED***

*all wells Wilmington*

*(See Operator File for Complete List)*

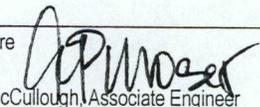
**TO**

**XL OPERATING COMPANY**

*SEE OGD156 DATED 02-7-97*

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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
<b>SEE ATTACHMENT</b>			
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**

	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			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.

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# DEPARTMENT OF CONSERVATION

## DIVISION OF OIL, GAS AND GEOTHERMAL RESOURCES

5816 Corporate Avenue • Suite 200 • CYPRESS, CALIFORNIA, 90630-4731

PHONE 714 / 816-6847 • FAX 714 / 816-6853 • WEBSITE [conservation.ca.gov](http://conservation.ca.gov)

January 27, 2009

Michael J. Sliwoski, Agent  
Four Teams Oil Prod. & Expl. Co., Inc.  
P.O. Box 877  
Lakewood, CA 90714

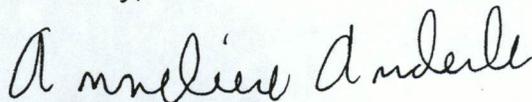
Subject: Rescission of Injection Permit(s)

Dear Mr. Sliwoski:

It is Division policy to rescind approval of injection permits for wells that have been idle for two or more years. The following injection wells (see attached list) have been idle for two or more years. Therefore, the permits to inject into these wells are hereby rescinded. Injection lines to these wells must be disconnected and safely blinded within 10 days from the date of this letter. Please notify this office when the lines have been disconnected so a Division representative can inspect the completed work. If you wish to reactivate an injection permit, a notice to rework must be sent to this office for review, and Division approval obtained, prior to the resumption of injection. Additional information may also be required per Sections 1724.6 and 1724.7 of the California Code of Regulations before injection can resume. If you have any questions please call me at (714) 816-6847.

Also, since these wells are idle as defined in Section 3008 (d) and (e) of the Public Resources Code, they will be subject to the Division's idle well monitoring and abatement program.

Sincerely,



Anneliese Anderle  
Associate Oil and Gas Engineer  
Division of Oil, Gas and Geothermal Resources

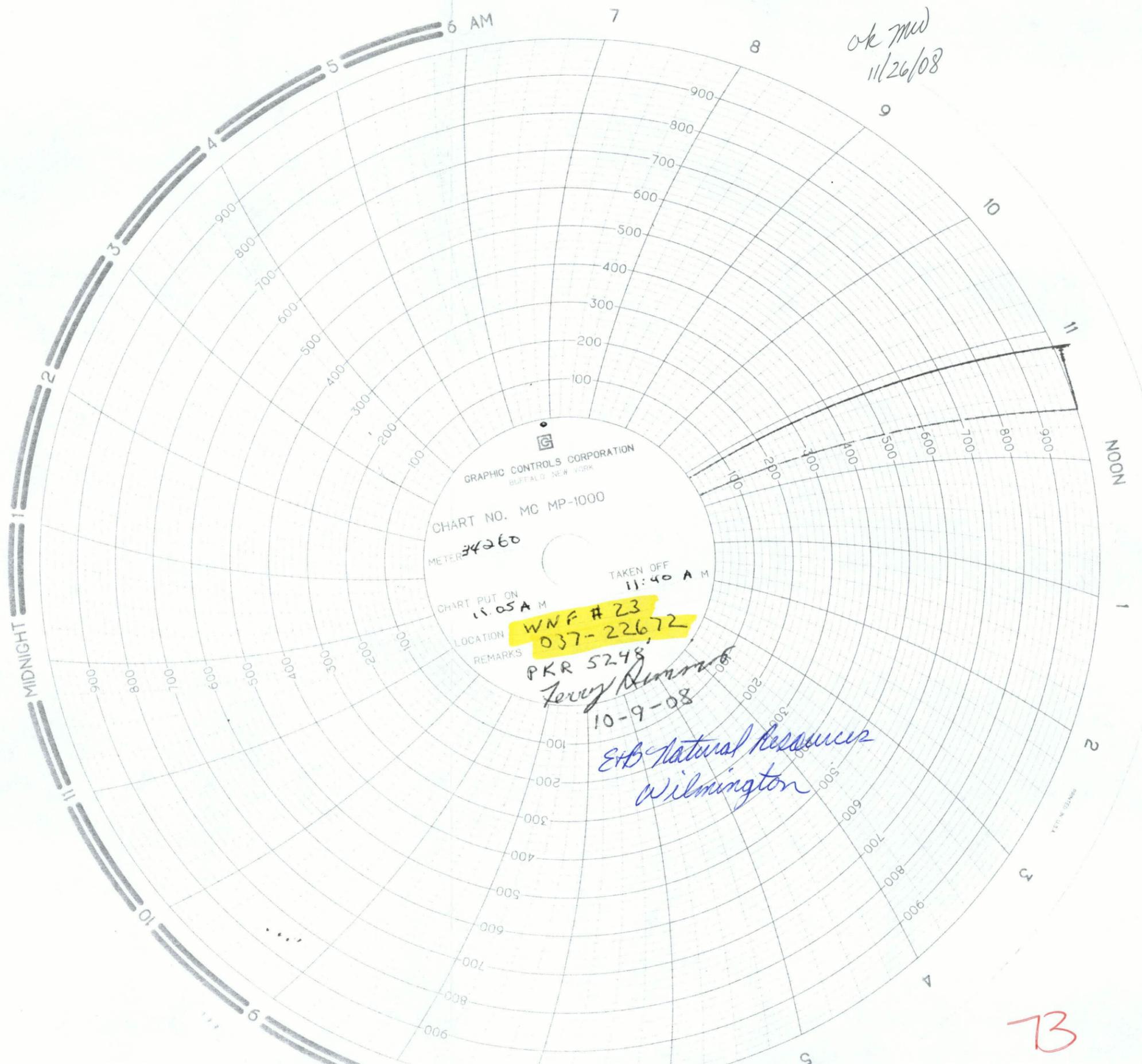
Attachment

aa:kc

cc: Well File  
Project File

REC'D NOV 20 2008

74



ok mdw  
11/26/08

GRAPHIC CONTROLS CORPORATION  
BUFFALO, NEW YORK

CHART NO. MC MP-1000

METER 34260

TAKEN OFF  
11:40 A M

CHART PUT ON  
11:05 A M

LOCATION WNF # 23  
037-22672

REMARKS PKR 5248  
Jenny R. ...

10-9-08

E.B. Natural Resources  
Wilmington

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Operator	Field	Lease	Well #	API #	Well Type	Well Status	Month	Year	Permit Active
Four Teams Oil Prod. & Expl. Co., Inc.	WILMINGTON	Wnf-l	10	03722611	WF	1	4	2000	Y
Four Teams Oil Prod. & Expl. Co., Inc.	WILMINGTON	Wnf-l	19	03722846	WF	1	4	1999	Y
Four Teams Oil Prod. & Expl. Co., Inc.	WILMINGTON	Wnf-l	← 23	03722672	WF	1	6	1989	Y
Four Teams Oil Prod. & Expl. Co., Inc.	WILMINGTON	Wnf-l	44	03722820	WF	1	1	1994	Y

February 10, 1997

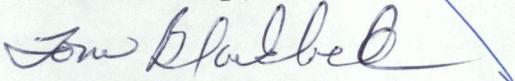
Division of Oil & Gas  
245 West Broadway  
Suite 475  
Long Beach, CA 90802

Dear Mr. Leeson,

Please find attached copies of the water disposal injection surveys that you requested on the XL Operating Co. lease in the Wilmington Field.

Well No. 23 was attempted, but the survey tool stopped at 1200' indicating something in the tubing string therefore, XL Operating Co. will attempt to place Well No. 19 back to injection service after an acid job. If successful, XL will have a survey performed.

Yours Truly,



Tom Blacklock

cc: CR Jeter

03722846

03722672

RECEIVED  
FEB 12 1997  
Division of Oil & Gas  
Long Beach, CA

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February 10, 1997

Division of Oil & Gas  
245 West Broadway  
Suite 475  
Long Beach, CA 90802

Dear Mr. Lesson,

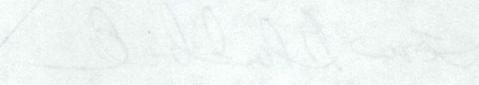
Please find attached copies of the water disposal injection surveys that you requested on the XL Operating Co. lease in the Wilmington Field.

Well No. 23 was attempted, but the survey tool stopped at 1200' indicating something in the tubing string therefore, XL Operating Co. will attempt to place Well No. 18 back to injection service after an acid job. If successful, XL will have a survey performed.

03755848

03755848

Yours Truly,



Tom Blacklock

cc: CR Jeter

**RECEIVED**

**FEB 13 1997**

DIVISION OF OIL, GAS  
& GEOTHERMAL RESOURCES  
LONG BEACH

**DIVISION OF OIL AND GAS**

**Report on Operations**

WATERFLOOD PROJECT

Agnes T. List, Agent-Xtra Energy Corp.

c/o C T CORPORATION SYSTEM

800 South Figueroa Street, Suite 1000

Los Angeles, CA 90017

Long Beach, Calif.

March 15, 1989

Your operations at well "WNF-I" 23, API No. 037-22672,  
Sec. 19, T. 4S, R. 13W, S.B.B. & M. Wilmington Field, in Los Angeles County,  
were witnessed on 7-28-88. B. Hesson, Engineer, representative of  
the supervisor, was present from 0900 to 1100. There were also present M. Finley,  
Flo-Log

Present condition of well: 16" cem 40'; 10-3/4" cem 603'; 7" cem 5364', cp 5352', perf  
5354' WSO; 5" 1d 5294'-5500', perf 5373'-5496'. TD 5506'.

The operations were performed for the purpose of demonstrating that all of the injection fluid  
is confined to the formations below 5373'.

DECISION: APPROVED.

NOTE: DEFICIENCIES CORRECTED  
NONE

DEFICIENCIES TO BE CORRECTED  
NONE

UNCORRECTABLE DEFICIENCIES  
NONE

CONTRACTOR: Flo-Log, Inc.

BH: mh

cc: Update

M. G. MEFFERD

State Oil and Gas Supervisor

Robert H. Samuelian  
Deputy Supervisor

for R. K. Baker

CG

RH 11/31/89  
No. T 189-235

DIVISION OF OIL AND GAS  
INJECTION WATER SHUTOFF TEST

Operator X-TBA ENERGY

Well designation "WNF-I" 23 Sec. 19, T. 4S, R. 13W, S.B. B.&M.

Field WILMINGTON, County L.A. was tested for water shutoff on 7/28/88. (Name) B. HESSON, representative of the supervisor, was present from 0900 to 1100. Also present were M. FINLEY (FO-66)

Casing record of well: 16" CEM 40'; 10 3/4" CEM 603'; 7" CEM 5364', CP 5352'; PEAF 5354' WSO; 5" LD 5294'-5500', PEAF 5373'-5496'. TD 5506'.

The operations were performed for the purpose of (P) 5" @ 5373'

- 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 5373 ' at this time.

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

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

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

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

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

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

INJECTION SURVEY:  
RA/Spinner/Temperature survey run at 170 B/D & 1550 psi on 7/28 1988  
fluid confined below 5373 ' (Packer depth 5244 ' )  
PSA; TOP PEAF CHECKS O.K.

DEFICIENCIES NOTED AND CORRECTED:

None

DEFICIENCIES NOTED AND TO BE CORRECTED:

None

UNCORRECTABLE DEFICIENCIES:

None

CONTRACTOR:

Fro-Log, Inc.

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

Company XTRA ENERGY CORP. Well No. "WNF-I" 23  
 API No. 037-22672 Sec. 19, T. 4S, R. 13W, S.B. B.&M.  
 County LOS ANGELES Field WILMINGTON

<u>RECORDS RECEIVED</u>	<u>DATE</u>	
Well Summary (Form OG100)		
History (Form OG103)	<u>4-2-87</u>	<u>2</u>
Core Record (Form OG101)		
Directional Survey		
Sidewall Samples		
Other		
Date final records received		
Electric logs:		

<u>STATUS</u>	<u>STATUS</u>
Producing - Oil	Water Disposal
Idle - Oil	Waterflood
Abandoned - Oil	Steamflood
Drilling - Idle	Fire Flood
Abandoned - Dry Hole	Air Injection
Producing - Gas	Gas Injection
Idle - Gas	<u>CO<sub>2</sub> Injection</u> <input checked="" type="checkbox"/>
Abandoned - Gas	LPG Injection
Gas-Open to Oil Zone	Observation
Waterflood Source	
DATE	"E" well Yes <input type="checkbox"/> No <input type="checkbox"/>
RECOMPLETED	<u>4-2-87</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 OG159 (Final Letter)
5. Form OGD150b (Release of Bond)
6. Duplicate logs to archives
7. Notice of Records due (F-OGD170)
8. EDP (F-OGD42A-1, 2)

*HOLD FOR 6 MONTHS  
INJECTION*

*UPDATE CENTER Feb 1/89*

*CO<sub>2</sub> INJECTION*

RECORDS NOT APPROVED

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

RECORDS APPROVED *Michael R...*

RELEASE BOND

Date Eligible \_\_\_\_\_  
 (Use date last needed records were received.)

MAP AND MAP BOOK *map 128, P. 4/1/89*

*666*

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

**History of Oil or Gas Well**

Operator XTRA ENERGY CORPORATION Field WILMINGTON County LOS ANGELES  
Well "WNF-1" - 23, Sec. 19, T. 4S, R. 13 W, SB. B. & M.  
A.P.I. No. 037-22672 Name KRISTIN L. HUDSON Title PETROLEUM ENGINEER  
Date 3/20/, 1987 (Person submitting report) (President, Secretary or Agent)

Signature.....

PO BOX 40262, HOUSTON, TEXAS (TX) 77240-0262

(Address)

(713) 896-2576

(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

- 2/13/86 Move from "WNF-1" 18 A. R.U. C.O. to Claybase. Strip over. B.O.P.E. N.U. P.O.H. w/2-7/8" tbg. RIH w/skirted mill & P.U. 3-1/2" drl pipe.
- 2/14/86 Continued P.U. 3-1/2" D.P. Circulate @ 5364'. Clean out fill 5367'-5376'. Mill lnr 5376'-5404' = 28' = 15-1/4 hrs. P.O.H., tight @ 3667' @ 6:00 a.m. Clay base mud. 15-1/4 hrs rotating time.
- 2/15/86 P.O.H. RIH w/Grant 6-1/4" x 12" blade scraper. Open blades @ shoe @ 5364'. Open hole to 5394'. Circ. P.O.O.H. Pick up 14 jts = 436' 2-7/8" tbg & XO. Run on 3-1/2 DP to 5394'. W/tbg hung @ 5393', pumped 100 cf pre flush, mixed & pumped 126 cf class "G" cmt containing 20% sd mixed 44% slurry. Displaced w/205 cf mud. CIP 12:05 p.m. Pulled up 20 stds. Circ down wiper plug. P.O.O.H. RIH w/6-1/4 bit & csg scraper. Tag cmt @ 4959'.
- 2/16/86 D.O. cmt 4959'-5300'. Test all. B.O.P.E. O.K. by DOG. D.O. cmt to 5363'. Circ 1/2 hr. P.O.O.H. Make up bit, Magna drill, monel, align kick sub & bent housing. Slip & cut drill line. RIH break circ. Survey. Orient Magna drill. Magna drill 6-1/4 hole 5363'-5382' = 19' = 1 hr. Chain out of hole. Drop kick sub & aligning tool. RIH w/bent housing, mud Mtr. Orient mud mtr @ 6:00 a.m.
- k2/17/86 Magna drl 5382'-5502'. Surveys. Measure out of hole. RIH w/bit, BS, 3 DC, Stabilizer, 3 DC, BS to 5364'. Rig up hose to Baker tank and ship claybase from pits to storage. Change shaker screens. RIH to 5502'. Attempt to change hole over. Vac truck hose bad. Pull up to shoe & cln pits. Change over to polymer at 5502'. Drl 5502'-5506' while changing over. POH. RIH w/6 x 12 underreamer. Surveys: 5418', 5449', 5502'.
- 2/18/86 Lnr top @ 5294'. Shoe @ 5500'. RIH w/underreamer. Cut shoulder @ 5364'. Underreamed to 5506'. Circ. POH. Rig up D/A & run Caliper log. Rig down loggers. RIH w/underreamer. Rem 5400'-5506'. Circ & cond hole for lnr. Spot 45 bbl hi-vis pill @ 5506'. POH & P.U. 5" lnr.

65



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

**History of Oil or Gas Well**

Operator XTRA ENERGY CORPORATION Field WILMINGTON County LOS ANGELES  
Well "WNF-1" - 23, Sec. 19, T. 45, R. 13 W., SB. B. & M.  
A.P.I. No. 037-22672 Name KRISTIN L. HUDSON Title PETROLEUM ENGINEER  
Date 3/20/, 1987 (Person submitting report) (President, Secretary or Agent)

Signature.....

PO BOX 40262, HOUSTON, TEXAS (TX) 77240-0262

(713) 896-2576

(Address)

(Telephone Number)

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

DATE

- 2/19/86 Lnr top @ 5294'. Shoe @ 5500'. RIH w/lnr. Total lnr = 6 jts. Btm jt equipped w/bull nose. P.C. located between tattle tale jt & top blank jt & landing sub adapt. Pump ball. Reverse out @ 5360'. Run to 5506'. P.U. to 5500'. Gravel pack. Pakced off w/90 cf. Reversed out 3 cf. 87 cf in place. Press tested to pack off pressure. P.O.O.H. 1 hr. Rpr brakeline 1 hr. Cont P.O.O.H. Lay dn G.P. tools. RIH w/lead seal adapt. Set lead seal @ 5294'. P.O.O.H. w/ OE 2-3/8" tbg on D.P. Mix change over fluid.
- 2/20/86 Lnr top @ 5294'. Shoe @ 5500'. Circ w/9.8# brine wtr. P.O.O.H.. Lay dn 3-1/2", DC's, tbg tail. Rig up hydrotest. M.U. inj pkr. Test inj tbg in while running inj pkr. POH. Change out bell collar. Run & test in hole. Rig dn tester. N.U. down BOP. N.U. tbg. Disp brine wtr w/pickle wtr in annulus. Set pkr. N.U. tbg flange. Clean out pits. Rig released 5:00 a.m.



DIVISION OF OIL AND GAS

Report on Operations  
WATERFLOOD PROJECT

Parker B. Kemp, Agent  
XTRA ENERGY CORPORATION  
P.O. Box 9  
Long Beach, CA 90801

Long Beach, Calif.  
June 5, 1986

Your operations at well "WNF-I" 23, API No. 037-22672,  
Sec. 19, T. 4S, R. 13W, S.B. B. & M. Wilmington Field, in Los Angeles County,  
were witnessed on 3-19-86 by M. Saw, Engineer, representative of  
the supervisor, was present from 1330 to 1345. There were also present T. Quick,  
Engineer

Present condition of well: 16" cem 40'; 10-3/4" cem 603'; 7" cem 5364', cp 5352', perf  
5354' WSO; 5" 1d 5298'-5500', perf 5373'-5496'. TD 5500'.

The operations were performed for the purpose of demonstrating that all of the injection fluid  
is confined to the formations below 5354'.

DECISION: APPROVED.

NOTE: DEFICIENCIES TO BE CORRECTED  
NONE  
DEFICIENCIES CORRECTED  
NONE

CONTRACTOR: Prime Inc.

MS:mh

cc: Update

M. G. MEFFERD  
State Oil and Gas Supervisor  
T. C. [Signature]  
Deputy Supervisor  
for V. F. Gaede

DIVISION OF OIL AND GAS  
WATER SHUTOFF TEST

4-19-86  
5-1-86  
No. T 186667

Operator Xtra Energy Corp.

Well designation "WNP-I" 23 Sec. 19, T. 4S, R. 13W, SB B.&M.

Field Wilmington, County Los Angeles was tested for water shutoff on 3/19/86. (Name) M. Saw, representative of the supervisor, was present from 1330 to 1345. Also present were T. Quick, Engineer

Casing record of well: 16" cem 40'; 16 3/4" cem 603'; 7" cem 5364'; cp 5352'; perf 5354' WSO  
5" ld 5298'-5500', perf 5373'-5496'. TD 5500'.

The operations were performed for the purpose of (D) 5354'

- 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 5354' at this time.

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

Size	Casing			Date	Cemented		Top of Fill		Sqd. Away	Final Press	Test psi/min. Perfs.
	Wt.	Top	Bottom		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 288 B/D & 1650 psi on 3/19 1986,  
fluid confined below 5354' (Packer depth 5271')  
csg valve opened. csg shoe, WSO hole + packer checked OKed  
60

**DEFICIENCIES—TO BE CORRECTED**

None

**DEFICIENCIES—CORRECTED**

None

**CONTRACTOR**

Prime Inc.

**DIVISION OF OIL AND GAS**

**Report on Operations**

WATERFLOOD PROJECT

Parker B. Kemp, Agent  
XTRA ENERGY CORPORATION  
P.O. Box 9  
Long Beach, CA 90801

Long Beach Calif.  
April 1, 1986

Your operations at well "WNF-I" 23, API No. 037-22672,  
Sec. 19, T.4S, R.3W, S.B. B. & M. Wilmington Field, in Los Angeles County,  
were witnessed on 2-15-86, M. Saw, representative of  
the supervisor, was present from 1100 to 1200. There were also present H. Collam,  
Drilling Foreman.

Present condition of well: 16" cem 40'; 10-3/4" cem 603'; 7" cem 5364', cp 5352', perf  
5354' WSO; 5" ld 5319'-5489', perf 5376'-5483', pulled fr 5378', milled 5378'-5404'.  
TD 5489'. Plugged w/cem 5403'-4959'.

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

DECISION: APPROVED

NOTE: DEFICIENCIES TO BE CORRECTED  
NONE

DEFICIENCIES CORRECTED  
1. Pump stroke counter was not available.

CONTRACTOR: Well Tech, Inc.

MS:gah

cc: Update

M. G. MEFFERD

State Oil and Gas Supervisor

By T. C. Manna

Deputy Supervisor

V. E. Gaede

58 fax



**DEFICIENCIES—TO BE CORRECTED**

None

**DEFICIENCIES—CORRECTED**

Pump stroke counter was not available on the rig floor.

**CONTRACTOR**

Well Tech, Inc.

# PERMIT TO CONDUCT WELL OPERATIONS

WATERFLOOD PROJECT

849  
(field code)  
03  
(area code)  
20  
(new pool code)  
20  
(old pool code)

John D. Carmichael, Agent  
XTRA ENERGY CORPORATION  
P.O. Box "9"  
Long Beach, CA 90801

Long Beach, California  
January 27, 1986

Your \_\_\_\_\_ proposal to redrill well "WNF-I" 23,  
A.P.I. No. 037-22672, Section 19, T. 4S, R. 13W, S.B. B. & M.,  
Wilmington field, Fault Block I area, Ranger pool,  
Los Angeles County, dated 1-17-86, received 1-21-86 has been examined in conjunction with records  
filed in this office.

THE PROPOSAL IS APPROVED PROVIDED:

1. Blowout prevention equipment, equivalent to this division's Class III2MB, or better, shall be installed and maintained in operating condition.
2. Drilling fluid of a quality and in sufficient quantity to control all subsurface conditions in order to prevent blowouts shall be used.
3. A directional survey shall be made and filed with this division.
4. This division shall be consulted and a Supplementary Notice may be required before making any changes in the proposed program.
5. This well shall conform to the provisions set forth in our letter of June 24, 1983 approving the project.
6. A pressure test is conducted to demonstrate the mechanical integrity of the 7" casing. This test is to be conducted as part of the B.O.P.E. test.
7. THIS DIVISION SHALL BE NOTIFIED TO:
  - a. Witness a test of the installed blowout prevention equipment prior to drilling out cement in the shoe of the 7" casing.
  - b. Witness the running of an injection survey.

NOTE: Prior to any sustained injection above a gradient of .90 psi per foot of depth as measured at the sand face, injectivity and profile tests shall be made. The results of these tests and the proposed method of operations as to input rate, pressure and water distribution by subzones shall be submitted to this division for approval.

MJK:mh

cc: Update  
EDP

BLANKET BOND

Engineer Michael J. Kratovil

Phone (213) 590-5311

M. G. MEFFERD, State Oil and Gas Supervisor

By V. F. Gaede  
for V. F. Gaede, Deputy Supervisor

**A copy of this permit and the proposal must be posted at the well site prior to commencing operations.**

**Records for work done under this permit are due within 60 days after the work has been completed or the operations have been suspended.**

SS

NOTE:  
CHANGE 12

S  
RDR

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.

WATER FLOOD

FOR DIVISION USE ONLY		
BOND	FORMS	
	OGD 114	OGD 121
BB	1-23-86	1-23-86

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" 23 ~~X~~, API No. 037-22672  
 (Well designation)  
 Sec. 19, T. 4S, R. 13W, SB B. & M., Wilmington Field, Los Angeles County.

The present condition of the well is as follows:

- Total depth  
5489'
- Complete casing record, including plugs and perforations  
10 3/4", 40.5#, J-55, 603'  
7", 23#, K-55, 5364'  
5", 18#, N-80, 5378-5489 (liner fish)
- Present producing zone name Ranger; Zone in which well is to be recompleted Ranger
- Present zone pressure 1600 +; New zone pressure 1600+
- Last produced \_\_\_\_\_ (Date) \_\_\_\_\_ (Oil, B/D) \_\_\_\_\_ (Water, B/D) \_\_\_\_\_ (Gas, Mcf/D)  
 (or)  
 Last injected 5-11-84 \_\_\_\_\_ (Date) \_\_\_\_\_ (Water, B/D) 230 (Gas, Mcf/D) 1790 (Surface pressure, psig)

The proposed work is as follows:

Sidetrack and redrill well from the shoe of 7" casing  
Program attached

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 424-8549

Xtra Energy Corporation  
 (Name of Operator)  
 By Parker B. Kemp  
 (Print Name)  
Parker B. Kemp 1-17-86  
 (Signature) (Date)

54

RECEIVED  
JAN 21 1 42 AM '86  
DIV. OF OIL AND GAS  
LONG BEACH, CA.

Proposed Location

City, State and County

Proposed Well Name

Proposed Well Number

(if any)

Proposed Well Depth

Proposed Well Completion

Proposed Well Production

Proposed Well Operator

Proposed Well Status

Proposed Well Date

Proposed Well Location

Proposed Well


Notice of Intention to Revoke

DIVISION OF OIL AND GAS

53

505

XTRA ENERGY CORPORATION

PROGRAM FOR REDRILLING

WNF-I # 23

REFERENCE POINT:

K.B. which is 22' above G.E.

ELEVATION:

38' G.E. + 22' K.B. = 60'

CASING:

10-3/4", 40.5# cemented @ 603'  
7 " , 23# cemented @ 5364'  
5 " liner fish, top @ 5378'

PROPOSAL:

Side track old liner and redrill well from the shoe of the 7" casing.

PROCEDURE:

1. Move in rotary equipment. D.O.G. to witness BOP tests. BOP equipment to be Class III.
2. Pick up 3-1/2" drill pipe and run in hole with 6-1/4" skirted concave mill. Circulate with polymer mud.
3. Mill liner stub from 5378' to 5405'.
4. Pull out of the hole with the mill.
5. Run in hole with a 6-1/4" x 12" under reamer and under ream the hole from 6-1/4" to 12" from 5364' to 5405'.
6. Pull out of the hole with the under reamer.
7. Run in the hole with open ended drill pipe.
8. Set a 50 sack densified cement plug from 5405' to 5300'.
9. Side track old hole using a Dynadril.
10. Drill a 6-1/4" hole to 5470'.
11. Open 6-1/4" hole to 12" being careful not to hit the old liner stub at 5405'.
12. Run 5" slotted liner as directed.
13. Gravel pack the liner with 10-16 mesh gravel.
14. Set drive on lead seal, change the well over to lease water and move off.

RECEIVED

52

RECEIVED

JAN 21 1 42 AM '86

DIV. OF OIL AND GAS  
LONG BEACH, CA.

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MEMORANDUM  
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# XTRA ENERGY CORP.

LINER DETAIL

WELL NO. 23

7", 23#, K-55

REFERENCE: KB WHICH IS 22' ABOVE GROUND.

5364'

TOP OF FISH AT 5378', CONSISTS OF STRANDED PIPELESS WIRE WRAPPED SCREEN W/ BASE RODS STICKING UP.

5393'

5398'

17.68'

5416'

5420'

17.68'

5' JOHNSON "PIPELESS" STAINLESS STEEL WIRE WRAPPED SCREEN LINER W/ 0.012" SLOTS

5438'

5443'

GVL PKD W/ 135 SX OF 20-40 MESH GVL . CALC VOL 123 SX.

17.68'

5460'

5465'

17.69'

5483'

FOR SEARCH BY  
DIA OF OF AND OVS  
PH 5-1-15 PM 10

JDC/4-8

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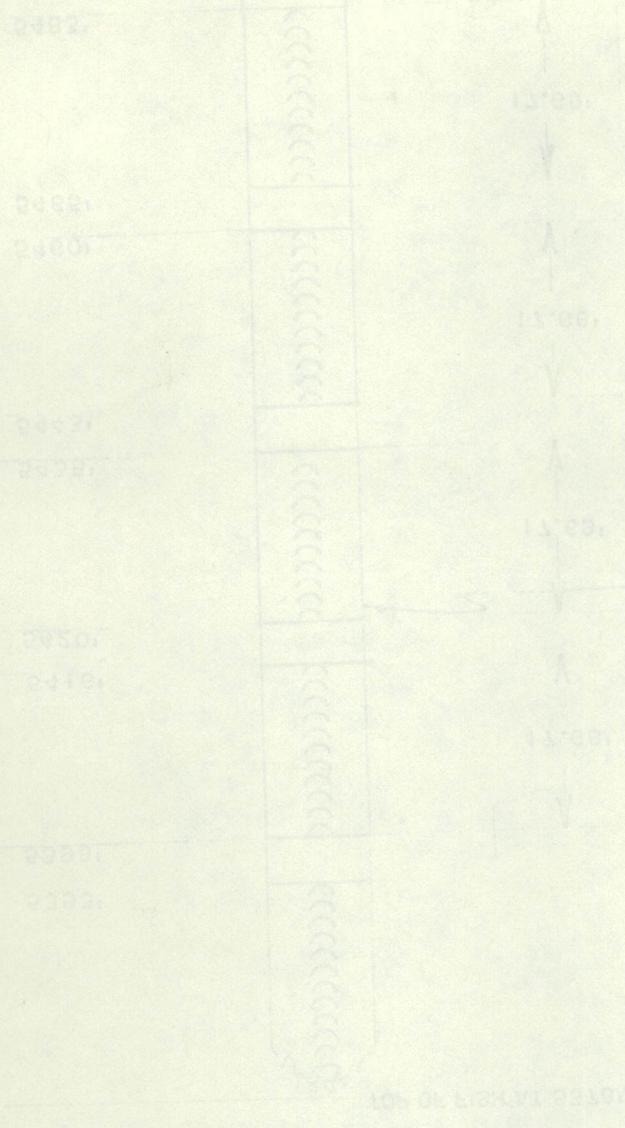
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REV.

JAN 21 1 42 AM  
DIV. OF OIL AND GAS  
LONG BEACH, CA.

100X8-8



WELL NO. 132 BX OF 50-40 BEHN CAL \* CVD AOF 153 BX

SCREEN TUBE NO 0-015. 27018

G. JOHNSON, DIRECTOR, DIVISION OF OIL AND GAS, LONG BEACH, CALIF.

STICKING BY

TOP OF TUBING HEAD CONSISTS OF STANDARD PIPELINE WIRE MESH SCREEN TUBE NO 153 BX

REFERENCE TO WHICH IS 55-4804E SHALLO

WELL NO. 132

SCREEN TUBE

XERO COPY

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

Company Xtra Energy Corporation Well No. "WNF-I" 23  
 API No. 037-22692 Sec. 19, T. 4S, R. 13W, SB B.&M.  
 County Los Angeles Field Wilmington

<u>RECORDS RECEIVED</u>	<u>DATE</u>	<u>STATUS</u>	<u>STATUS</u>
Well Summary (Form OGI00)		Producing - Oil	Water Disposal
History (Form OGI03)	<u>5-7-84</u>	Idle - Oil	Water Flood <input checked="" type="checkbox"/>
Core Record (Form OGI01)		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 <input checked="" type="checkbox"/>
Electric logs:		Abandoned - Gas	LPG Injection
		Gas-Open to Oil Zone	Observation
		Water Flood Source	
		DATE	
		RECOMPLETED <u>8-3-83</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 OGI59 (Final Letter)
5. Form OGD150b (Release of Bond)
6. Duplicate logs to archives
7. Notice of Records due (F-OGD170)

UPDATE CENTER 6/1/84

RECORDS NOT APPROVED

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

RECORDS APPROVED William E. Blannon

RELEASE BOND \_\_\_\_\_

Date Eligible \_\_\_\_\_

(Use date last needed records were received.)

MAP AND MAP BOOK 128 DS 5/10/84

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

**History of Oil or Gas Well**

Operator Xtra Energy Corporation Field Wilmington County Los Angeles  
Well "WNF-1" #23 037-22672, Sec. 19, T. 4S, R. 13W S.B. B. & M.  
A.P.I. No. 037-22672 Name John D. Carmichael Title Sr. Vice President  
Date May 4, 19 84 (Person submitting report) (President, Secretary or Agent)

Signature John D. Carmichael

2501 Cherry Avenue Suite 270 Signal Hill CA 90806 (213) 424-8549  
(Address) (Telephone Number)

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

Date

Well Never Produced.

- 6-22-83 Convert to Injection. MIRU. Tagged fill @ 5352' with rods. Bottom @ 5489'; Riggd up wash pump and ran tubing. Tagged something @ 5373' and pushed it to 5380'.
- 6-23-83 Pushed unknown item to bottom. Circulated hole clean. Pulled and laid down tubing. Ran bell collar, no-go nipple, 1 jt 2-7/8" tubing, Otis 7" packer, tbg pup, 143 jts 2-7/8" tbg.
- 6-24-83 Set pkr with top @ 5255'. Tubing internally coated and hung @ 5300'.
- 8-3-83 On Water Injection 235 B/D @ 1610 psi.

RECEIVED  
MAY 7 2 38 PM '84  
DIV. OF OIL AND GAS  
LONG BEACH, CA.

8-3-83 On West Production 532 W.D. 611910, West.

8-31-83 See West Production 532 W.D. 611910, West.

8-31-83 The West Production 532 W.D. 611910, West.

8-31-83 The West Production 532 W.D. 611910, West.

8-31-83 The West Production 532 W.D. 611910, West.

West Production 532 W.D. 611910, West.

of the West Production 532 W.D. 611910, West.

History of the West Production 532 W.D. 611910, West.

532 W.D. 611910, West. (115) 828-2228

Date: May 7, 1984  
 V.P. No.: 001-2228  
 W.C. No.: 001-2228  
 Operator: West Production 532 W.D. 611910, West.

History of Oil or Gas Well  
 DIVISION OF OIL AND GAS  
 DEPARTMENT OF CONSERVATION  
 RESOURCES AGENCY OF CALIFORNIA  
 ALBANY, CALIFORNIA

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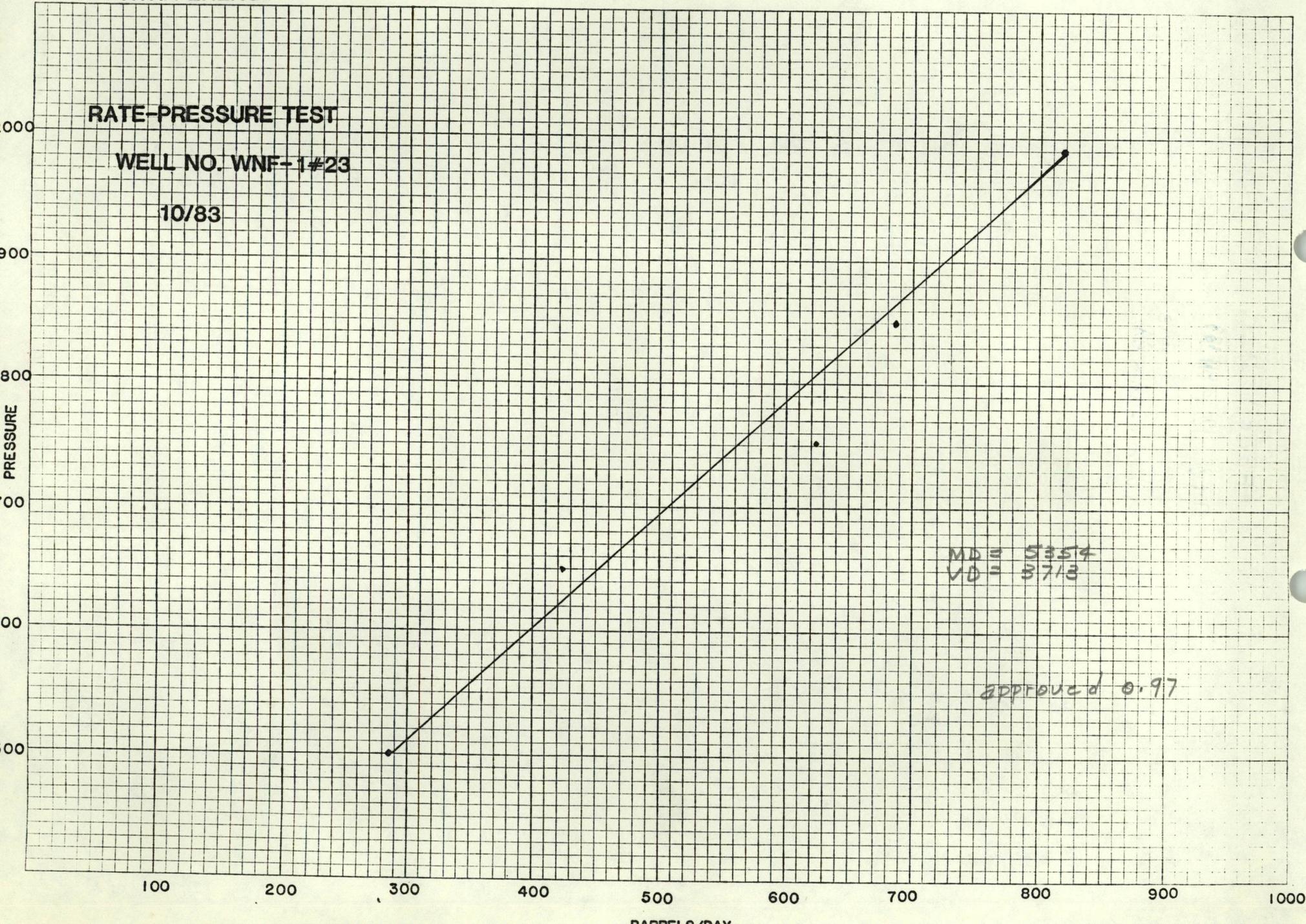
97

# XTRA ENERGY

RATE-PRESSURE TEST

WELL NO. WNF-1#23

10/83



MD = 5354  
VD = 3713

approxd 0.97



E & B Natural Resources Management Corp.

XL OPERATING CO.

T.H.E. DIRECTIONAL DRILLING COMPANY

PAGE 1

"WNF-I"

WELL# 23

037-22672

LEASE WILMINGTON

3/21/83

ELEV. 60' K.B.

RADIUS OF CURVATURE

SURVEY BY EASTMAN

TYPE SINGLE SHOT LAMB. COORD. N 4 041 448 E 4 204 680

MAG. DEC. 14 DEGREES

WELL COURSE - N 5 17' E

MEASURED DEPTH	DRIFT ANGLE	DRIFT DIRECTION	VERTICAL DEPTH	SECTION	LATITUDE FEET	DEPARTURE FEET	DOG LEG/100
0	0 00	N 0 00 E	0.00	0.00	0.00 N	0.00 E	0.00
140	30	S 10 00 W	140.00	-.61	.60 S	.11 W	.36
262	15	N 11 00 W	262.00	-.66	.60 S	.68 W	.61
354	1 00	S 69 00 W	353.99	-.30	.17 S	1.45 W	1.17
450	2 15	N 1 00 W	449.95	.81	1.13 N	3.38 W	2.87
511	4 30	N 3 00 E	510.84	4.39	4.72 N	3.32 W	3.71
568	7 15	N 24 00 E	567.53	10.13	10.36 N	1.97 W	6.05
640	10 00	N 12 30 E	638.71	20.64	20.60 N	1.41 E	4.49
700	13 15	N 14 00 E	697.47	32.62	32.37 N	4.18 E	5.44
762	17 00	N 11 00 E	757.32	48.66	48.16 N	7.68 E	6.18
824	19 45	N 4 00 E	816.15	68.17	67.52 N	10.23 E	5.68
886	22 15	N 5 00 E	874.03	90.39	89.67 N	11.97 E	4.07
948	26 00	N 4 00 E	930.60	115.73	114.93 N	13.96 E	6.08
1005	28 45	N 3 00 E	981.21	141.92	141.09 N	15.56 E	4.89
1066	32 00	N 4 00 E	1033.83	172.75	171.87 N	17.44 E	5.39
1128	34 45	N 6 30 E	1085.60	206.85	205.83 N	20.56 E	4.96
1190	38 00	N 6 30 E	1135.52	243.61	242.36 N	24.72 E	5.24
1253	40 30	N 4 30 E	1184.30	283.46	282.03 N	28.54 E	4.45
1316	43 15	N 4 00 E	1231.20	325.50	323.96 N	31.66 E	4.40
1346	45 00	N 4 00 E	1252.74	346.38	344.80 N	33.12 E	5.83
1471	49 00	N 4 00 E	1337.97	437.76	435.98 N	39.50 E	3.20
1565	52 00	N 4 00 E	1397.76	510.27	508.33 N	44.56 E	3.19
1657	55 30	N 4 00 E	1452.15	584.44	582.33 N	49.73 E	3.80
1750	56 15	N 5 00 E	1504.32	661.42	659.08 N	55.77 E	1.20
1842	57 00	N 5 00 E	1554.93	738.25	735.62 N	62.47 E	.82
1965	57 00	N 5 30 E	1621.92	841.40	838.34 N	71.91 E	.34
2088	57 00	N 6 00 E	1688.91	944.56	940.98 N	82.24 E	.34

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RECEIVED  
JUL 5 1 08 PM '83  
DIV. OF OIL AND GAS  
LONG BEACH, CA.

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

XTRA ENERGY CORP.  
 WELL# 23  
 ELEV. 60' K.B.  
 SURVEY BY EASTMAN  
 TYPE SINGLE SHOT LAMB. COORD. N 4 041 448 E 4 204 680  
 MAG. DEC. 14 DEGREES

T.H.E. DIRECTIONAL DRILLING COMPANY  
 DIST. CARSON  
 LEASE WILMINGTON  
 RADIUS OF CURVATURE

PAGE 2  
 3/21/83

MEASURED DEPTH	DRIFT ANGLE	DRIFT DIRECTION	VERTICAL DEPTH	SECTION	LATITUDE FEET	DEPARTURE FEET	DOG LEG/100
2211	56 45	N 7 30 E	1756.13	1047.53	1043.27 N	94.35 E	1.04
2333	55 00	N 7 30 E	1824.57	1148.44	1143.40 N	107.53 E	1.43
2454	55 00	N 8 00 E	1893.97	1247.47	1241.61 N	120.90 E	.34
2577	56 30	N 8 30 E	1963.19	1349.00	1342.23 N	135.49 E	1.27
2700	56 45	N 9 00 E	2030.86	1451.53	1443.75 N	151.12 E	.40
2825	56 30	N 9 00 E	2099.62	1555.70	1546.85 N	167.45 E	.20
2947	56 15	N 9 30 E	2167.18	1657.04	1647.12 N	183.78 E	.40
3069	56 30	N 9 30 E	2234.74	1758.35	1747.31 N	200.55 E	.21
3122	56 00	N 8 30 E	2264.18	1802.32	1790.83 N	207.44 E	1.83
3154	54 45	N 6 00 E	2282.37	1828.64	1816.95 N	210.76 E	7.52
3280	55 30	N 3 00 E	2354.41	1931.98	1919.99 N	218.87 E	2.04
3404	56 45	N 4 00 E	2423.52	2034.89	2022.75 N	225.15 E	1.21
3526	57 45	N 4 30 E	2489.52	2137.47	2125.07 N	232.75 E	.89
3651	58 30	N 5 00 E	2555.53	2243.61	2230.85 N	241.54 E	.69
3771	58 15	N 6 00 E	2618.45	2345.79	2332.56 N	251.33 E	.74
3801	57 00	N 4 30 E	2634.52	2371.13	2357.79 N	253.65 E	5.93
3832	56 15	N 3 30 E	2651.57	2397.00	2383.61 N	255.46 E	3.62
3958	54 45	N 0 00 E	2722.94	2500.63	2487.38 N	258.63 E	2.58
4081	53 00	N 1 00 E	2795.45	2599.62	2586.72 N	259.50 E	1.57
4204	51 15	N 3 30 E	2870.96	2696.56	2683.72 N	263.31 E	2.14
4327	50 00	N 4 00 E	2948.99	2791.60	2778.59 N	269.53 E	1.06
4452	47 30	N 4 00 E	3031.40	2885.55	2872.33 N	276.09 E	2.00
4575	46 00	N 3 30 E	3115.68	2975.10	2961.72 N	281.95 E	1.26
4696	44 00	N 4 00 E	3201.23	3060.62	3047.09 N	287.55 E	1.68
4819	42 00	N 4 30 E	3291.18	3144.49	3130.74 N	293.77 E	1.65
4943	40 00	N 4 30 E	3384.76	3225.83	3211.84 N	300.15 E	1.61

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

XTRA ENERGY CORP.  
WELL# 23  
ELEV. 60' K.B.  
SURVEY BY EASTMAN

T.H.E. DIRECTIONAL DRILLING COMPANY  
DIST. CARSON  
LEASE WILMINGTON  
RADIUS OF CURVATURE  
TYPE SINGLE SHOT LAMB. COORD. N 4 041 448 E 4 204 680  
MAG. DEC. 14 DEGREES WELL COURSE - N 5 17' E

PAGE 3  
3/21/83

MEASURED DEPTH	DRIFT ANGLE	DRIFT DIRECTION	VERTICAL DEPTH	SECTION	LATITUDE FEET	DEPARTURE FEET	DOG LEG/100
4943	40 00	N 4 30 E	3384.76	3225.83	3211.84 N	300.15 E	0.00
5069	38 00	N 5 00 E	3482.68	3305.12	3290.86 N	306.72 E	1.61
5190	37 00	N 7 00 E	3578.67	3378.77	3364.11 N	314.42 E	1.30
<u>5310</u>	34 00	N 7 00 E	<u>3676.35</u>	3448.42	3433.27 N	322.91 E	2.50
<u>5450</u>	31 15	N 7 00 E	<u>3794.25</u>	3523.86	3508.18 N	332.11 E	1.96
Projected 5489	31 15	N 7 00 E	3827.59	3544.08	3528.26 N	334.58 E	0.00

THE DOGLEG SEVERITY IS IN DEGREES PER ONE HUNDRED FEET.  
THE VERTICAL SECTION WAS COMPUTED ALONG N 5 17' E  
BASED UPON RADIUS OF CURVATURE TYPE CALCULATIONS.

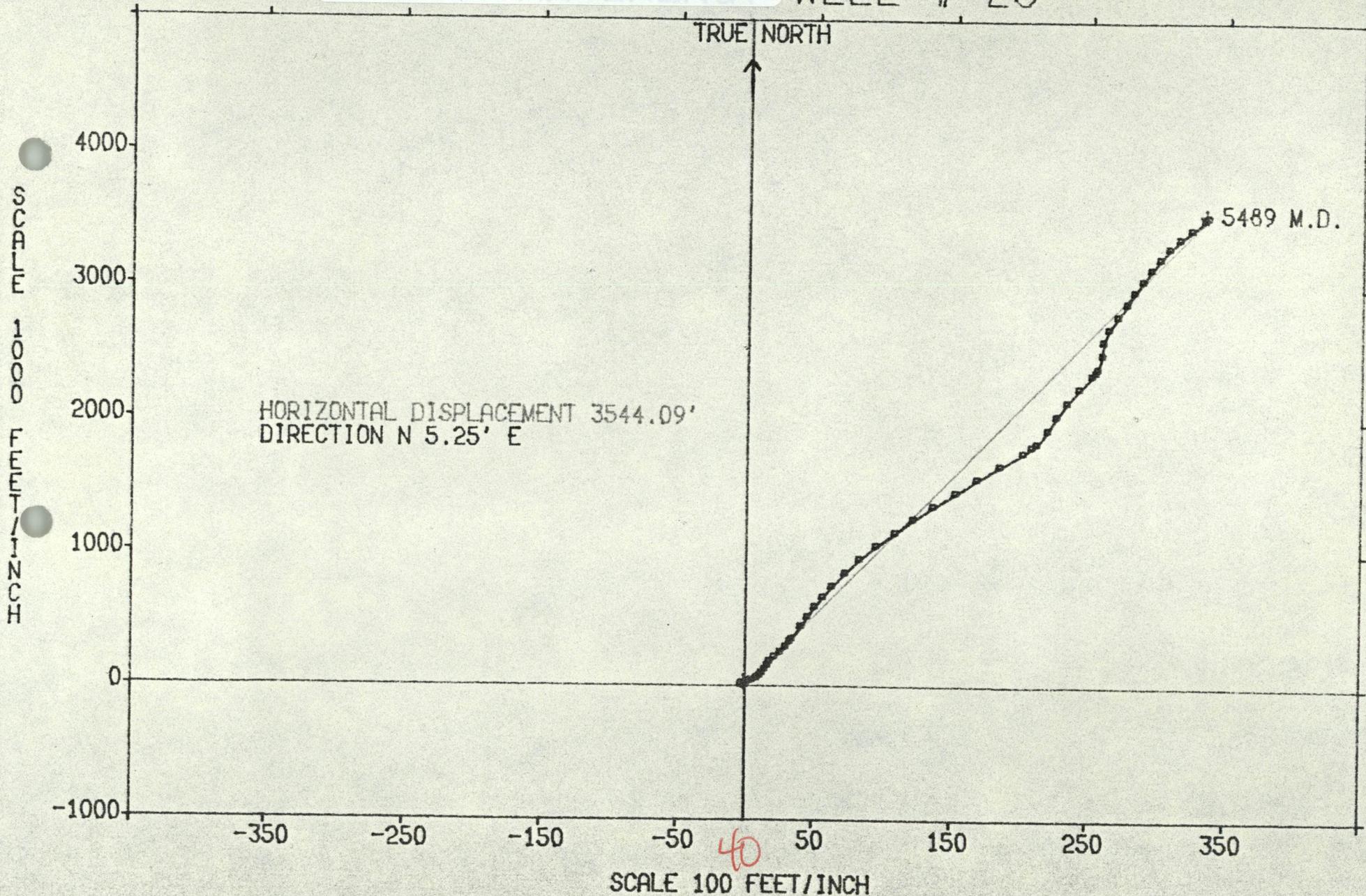
THE BOTTOM HOLE DISPLACEMENT IS 3544.09 FEET IN THE DIRECTION OF N 5 25' E.  
BOTTOM HOLE DISPLACEMENT IS RELATIVE TO WELL HEAD.  
VERTICAL SECTION IS RELATIVE TO WELL HEAD.

2015  
top perf above casing shoe  
- use shoe = 5364'  
= 3721' TVD

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E & B Natural Resources Management Corp.

WELL # 23



DIVISION OF OIL AND GAS

Report on Operations

WATERFLOOD PROJECT  
Sec. 3606 Well

J. D. Carmichael, Agent  
XTRA ENERGY CORPORATION  
Box 9  
Signal Hill, CA 90801

Long Beach Calif.  
February 3, 1984

Your operations at well "WNF-I" 23, API No. 037-22672,  
Sec. 19, T. 4S R. 13W S. B.B. & M. Wilmington Field, in Los Angeles County,  
were witnessed on 10-25-83. E. Santiago, Engineer, representative of  
the supervisor, was present from 1500 to 1600. There were also present Rick Smith,  
Drilling Foreman.

Present condition of well: 16" cem 40'; 10 3/4" cem 603'; 7" cem 5364', cp  
5352', perf 5354' WS0; 5" ld 5319'-5489', perf 5376'-5483'. TD  
5489'.

The operations were performed for the purpose of demonstrating that all of the  
injection fluid is confined to the formations below 5354'.

DECISION: APPROVED.

NOTE: DEFICIENCIES TO BE CORRECTED  
None

DEFICIENCIES CORRECTED  
None

CONTRACTOR  
Petroleum Data Inc.

ES:gah

cc: Update

M. G. MEFFERD  
State Oil and Gas Supervisor  
By [Signature]  
for V. F. Gaede  
Deputy Supervisor

Operator XTRA ENERGY CORPORATION

Well designation "WNF-I" 23 Sec. 19, T. 4S, R. 13W, SB B.&M.

Field WILMINGTON, County LOS ANGELES was tested for water shutoff on 10/25/83. (Name) EDWARD SANTIAGO, representative of the supervisor, was present from 1500 to 1600. Also present were RICK SMITH D.F.

Casing record of well: 16" CEM 40'; 10 3/4" CEM 603'; 7" CEM 5304'; OP 5352'; PERF 5354' WSO;  
5" ID 5319'-5489'; PERF 5376'-5483'. TD 5489'.

The operations were performed for the purpose of (P) 5354

- 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 5354 ' at this time.

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

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

Depth or interval tested 5354  
The hole was open to \_\_\_\_\_ ' for test.

FORMATION TEST: .97

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 720 B/D & 2005 psi on 10/24 1983,  
 fluid confined below 5354 ' (Packer depth 5259 ')



DEPARTMENT OF CONSERVATION  
DIVISION OF OIL AND GAS  
245 WEST BROADWAY, SUITE 475  
LONG BEACH, CA 90802-4455  
(213) 590-5311



January 9, 1984

John D. Carmichael, Agent  
XTRA ENERGY CORPORATION  
Box "9"  
Signal Hill, CA 90801

Waterflood  
Wilmington Field  
Fault Block I Onshore  
Ranger Zone

In accordance with your letter of 10-26-83, approval is granted to increase injection pressure gradients as shown below:

<u>Well No.</u>	<u>Fault Block</u>	<u>Zone</u>	<u>Surface Pressure</u>	<u>Gradient (psi/ft)</u>
"WNF-I" 23	I	Ranger	1990	0.97

The well injection rates and pressures shall be controlled in a manner that will achieve proper pressure and fluid distribution without raising reservoir pressures in the vicinity of producing wells above the estimated original pressure of the zones.

Sincerely,

*William E. Brannon*

William E. Brannon  
Enhanced Recovery Engineer

WEB:mh

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

M. G. MEFFERD, State Oil and Gas Supervisor

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

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

Sec. 20-4S-13W

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

Sec. 29-4S-13W

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

# REPORT ON PROPOSED OPERATIONS

WATERFLOOD PROJECT  
SEC. 3606 WELL

848  
(field code)  
03  
(area code)  
20  
(new pool code)  
00  
(old pool code)

J. D. Carmichael, Agent  
XTRA ENERGY CORPORATION  
Box 9  
Signal Hill, CA 90801

Long Beach, California  
July 11, 1983

Your \_\_\_\_\_ proposal to convert to injection well 19,  
A.P.I. No. 037-22846, Section 19, T. 4S, R. 13W, S.B. B. & M.,  
Wilmington field, Fault Block I Onshore area, Ranger pool,  
Los Angeles County, dated 6-30-83, received 7-5-83 has been examined in conjunction with records  
filed in this office.

THE PROPOSAL IS APPROVED PROVIDED:

1. This well shall conform to the provisions set forth in our letter of 6-24-83 approving the project.
2. THIS DIVISION SHALL BE NOTIFIED TO witness the running of an injection survey.

- NOTE:
- a. The base of the fresh water sands is at 1900'. The fresh water is protected by the 7" casing cemented at 5098' with sufficient cement to fill to 1855'±.
  - b. The water to be injected is fresh water and is obtained from Dominguez Water District.
  - c. The water is to be injected into the Ranger zone which extends from 5108' to 5250' and contains water. The formation water tests approx. 27,000 ppm TDS.
  - d. Approx. surface location of well: 131 feet North along property and 137 feet East of right angles to said line from the Southwest corner of property which is the Northeast corner of Main Street and the AT & SF right-of-way.

WEB:sc

cc: Update  
EDP  
Project File

Blanket Bond

SI CORDOVA, ACTING  
~~XXXXXXXXXX~~, State Oil and Gas Supervisor

By *[Signature]*  
for V. F. GAEDE Deputy Supervisor  
Acting

A copy of this report and the proposal must be posted at the well site prior to commencing operations.

Records for work done under this permit are due within 60 days after the work has been completed or the operations have been suspended.

DIVISION OF OIL AND GAS

Notice of Intention to Rework Well

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

FOR DIVISION USE ONLY		
BOND	FORMS	
	OGD 114	OGD 121
Blanket	11-5-83 EP	11-5-83 EP

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. 23, API No. 037-22672  
*(Well designation)*  
Sec. 19, T. 4S, R. 13W, S.B.B. & M., Wilmington Field, Los Angeles County.

The present condition of the well is as follows:

- Total depth 5489'
- Complete casing record, including plugs and perforations  
 10 3/4", 40.5#, K-55, 608'  
 7" , 23# , K-55, 5364'  
 5" . 18# , N-80, top @ 5319', bottom @ 5489', Johnson pipeless, SS, Wire wrapped screen fr 5376' to 5483'.

- Present producing zone name Ranger ; Zone in which well is to be recompleted Ranger
- Present zone pressure 1350 psi ; New zone pressure 1350 psi
- Last produced Never Produced (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:  
Convert from producer to injector. No change in the casing or liner are planned.

**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)*

Xtra Energy Corporation  
*(Name of Operator)*  
By John D. Carmichael  
*(Print Name)*

Telephone Number (213) 424-8549

John D. Carmichael 6/30/83  
*(Signature) (Date)*

RECEIVED

JUL 5 1 07 PM '83  
DIV. OF OIL AND GAS  
LONG BEACH, CA.

CONSENT THAT PRODUCER TO SUBMIT TO CHANGE IN THE STATUS OF THIS AND OTHER

1	Present production rate	1330 bbl	1330 bbl
2	Present production rate	1330 bbl	1330 bbl
3	Present production rate	1330 bbl	1330 bbl

1. The present conditions of the well are as follows:

2. Complete casing record including logs and descriptions:

1	Present production rate	1330 bbl	1330 bbl
2	Present production rate	1330 bbl	1330 bbl
3	Present production rate	1330 bbl	1330 bbl

DIVISION OF OIL AND GAS

SEARCHED	INDEXED
SERIALIZED	FILED
JUL 5 1983	
DIVISION OF OIL AND GAS	

NOTICE OF INTENTION TO REMOVE WELL

DIVISION OF OIL AND GAS

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

Company Xtra Energy Corporation Well No. 23  
 API No. 037-22672 Sec. 19, T. 4S, R. 13W, SB B.&M.  
 County Los Angeles Field Wilmington

<u>RECORDS RECEIVED</u>	<u>DATE</u>	<u>STATUS</u>	<u>STATUS</u>
Well Summary (Form OGI00)	<u>7-5-83 (2)</u>	Producing - Oil	<input checked="" type="checkbox"/> Water Disposal
History (Form OGI03)	<u>7-5-83 (2)</u>	Idle - Oil	<input type="checkbox"/> Water Flood <input checked="" type="checkbox"/>
Core Record (Form OGI01)		Abandoned - Oil	<input type="checkbox"/> Steam Flood
Directional Survey	<u>7-5-83 2</u>	Drilling - Idle	<input type="checkbox"/> Fire Flood
Sidewall Samples		Abandoned - Dry Hole	<input type="checkbox"/> Air Injection
Other		Producing - Gas	<input type="checkbox"/> Gas Injection
Date final records received		Idle - Gas	<input type="checkbox"/> CO <sub>2</sub> Injection
Electric logs: <u>2-100' / 2"</u> <u>2-100' / 4"</u>		Abandoned - Gas	<input type="checkbox"/> LPG Injection
		Gas-Open to Oil Zone	<input type="checkbox"/> Observation
		Water Flood Source	
		DATE <u>4-1-83</u>	
		RECOMPLETED	
		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 OGI59 (Final Letter)
5. Form OGD150b (Release of Bond)
6. Duplicate logs to archives
7. Notice of Records due (F-OGD170)

UPDATE CENTER 8/26/83

RECORDS NOT APPROVED

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

RECORDS APPROVED [Signature]

RELEASE BOND \_\_\_\_\_  
 Date Eligible \_\_\_\_\_  
 (Use date last needed records were received.)  
 MAP AND MAP BOOK [Signature]

# WELL SUMMARY REPORT

Operator <b>Xtra Energy Corporation</b>		Well <b>Well No. 23</b>			
Field <b>Wilmington</b>		County <b>Los Angeles</b>		Sec. <b>19</b>	T. <b>4S</b>
				R. <b>13W</b>	B.&M. <b>S.B.</b>
Location (Give surface location from property or section corner, street center line and/or California coordinates) <b>105 feet East and 131 feet North from the Southwest corner of the property which is the Northeast corner of Main St. and ATSF Right-of-way.</b>				Elevation of ground above sea level <b>38'</b>	

Commenced drilling (date) <b>3/9/83</b>	Total depth			Depth measurements taken from top of: <input type="checkbox"/> Derrick Floor <input type="checkbox"/> Rotary Table <input checked="" type="checkbox"/> Kelly Bushing Which is <b>12</b> feet above ground					
	(1st hole) <b>5489'</b>	(2nd)	(3rd)						
Completed drilling (date) <b>4/1/83</b>	Present effective depth <b>5489'</b>			<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="width: 80%;">GEOLOGICAL MARKERS</th> <th style="width: 20%;">DEPTH</th> </tr> <tr> <td style="text-align: center;"><b>"F" Marker</b></td> <td style="text-align: center;"><b>5350'</b></td> </tr> </table>		GEOLOGICAL MARKERS	DEPTH	<b>"F" Marker</b>	<b>5350'</b>
GEOLOGICAL MARKERS	DEPTH								
<b>"F" Marker</b>	<b>5350'</b>								
Commenced producing (date)	Junk								
<input type="checkbox"/> Flowing <input checked="" type="checkbox"/> Pumping <input type="checkbox"/> Gas lift									
Name of producing zone(s)  <b>Ranger</b>					Formation and age at total depth				

	Clean Oil (bbl per day)	Gravity Clean Oil	Percent Water including emulsion	Gas (Mcf per day)	Tubing Pressure	Casing Pressure
Initial Production			NEVER PRODUCED			
Production After 30 days						

CASING RECORD (Present Hole)								
Size of Casing (API)	Top of Casing	Depth of Shoe	Weight of Casing	Grade and Type of Casing	New or Second Hand	Size of Hole Drilled	Number of Sacks or Cubic Feet of Cement	Depth of Cementing (if through perforations)
10 3/4"	Surf	603'	40.5#	J-55	New	14 3/4	375 sx	
7"	Surf	5364'	23#	K-55	New	9 7/8	445 sx	
5"	5319'	5489'	18#	N-80	New	9 7/8-12" GVL PKD		

PERFORATED CASING (Size, top, bottom, perforated intervals, size and spacing of perforation and method.)  
 5" Johnson "Pipeless" Stainless Steel wire-wrapped screen w/ 0.012" slots.  
 Gravel packed w/84 sx of 20-40 mesh gravel (See liner detail attached).

Was the well directionally drilled? If yes, show coordinates at total depth  
 Yes    No   **3528' North & 335' East at 5489'**   TVD = 3828'

Electrical log depths  
**5489' to 600'**

Other surveys  
**none**

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.

Name <b>Xtra Energy Corporation</b>		Title <b>Senior Vice President</b>	
Address <b>2501 Cherry Avenue Suite 270</b>		City <b>Signal Hill</b>	Zip Code <b>90806</b>
Telephone Number <b>(213) 424-8549</b>	Signature 	Date <b>June 24, 1983</b>	

29

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LONG BEACH, CA.

3201 CRESTA WALKER DRIVE 330  
YUCAIPA CALIFORNIA 91098

1000 TO 1000

1000 TO 1000

1000 TO 1000

STANDARD FORM NO. 100

1000 TO 1000

DATE	DESCRIPTION	AMOUNT	INITIALS	REMARKS
7-30	...	...	...	...
7-22	...	...	...	...
7-22	...	...	...	...

DATE	DESCRIPTION	AMOUNT	INITIALS	REMARKS
...	...	...	...	...

NAME OF COMPANY

ADDRESS

CITY

STATE

ZIP

DATE

...

...

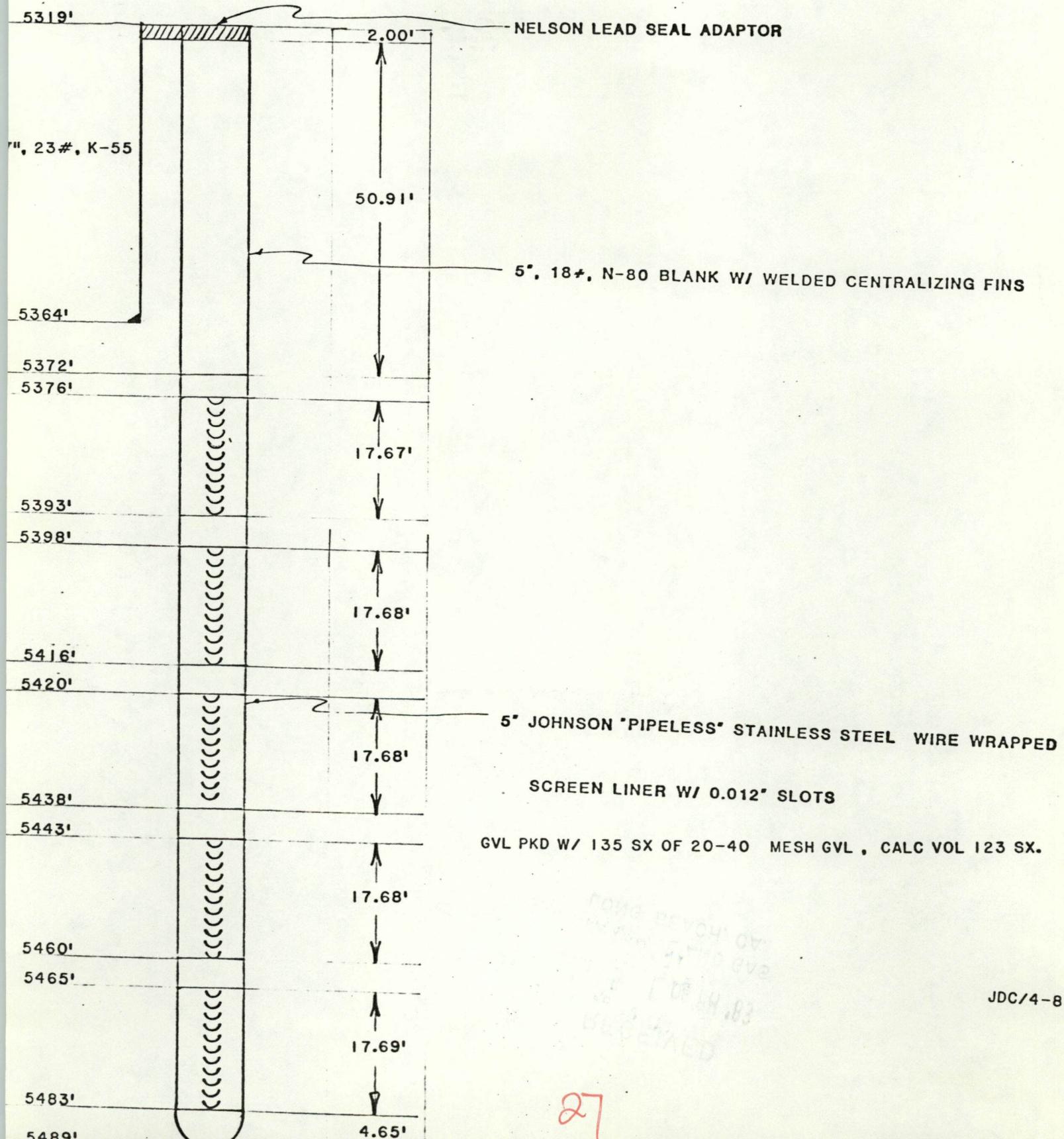
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# XTRA ENERGY CORP.

## LINER DETAIL

### WELL NO. 23



RECEIVED  
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DIV. OF OIL AND GAS  
LONG BEACH, CA.

00014-82

DATE: 5/1/83 BY: [illegible] 153 BX

SCREEN: 15/100, 20/100

W. JOHNSON, SUPERVISOR, STEEL WIRE MESH

2" 100# 15-20 153 BX

20' 3 1/4"

WELDED WIRE MESH

WELL NO. 52

DATE: 5/1/83 BY: [illegible]

XERO COPY 26

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 23 Sec. 19, T 4S, R 13W S. B. B. & M.  
 A.P.I. No. 037-22672 Name John D. Carmichael Title Senior Vice President  
 Date March 31, 19 83 (Person submitting report) (President, Secretary or Agent)

Signature *John D. Carmichael*

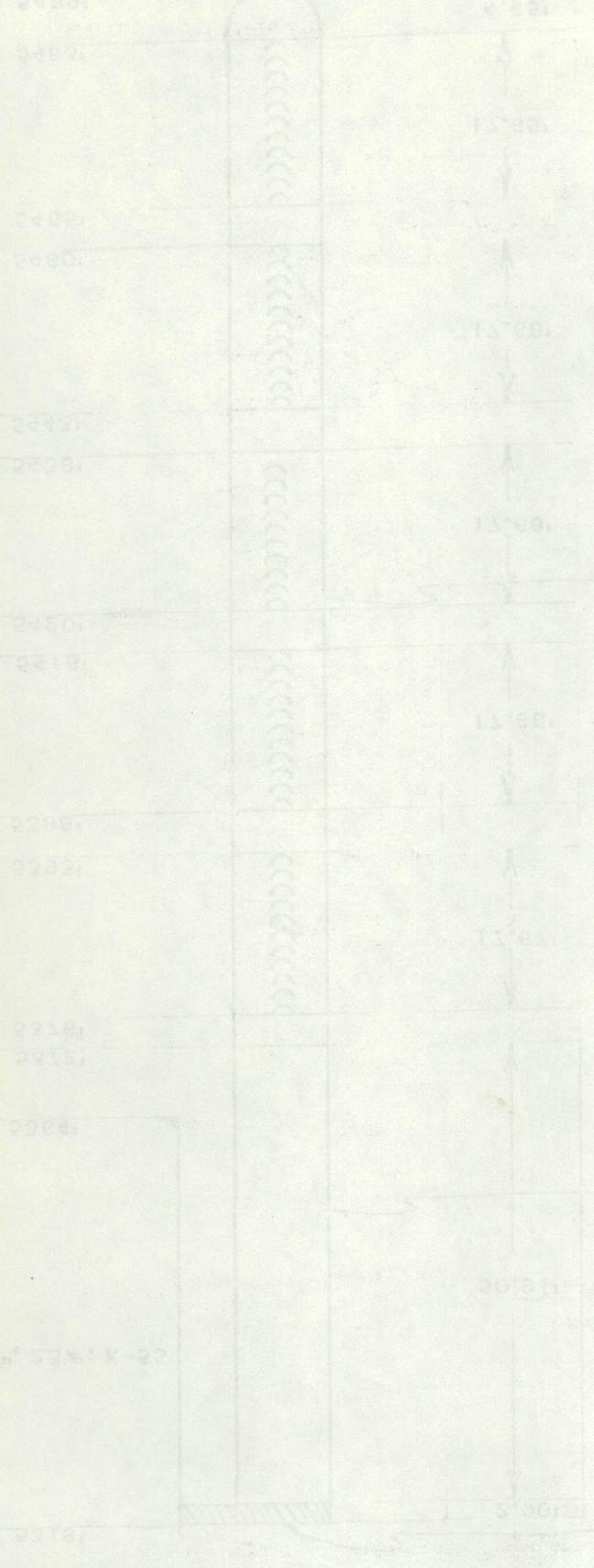
2501 Cherry Avenue, Suite 270, Signal Hill, CA 90806 (213) 424-8549  
 (Address) (Telephone Number)

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

- | Date    |  |
|---------|--|
| 3-9-83  | MI fr Well No. 26 RD, RU, bld berms, spud in @ 3 A.M. 3-9-83, now drlg & surveying @ 140' @ 6 A.M. CB mud wt 70#/CF, Vis 44", WL 12.4 cc, Cake 2/32", Solids 7.0%, Sand 0.25%, 2100 ppm Cl, Oil 1.0% pH 9.5.   |
| 3-10-83 | Drlg & surveying 14-3/4" hole fr 140' to 400', RT for Dynadril, drld & surveyed 9-7/8" hole fr 400' to 609', circ cln, POH, RIH w/14-3/4" hole opnr, opn 9-7/8" hole to 14-3/4" fr 400' to 609', C & C mud for csg, POH, H & H Tong Service ran 15 jts 10-3/4", 40.5# csg, shoe @ 603', B-J pmpd 300 sx G cmt mxd 1:1:4 followed w/75 sx "G" neat cmt, good cmt rtns, CIP @ 6:50 A.M. SS @ 568', 7° 15', N 24° E, hole is 3.5' left & 2' lo. CB mud wt 74.5#/CF, Vis 55", WL 11.5 cc, Cake 3/32", Solids 12.0%, Sand 1.25%, 2000 ppm Cl, Oil 8.0%, ph = 10.0. Rotating Time 5.5 hours. |
| 3-11-83 | Fin cmtg 10-3/4" csg, WOC, cut off 27.60' of csg, weld on csg head, N/U BOP, RIH to 379', test BOP w/1000 psi, OK'd by DOG, C/O cmt & D/O shoe, C & C mud, POH, RIH w/ Dynadril, drld & surveyed 9-7/8" hole fr 609 to 806' w/survey ev 60', SS @ 762', 17°, N 11° E, hole is 3' rt & 7.5' lo. CB mud wt 70#/CF, Vis 51", WL 11.5 cc, Cake 3/32", Solids 7.5%, Sand 0.5%, 2100 ppm Cl, Oil 1.0%, pH = 12.0.  |
| 3-12-83 | Cont'd Dynadrilg & surveying 9-7/8" hole fr 806' to 1391', RT for bldg assy, ream Dynadril hole fr 635' to 1391', drld & surveyed fr 1391' to 1657', C & C mud, RT for locked in assy, cont'd drlg & surveying 9-7/8" hole fr 1657' to 1842' @ 6 A.M. SS @ 1750', 56° 15', N 5° E, hole is 6' left & 34' lo. CB mud wt 70#/CF, Vis 45", WL 8.0 cc, Cake 2/32", Solids 7.5%, Sand 0.5%, 1900 ppm Cl, Oil 5%, ph 10.5.   |
| 3-13-83 | Cont'd drlg & surveying 9-7/8" hole w/locked in assy fr 1842' to 3098', circ cln, RT for Dynadril, Orientating Dynadril @ 6 A.M. SS @ 3069', 56° 30', N 9° 30' E, hole is 38' rt & 6' lo. CB mud wt 72#/CF, Vis 45", WL 5.0 cc, Cake 1/32", Solids 8.0%, Sand 0.5%, 1800 ppm Cl, Oil 9.0%, pH 9.5.   |
| 3-14-83 | Dynadrld 9-7/8" hole fr 3098' to 3200', RT for locked assy, drld & surveyed 9-7/8" hole fr 3200' to 3741' @ 6 A.M. SS @ 3651', 58° 30', N 5° E, hole is 33' rt & 11' hi. CB mud wt 74#/CF, Vis 49", WL 5.1 cc, Cake 1/32", Solids 11.0%, Sand 0.25%, 1700 ppm Cl, Oil 8.0%, pH 9.5.  |

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JUL 5 1 08 PM '83  
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LONG BEACH, CA.

10014-83



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WELL NO. 53

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- 3-15-83 Cont'd drlg & surveying 9-7/8" hole fr 3741' to 3787', RT for Dynadril, drld fr 3787' to 3888', RT for angle dropping assy, now drlg & 4039' @ 6 A.M. SS @ 3958', 54° 45', due North, hole is 28' rt & 19' hi. CB mud wt 75#/CF, Vis 40", WL 5.2 cc, Cake 1/32", Solids 12.0%, Sand 0.25%, 1700 ppm Cl, Oil 8.0%, pH 9.0.
- 3-16-83 Cont'd drlg & surveying 9-7/8" hole fr 4039' to 4696' @ 6 A.M. SS @ 4575' 46°, N 3.5° E., hole is 8' rt & 5' high. CB mud wt 75#/CF, Vis 50", WL 5.0 cc, Cake 1/32", Solids 13%, Sand 0.25%, 1500 ppm Cl, Oil 7.0%, pH 9.5.
- 3-17-83 Cont'd drlg & surveying 9-7/8" hole, POH to chng bit, now drlg & surveying 9-7/8" hole fr 4696' to 5281' @ 6 A.M. CB mud wt 77#/CF, Vis 45", WL 5.4 cc, Cake 1/32", Solids 14%, Sand 0.25%, 1400 ppm Cl, Oil 6.0%, pH 9.5.
- 3-18-83 Cont'd drlg & surveying 9-7/8" hole fr 5281' to 5474', circ cln, POH, RU for IES, RIH, Drlg 15 more ft per Mel Wright, C & C mud, POH. Laying dn 4-1/2" DP @ 6 A.M. SS @ 5450' 31° 15', N 7° E. Hole is 10' rt & 21' lo. CB mud wt 77#/CF, Vis 48", WL 4.9 cc, Cake 1/32", Solids 14%, Sand 0.25%, 1350 ppm Cl, Oil 6%, pH 9.6.
- 3-19-83 Fin LD DP, H & H Tong Serv RU & ran 148 jts of 7", 23# Buttress csg & 1 Creighton csg adjstr, shoe @ 5364', FC @ 5280', csg adjstr @ 1500', B-J Cmtrs RU & pmpd 80 CF mud sweep, 360' sx "G" cmt mxd 1:1:4, 85' sx of "G" cmt neat, total of 836 CF of slurry, drpd top plg, dsplsd w/1170 CF of 76#/CF mud, bmpd plg w/1500 psi, top of cmt calc @ 1755' TVD, CIP @ 10:30 P.M. Cut off 29.00' of 7" csg, weld on 7" csg head, N/U BOP's. Now P/U 3-1/2" DP @ 6 A.M. CB mud wt 76#/CF, Vis 47", WL 4.8 cc, Cake 2/32", Solids 14.0%, Sand 0.25%, 1400 ppm Cl, Oil 6.0%, pH 9.8. 1.779 cf  
0.29 .345
- 3-20-83 Fin P/U 3-1/2" DP, tst csg & BOP to 1500 psi, OK, C/O plg @ 5274', FC @ 5280' & cmt to 5355', circ cln & POH, RIH w/Howco WSO tools, perf'd 4 1/2" holes @ 5352', set pkr, now tstg for WSO @ 6 A.M. CB mud wt 76#/CF, Vis 50", WL 5.0 cc, Cake 2/32", Solids 14.0%, Sand 0.25%, 1450 ppm Cl, Oil 6.0%, pH 11.7.
- 3-21-83 Med to hvy blo for 1 hr, 1200' of fluid rise, tst wet, POH, clsd blind rams, inj 40 SPM @ 1500 psi, RIH w/ RTTS, set @ 5185', unable to brk form w/3000 psi, unable to lwr RTTS, rvse out, POH, RIH w/Howco WSO tools, set pkr @ 5185', opn tool, li to med blo, perfs pkg off, DOG said no test, POH, rec 350' of mud & snd, RIH w/bit & csg scrpr, C/O snd fr 5185' to 5355', clsd bag & pmpd to form w/2.5 bbls/min @ 1400 psi. Now POH for sqz tool @ 6 A.M. CB mud wt 76#/CF, Vis 48", WL 5.0 cc, Cake 2/32", Solids 14.0%, Sand 0.25%, 1475 ppm Cl, Oil 6.0%, pH 11.6.
- 3-22-83 Fin POH, RIH w/RTTS, set @ 5185', unable to brk form w/3000 psi, lwrd pkr to top of cmt, rvse circ cln, P/U & set pkr @ 5348', WSO holes @ 5352', brk form dn @ 3.5 bbls/min w/2000 psi, sqzd 40 bbls of wtr followed by 114 CF of "G" neat cmt, dsplsd w/173 CF "G" cmt, P/U 200', dsplsd w/74 CF of mud, left 85 linear ft of cmt in csg, hold press 3 hrs, POH, RIH w/6-1/4" bit & csg scrpr, pmp out green cmt & cmt cut mud, clsd rams & inj w/1200 psi @ 40 SPM, sqz job no good, POH w/bit & csg scrpr @ 6 A.M. CB mud wt 76#/CF, Vis 51", WL 4.9 cc, Cake 2/32", Solids 14.0%, Sand 0.25%, 1475 ppm Cl, Oil 6.0%, pH 11.4.



- 3-23-83 RIH w/RTTS, set @ 5348', sqzd 114 CF "G" neat cmt, left 11 CF in csg, mxd cmt w/2% CaCl<sub>2</sub>, P/U to 5185', held 1800 psi on sqz for 3 hrs, POH, RIH w/6-1/2" bit & csg scrpr, C/O to 5356', circ cln, POH, RIH w/Howco WSO tools, perf'd 4 1/2" holes @ 5354', set pkr @ 5292', opn tool, li blo for 10 min then dead, test dry & OK'd by DOG, POH, RIH w/6-1/4" bit, C/O cmt fr 5356' to shoe @ 5364', D/O shoe & C/O to 5484', circ cln, now chng over to Polymer mud @ 6 A.M. CB mud wt 76#/CF, Vis 49", WL 4.9 cc, Cake 2/32", Solids 14.0%, Sand 0.25%, 1500 ppm Cl, Oil 6.0%, pH 11.6.
- 3-24-83 Fin chng over to Polymer mud, POH w/bit, RIH w/King under reamer, opn 9-7/8" hole to 12" fr 5364' to 5489', regauge hole, POH, M/U 5" lnr & gvl pk tools, RIH, bull nose @ 5489', now gvl pkg @ 6 A.M. Polymer mud wt 72#/CF, Vis 38", WL 13.4 cc, Cake - film, Solids 2.8%, Sand - trace, 121,000 ppm Cl, Oil - trace, pH 8.5.
- 3-25-83 J B Nelson cont'd gvl pkg, glv bridged w/65 sx in place, unable to brk bridge w/ B-sub & rvse circ, Calc vol 85 sx, POH, Sch ran gvl pk log, fnd bridge @ 5398' to 5407', RIH w/A & A wsh tool to 5412', unable to circ thru wsh tool, P/U into 7" csg, unable to unplug wsh tool, now POH @ 6 A.M. Polymer mud wt 72#/CF, Vis 36", WL 13.0 cc, Cake - film, Solids 2.5%, Sand - trace, 120,000 ppm Cl, Oil - trace, pH 8.5.
- 3-26-83 Fin POH, replace wsh tool, RIH w/A & A wsh tool, wshd lnr fr 5318' to 5438' w/2 passes, rvse circ cln, POH, RIH w/J.B. Nelson gvl pkg tools, stab in lnr, now gvl pkg @ 6 A.M. Polymer mud wt 72#/CF, WL 13.2 cc, Cake - film, Solids 2.5%, Sand - trace, 120,500 ppm Cl, Oil - trace, 8.5 pH.
- 3-27-83 Cont'd gvl pkg, pmpd 84 sx gvl, rvsd out 14 sx, POH, fnd gvl pkm cups wshd out, RIH w/new tools, stab into lnr, unable to ~~omp~~ any more gvl, lnr pkd off rvse out, POH, RIH w/2-3/8" tbg tail, C/O snd fr 5480' to 5489', circ cln, POH, Sch ran gvl log, sonde would not pass 5392', logged top of lnr, shows good pack, Sch POH @ 6 A.M. Polymer mud wt 71#/CF, Vis 36", WL 13.4 cc, Cake - film, Solids 2.1%, Sand - trace, 107,000 ppm Cl, Oil - trace, pH 8.5.
- 3-28-83 RIH w/2-7/8" collar, unable to wrk into lnr, POH, RIH w/ IB, shows about 2/3 of lnr adaptor bent or brkn off, RIH w/tapered mill, polish 5" lnr adaptor, POH, RIH w/ 5" inside cutter, wrk in to lnr, cut 5" lnr @ 5316', POH w/cutter @ 6 A.M. Polymer mud wt 71#/CF, Vis 36", WL 13.4 cc, Cake - film, Solids 2.1%, Sand - trace, 107,000 ppm Cl, Oil - trace, pH 8.5.
- 3-29-83 Fin POH w/csg cutter, RIH w/spear, jars & B-sub, eng'd lnr, unable to pull fish, rlstd spear, POH, RIH w/csg cutter w/new knives, cut 5" csg @ 5318', POH, knives worn off, chng to new cutter, RIH, cut csg @ 5321', POH, rec 9' of 5" blk lnr & Nelson lnr adaptor @ 6 A.M. Polymer mud wt 70#/CF, Vis 35", WL 13.4 cc, Cake - film, Solids 2.0%, Sand - trace, 105,000 ppm Cl, Oil - trace, 8.5 pH.

3-31-83 Sch ran gravel log, tool stopped @ 5435', unable to go deeper, RIH w/2-7/8" STC on 2-7/8" tbg, obstruction @ 5421', rvse circl, C/O to 5489', got approx 5 gal gvl, POH, Sch ran gvl log, stopped @ 5392', POH, rlsd Sch, RIH w/lead seal, set @ 5319', chnge over to lease SW, POH LD 3-1/2" DP @ 6 A.M.

4-1-83 Fin LD DP, Rmvd BOP, N/U well head, RR @ 10:00 A.M. RD to move to No. 19.

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APR 2 1983  
OFFICE OF THE  
COMMISSIONER OF  
ENERGY

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JUL 5 1 08 PM '83  
DIV. OF OIL AND GAS  
LONG BEACH, CA.

3-1-83  
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DIVISION OF OIL AND GAS

Report on Operations

SEC. 3606 WELL

John D. Carmichael, Agent  
XTRA ENERGY CORPORATION  
717 Walton Street  
Signal Hill, CA 90806

Long Beach Calif.  
April 19, 1983

Your operations at well 23, API No. 037-22672,  
Sec. 19, T. 4S, R13W, S.B. B.& M. Wilmington Field, in Los Angeles County,  
were witnessed on 3-23-83. G. Muggelberg, Engineer, representative of  
the supervisor, was present from 0220 to 0310. There were also present Jim Stewart,  
Drilling Foreman.

Present condition of well: 16" cem 40'; 10-3/4" cem 603'; 7" cem 5364', cp 5352', perf  
5354' WSO. TD 5489'. (Drilling).

The operations were performed for the purpose of Testing the 7" shut-off at 5354' with a  
formation tester.

DECISION: APPROVED.

NOTE: DEFICIENCIES TO BE CORRECTED  
NONE

DEFICIENCIES CORRECTED  
1. Two wet tests.

CONTRACTOR: Cal Pacific Drilling Company

GM: dh

cc: Update

Blanket Bond

SI CORDOVA  
ACTING State Oil and Gas Supervisor  
By [Signature]  
ACTING Deputy Supervisor  
V. F. GAEDE

18 FJ ✓

TH 4-13-83

Operator Xtra Energy Corporation

Well designation 23 Sec. 19, T. 4S, R. 13W, SB B.&M.

Field Wilmington, County Los Angeles was tested for water shutoff on 3/23/83. (Name) G. Muggelberg, representative of the supervisor, was present from 0220 to 0310. Also present were Jim Stewart

Casing record of well:

16" cem 40'; 10 3/4" cem 603'; 7" cem 5364', cp 5352, perf 5354' WSO. TD 5489'. (Drilling).

The operations were performed for the purpose of (D-1) 7" 5354'

- The 7 " shutoff at 5354' 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 \_\_\_\_\_ ' at this time.

Hole size: 9 7/8 " fr. 603 ' to 5489 ' ; \_\_\_\_\_ " to \_\_\_\_\_ ' ; & \_\_\_\_\_ " to \_\_\_\_\_ '

Casing				Cemented			Top of Fill		Sqd. Away	Final Press	Test psi/min. Perfs.
Size	Wt.	Top	Bottom	Date	MO-Depth	Volume	Annulus	Casing			
7"	23#	Ø	5364'	3/19/83	Bump Plugs	836cf	3141'	5274'	816'	1500	—
				3/22/83	Pk @ 5181'	361cf	—	N/A	361'	1800	5352
				3/22/83	Pk @ 5185'	356cf	—	5278'	345'	1800	5352

Depth or interval tested 4-1/2" hole @ 5354'

The hole was open to 5356 ' for test.

FORMATION TEST:

Packer(s) 5292 ' & \_\_\_\_\_ ' Tail 5312 ' Bean size 3/4 " Cushion Ø

IHP 1864 IFP 23.4 FFP 35.1 FHP 1841

Blow 5 min soft blow; dead remainder

Open for test 1 Hr. Ø min. Fluid entry 10' drilling mud

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 \_\_\_\_\_ B/D & \_\_\_\_\_ psi on \_\_\_\_\_ 19\_\_, fluid confined below \_\_\_\_\_ ' (Packer depth \_\_\_\_\_ ')

185-288

DEFICIENCIES—TO BE CORRECTED

None

DEFICIENCIES—CORRECTED

Two wet tests

CONTRACTOR

Cal Pacific Drilling Co.

Date	Time	Well	Casing	Size	Wet	Top	Bottom	Remarks

DIVISION OF OIL AND GAS

Report on Operations

SEC. 3606 WELL

John D. Carmichael, Agent  
XTRA ENERGY CORPORATION  
717 Walton Street  
Signal Hill, CA 90806

Long Beach Calif.  
April 19, 1983

Your operations at well 23, API No. 037-22672,  
Sec. 19, T4S, R 13W, S.B. B. & M. Wilmington Field, in Los Angeles County,  
were witnessed on 3-10-83. S. Mulqueen, Engineer, representative of  
the supervisor, was present from 2100 to 2200. There were also present J. Stewart,  
Drilling Foreman.

Present condition of well: 16" cem 40'; 10-3/4" cem 603'. TD 609' (Drilling).

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

DECISION: APPROVED.

NOTE: DEFICIENCIES TO BE CORRECTED  
NONE

- DEFICIENCIES CORRECTED
1. Nitrogen bottle connection leaked.
  2. Pump stroke counter not working.
  3. All valve handles on the choke manifold missing.

CONTRACTOR: Cal Pacific Drilling Company

SM:dh

cc: Update

Blanket Bond

ACTING SI CORDOVA  
State Oil and Gas Supervisor  
By [Signature]  
ACTING Deputy Supervisor  
V. F. GAEDE

15 Fu

DIVISION OF OIL AND GAS  
BLOWOUT PREVENTION EQUIPMENT MEMO

*TH 4-13-83*

T 183267

Operator XTRA ENERGY CORPORATION Well 23 Field WILMINGTON County LOS ANGELES

VISITS: Date 3-10-83 Engineer S. MULQUEEN Time 2100 to 2200 Operator's Rep. JIM STEWART Title DF  
2nd \_\_\_\_\_ to \_\_\_\_\_

Casing record of well: 16" CEM 40'; 10 3/4" CEM 603'. TD 609' (DRILLING).

OPERATION: Testing (inspecting) the blowout prevention equipment and installation.  
DECISION: The blowout prevention equipment and installation are approved.

Proposed Well Opns: DRILL MPSP: \_\_\_\_\_ psi  
Hole size: 14 3/4" fr. 40' to 609', \_\_\_\_\_ " to \_\_\_\_\_ " & \_\_\_\_\_ " to \_\_\_\_\_ "

REQUIRED  
BOPE CLASS: III-B-3M

CASING RECORD (BOPE ANCHOR STRING ONLY)					Cement Details		Top of Cement	
Size	Weight(s)	Grade (s)	Shoe at	CP at			Casing	Annulus
<u>10 3/4"</u>	<u>40.5</u>	<u>J-55</u>	<u>603'</u>	<u>-</u>	<u>CEM W/ 375 SX "G" W/ STAB</u>	<u>IN SHOE @ 603 ON 3-10-83</u>	<u>588'</u>	<u>SURFACE</u>

BOP STACK							a	b	a/b	TEST DATA			
API Symb.	Ram Sz.	Mfr.	Model or Type	Size In.	Press. Rtg.	Date Last Overhaul	Gal. to Close	Rec. Time Min.	Calc. GPM Output	psi Drop to Close	Secs. to Close	Test Date	Test Press.
<u>A</u>	<u>12</u>	<u>SHAFCO</u>	<u>"GK"</u>	<u>12</u>	<u>3000</u>	<u>---</u>						<u>3-10</u>	<u>1000</u>
<u>RD</u>	<u>4 1/2</u>	<u>SHAFFER</u>	<u>B</u>	<u>12</u>	<u>3000</u>	<u>---</u>						<u>3-10</u>	<u>1000</u>
<u>RD</u>	<u>CSO</u>	<u>"</u>	<u>"</u>	<u>"</u>	<u>"</u>	<u>---</u>						<u>3-10</u>	<u>1000</u>

ACTUATING SYSTEM			
Accum. Unit(s)	Wkg. Press.	<u>3000 psi</u>	
Total Rated Pump Output	gpm		
Distance From Well Bore	ft.	<u>85</u>	
Mfr.	Accum. Cap.	Precharge	
<u>1</u>	<u>XOOMER</u>	<u>90 gal.</u>	<u>1000 psi</u>
<u>2</u>		gal.	psi
CONTROL STATIONS		Elec.	Hyd.
<input checked="" type="checkbox"/>	Manif. at accum. unit		<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	Remote at Drlr's stn.		
<u>Other (PNEUMATIC)</u>			
EMERG. BACKUP SYST.		Press.	Wkg. Fl.
<input checked="" type="checkbox"/>	N2 Cyl No: <u>2</u> Tpe: <u>J</u>	<u>1800</u>	<u>4.4 gal</u>
	Other:	<u>22350</u>	<u>8.2 gal</u>
		<u>3</u>	gal
		<u>4</u>	gal
		<u>5</u>	gal
		<u>6</u>	gal

AUXILIARY EQUIPMENT						
	No.	Sz. (in)	Rated Press.	Connections		
				Weld	Flan.	Thrd.
<input checked="" type="checkbox"/>	Fill-Up Line					
<input checked="" type="checkbox"/>	Kill Line	<u>2</u>	<u>3000</u>		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	Control Valve(s)	<u>2</u>	<u>"</u>		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	Check Valve(s)	<u>1</u>	<u>"</u>		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	Auxil. Pump Connec.		<u>"</u>			<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	Choke Line	<u>2</u>	<u>3000</u>		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	Control Valve(s)	<u>8</u>	<u>"</u>		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	Pressure Gauge					<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	Adjustable Choke(s)	<u>2</u>	<u>2</u>	<u>"</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	Bleed Line	<u>2</u>				<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	Upper Kelly Cock					<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	Lower Kelly Cock	<u>4 1/2</u>	<u>5000</u>			<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	Standpipe Valve					<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	Standpipe Pressure Ga.					<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	Pipe Safety Valve	<u>4 1/2</u>	<u>5000</u>			<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	Internal Preventer	<u>4 1/2</u>	<u>"</u>			<input checked="" type="checkbox"/>

HOLE FLUID MONITORING EQUIPMENT			
	Alarm		Class
	Aud.	Vis.	
<input checked="" type="checkbox"/>	Calibrated Mud Pit		<u>A</u>
<input checked="" type="checkbox"/>	Pit Level Indicator	<input checked="" type="checkbox"/>	<u>B</u>
<input checked="" type="checkbox"/>	Pump Stroke Counter	<input checked="" type="checkbox"/>	<u>B</u>
<input checked="" type="checkbox"/>	Pit Level Recorder	<input checked="" type="checkbox"/>	<u>C</u>
	Flow Sensor		
	Mud Totalizer		
	Calibrated Trip Tank		
	Other:		

REMARKS: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Hole Fluid Type	Weight	Storage-Pits
<u>CLAY BASE</u>	<u>9.5 #/g</u>	<u>400 BBL</u>

DEFICIENCIES—TO BE CORRECTED

NONE

DEFICIENCIES—CORRECTED

1. NITROGEN BOTTLE CONNECTION LEAKED
2. PUMP STROKE COUNTER NOT WORKING
3. ALL VALVE HANDLES ON THE CHOKE MANIFOLD MISSING

CONTRACTOR

CAL PACIFIC DRILLING COMPANY, INC.

FORMATION WATER SHUTOFF TEST

No. T \_\_\_\_\_

Operator XTRA ENERGY CORP

Well designation 23 Sec. \_\_\_\_\_, T. \_\_\_\_\_, R. \_\_\_\_\_, B.&M. \_\_\_\_\_

Field WILMINGTON, County CA. was tested for water shutoff on 3-20-83. (Name) S. MULQUEN, representative of the supervisor, was present from 1000 to \_\_\_\_\_. Also present were ROY NAPIER, DF

Casing record of well: 10 3/4 csm 603, 7" csm 5364, PERF WSD. TD 5489' (DRILLING)

The operations were performed for the purpose of \_\_\_\_\_

- The 7 " shutoff at 5364 ' 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 \_\_\_\_\_ ' at this time.

Hole size: 9 7/8 " fr. 603 ' to 5489 ' ; \_\_\_\_\_ " to \_\_\_\_\_ ' ; & \_\_\_\_\_ " to \_\_\_\_\_ '

K-55 Casing			Cemented		Top of Fill		Sqd. Away	Final Press	Test psi/min. Perfs.
Size	Wt.	Top Bottom	Date	MC-Depth	Volume	Annulus Casing			
7"	23#	0 5364'	3-19	BUMPER PLUG 1/2" FC. 5284	836cf	3141 5274	—	1500	—

Depth or interval tested 5352 - 5353  
The hole was open to \_\_\_\_\_ ' for test.

FORMATION TEST:

Packer(s) 5293 ' & \_\_\_\_\_ ' Tail 5311 ' Bean size 3/4 " Cushion \_\_\_\_\_  
IHP 2023 IFP 23.3 FFP 418 FHP 1976  
Blow 60 MIN M-FS HARD BLOW  
Open for test \_\_\_\_\_ Hr. \_\_\_\_\_ min. Fluid entry 1240' RISE MOD

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 \_\_\_\_\_ B/D & \_\_\_\_\_ psi on \_\_\_\_\_ 19\_\_,  
fluid confined below \_\_\_\_\_ ' (Packer depth \_\_\_\_\_ ')

THIS WELL WAS CHANGED FROM LOS ANGELES COUNTY  
TO THE WILMINGTON FIELD AS PER THE FIELD  
BOUNDARY CHANGE ON SEPTEMBER 10, 1982.

# REPORT ON PROPOSED OPERATIONS

00  
(field code)  
00  
(area code)  
00  
(new pool code)  
--  
(old pool code)

John D. Carmichael, Agent  
XTRA ENERGY CORPORATION  
717 Walton Street  
Signal Hill, CA 90806

Long Beach, California  
May 25, 1982

Your \_\_\_\_\_ proposal to Drill well 23,  
A.P.I. No. 037-22672, Section 19, T. 4S, R. 13W, S.B. B. & M.,  
Los Angeles County field, Onshore area, Ranger pool,  
Los Angeles County, dated 4-26-82, received 5-4-82 has been examined in conjunction with records  
filed in this office.

THE PROPOSAL IS APPROVED PROVIDED:

1. Blowout prevention equipment, equivalent to this division's Class III-B-3M requirements, or better, shall be installed and maintained in operating condition.
2. Drilling fluid of a quality and in sufficient quantity to control all subsurface conditions in order to prevent blowouts shall be used.
3. All oil, gas or fresh water sands behind the 7" casing shall be protected by either lifting cement or by multiple stage cementing.
4. This division shall be consulted and a supplementary notice may be required before making any changes in the proposed program.
5. The provisions of Sec. 3606 relating to derricks and subsurface spacing shall be followed.
6. THIS DIVISION SHALL BE NOTIFIED:
  - a. To witness a test of the installed blowout prevention equipment prior to drilling out cement in the shoe of the 10-3/4" casing.
  - b. To witness the effectiveness of the 7" shut-off above the Ranger zone.

NOTE: Approval of drill notice delayed pending receipt of extended lease boundaries.

RHS:da

cc: Update  
EDP

Blanket Bond

M. G. MEFFERD, State Oil and Gas Supervisor

By J. L. Hardoin  
J. L. HARDOIN, Deputy Supervisor

A copy of this report and the proposal must be posted at the well site prior to commencing operations.

Records for work done under this permit are due within 60 days after the work has been completed or the operations have been suspended.

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

C.E.Q.A. INFORMATION			
EXEMPT CLASS <input checked="" type="checkbox"/>	NEG. DEC. <input type="checkbox"/>	E.I.R. <input type="checkbox"/>	DOCUMENT NOT REQUIRED BY LOCAL JURISDICTION <input type="checkbox"/>
	S.C.H. NO. _____	S.C.H. NO. _____	
See Reverse Side			

FOR DIVISION USE ONLY					
MAP	MAP BOOK	CARDS	BOND	FORMS	
				114	121
126 ng	5-24-82 ng	5-24-82	Blanket	5-24-82	5-24-82

In compliance with Section 3203, Division 3, Public Resources Code, notice is hereby given that it is our intention to commence drilling well No. 23, API No. 037-29692 (Assigned by Division)

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

Legal description of mineral-right lease, consisting of 11.5 acres, is as follows: (Attach map or plat to scale)

Bounded on the West by Main Street, the North by 232nd Place, the East by Dolores Street and on the South by 234th Street, called the "Northern Parcel".

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

Location of well 105 feet East along section /property line and 131 feet North (Direction) (Cross out one)

at right angles to said line from the Southeast corner of section /property which is xxxx (Cross out one) the intersection of Main Street and the AT & SF right-of-way.

Is this a critical well according to the definition on the reverse side of this form? Yes  No

If well is to be directionally drilled, show proposed coordinates (from surface location) at total depth: 3462 feet North and 320 feet East (Direction) (Direction)

Elevation of ground above sea level 38 feet.

All depth measurements taken from top of Kelly Bushings that is 12 feet above ground. (Derrick Floor, Rotary Table, or Kelly Bushing)

**PROPOSED CASING PROGRAM**

SIZE OF CASING INCHES API	WEIGHT	GRADE AND TYPE	TOP	BOTTOM	CEMENTING DEPTHS	CALCULATED FILL BEHIND CASING (Linear Feet)
10-3/4"	40.5	K-55	0	600'	600'	600
7 "	23#	K-55	0	5320'	5320'	2720'
5 "	18#		5250	5440	Wire wrapped screen liner w/0.012" slots - gravel packed	

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

Intended zone(s) of completion Ranger, -3640', 1200 psi Estimated total depth 5445' (Name, depth, and expected pressure)

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

Name of Operator <u>XTRA ENERGY CORPORATION</u>	Type of Organization (Corporation, Partnership, Individual, etc.) <u>Corporation</u>
Address <u>717 Walton Street</u>	City <u>Signal Hill, CA</u>
Telephone Number <u>(213)424-8549</u>	Zip Code <u>90806</u>
Name of Person Filing Notice <u>John D. Carmichael</u>	Signature <u>John D. Carmichael</u>
	Date <u>4-28-82</u>

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.

Information for compliance with the California Environmental Quality Act of 1970 (C.E.Q.A.).

If an environmental document has been prepared by the lead agency, please submit a copy of the document with this notice *or* supply the following information:

Lead Agency: CITY OF CARSON

Lead Agency Contact Person: Joel Miller

Address: P. O. Box 6234

CARSON, CA 90749

Phone: (213) 830-7600

**FOR DIVISION USE ONLY**

District review of environmental document (if applicable)? Yes  No

Remarks: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**CRITICAL WELL**

As defined in the California Administrative Code, Title 14, Section 1720(a), "Critical well" means a well within:

- (1) 300 feet of the following:
  - (A) Any building intended for human occupancy that is not necessary to the operation of the well; or
  - (B) Any airport runway.
- (2) 100 feet of the following:
  - (A) Any dedicated public street, highway, or nearest rail of an operating railway that is in general use;
  - (B) Any navigable body of water or watercourse perennially covered by water;
  - (C) Any public recreational facility such as a golf course, amusement park, picnic ground, campground, or any other area of periodic high-density population; or
  - (D) Any officially recognized wildlife preserve.

Exceptions or additions to this definition may be established by the supervisor upon his own judgment or upon written request of an operator. This written request shall contain justification for such an exception.

RECEIVED  
MAY 4 12 07 PM '82  
DIV. OF OIL AND GAS  
SEARCH, CA.

XTRA ENERGY CORPORATION

PROGRAM FOR DRILLING

WELL No. 23

Reference Point: KB which is 12' above G. E.  
Surface Location: Lambert Coordinates N-4,041,448 E-4,204,680  
Bottom Hole Location: Lambert Coordinates N-4,044,910 E-4,205,000  
Elevation: 38' GE + 12' KB = 50'

Proposed Casing Program:

10-3/4" 40.5 # to be cemented at 600'  
7 " 23 # to be cemented at 5320'  
5 " 18 # to be hung at 5440', top @ 5250'.

Perfs: 5075' to 5160' Wire wrapped pipeless Johnson Screen liner with 0.012" slots.

Proposed Hole Size:

0' to 600' 14-3/4" hole  
600' to 5320' 9-7/8" hole  
5320' to 5445' 6-1/4" hole to be underreamed to 12".

Proposed Total Depth: 5445'

Directional Program

Deflect hole at 400' and increase inclination at 5°/100' in a N 5° E direction to 55° at 1500' (T.V.D. - 1339'). Maintain 55° inclination to a depth of 4041'. Drop angle @ 1-1/2°/100' to total depth of 5445'. Target is a 100' diameter circle with its center 3462' North and 320' East of the surface site. A total displacement of 3480'.

Mud Program

1. For drilling from surface to 600', use a safe fresh water clay base mud.
2. For drilling from 600' to 5250', use a fresh water clay base mud with the following properties.
  - a. Weight 72 #/CF
  - b. Fluid loss 5cc
  - c. P.V. 8 - 14 CPS
  - d. YP 4 - 6#/100 sq. ft.
  - e. Funnel vis 38 - 42"
  - f. Solids 10%



3. For underreaming 6-1/4" hole to 12", use a polymer mud with the following properties.
  - a. Weight 72#/CF
  - b. P.V. 12 - 18 CPS
  - c. YP 4 - 6#/100 sq. ft.
  - d. Funnel vis 34 - 38"
  - e. Solids Minimum
  - f. KCl (KCl) 4%

BOP Requirements

1. Bag type - Hydraulic 10" - 3000. 3000 psi WOG.
2. Ram type - double, hydraulic, 10" - 3000, 3000 psi WOG.
3. Accumulator - 80 gallon with dual controls.

Program

1. Install 16" conductor pipe to  $\pm$  40'.
2. Move in and rig up rotary equipment.
3. Drill 14-3/4" hole to 600'.
4. Run 10-3/4", 40.5#, K-55 casing to 600'. Casing to be fitted with B & W stab-in shoe and centralizers on 1st, 2nd and 3rd joints. Cement 10-3/4" casing with 300 sacks of API class "G" cement mixed 1:1 with peralites and 4% Gel followed by enough neat "G" cement to get cement returns. All cement to be mixed with 2% CaCl<sub>2</sub>.
5. Install wellhead and BOP. Representative of D.O.G. to witness pressure test of B.O.P.
6. Run 9-7/8" bit and clean out to 600'. Drill 9-7/8" hole to 5320'. Reduce hole size to 6-1/4" and drill to 5445'.
7. Run Induction electric log from total depth to the shoe of the 10-3/4" casing. Use 20 ohm scale. Two field prints are required including one with 5" scale.
8. Run 7", 23#, K-55 casing to 5320'. Casing to be fitted with B & W Basket Shoe and B & W fill up collar 2 joints above shoe. Centralizers to be installed on 1st, 2nd, 4th and 6th joints above shoe. Cement 7" casing as follows: 300 linear feet (80 CF) of "mud sweep" or equivalent followed by 360 sacks of class G cement mixed 1:1:4 (cement:perlite:gel) followed by 85 sacks "G" neat cement. All cement to be mixed with 2% CaCl<sub>2</sub>. Cement to reach 2000' TVD. Land casing.

RECEIVED  
MAY 4 12 03 PM '82  
DIV. OF OIL AND GAS  
LONG BEACH, CA.

NO. 33 (1-2)

to be mixed with 300 sacks of cement to reach 3000. The 10-3/4 cement  
(cement:bellite:80) followed by 92 sacks of cement. The cement  
followed by 300 sacks of cement. The cement mixed with  
water as follows: 300 sacks (80 lb) of "dry pack" or equivalent  
to be distributed on top, and the balance spread over the cement. The  
water was 1.5 gal per sack. The total water was 450 gal. The cement  
was 300 sacks of 92 lb. The cement to be mixed with 1.5 gal

with 2.5 gal water.  
The 10-3/4 cement was mixed with 1.5 gal water. The cement  
was 10-3/4 cement. The cement to be mixed with 1.5 gal water.

Reduce water to 2-1/4 gal and add 10-3/4 cement.  
The 10-3/4 cement was mixed with 2-1/4 gal water. The cement  
was 10-3/4 cement. The cement to be mixed with 2-1/4 gal water.

Reduce water to 1.5 gal and add 10-3/4 cement.  
The 10-3/4 cement was mixed with 1.5 gal water. The cement  
was 10-3/4 cement. The cement to be mixed with 1.5 gal water.

Reduce water to 1.0 gal and add 10-3/4 cement.  
The 10-3/4 cement was mixed with 1.0 gal water. The cement  
was 10-3/4 cement. The cement to be mixed with 1.0 gal water.

Reduce water to 0.5 gal and add 10-3/4 cement.  
The 10-3/4 cement was mixed with 0.5 gal water. The cement  
was 10-3/4 cement. The cement to be mixed with 0.5 gal water.

Reduce water to 0.25 gal and add 10-3/4 cement.  
The 10-3/4 cement was mixed with 0.25 gal water. The cement  
was 10-3/4 cement. The cement to be mixed with 0.25 gal water.

Reduce water to 0.1 gal and add 10-3/4 cement.  
The 10-3/4 cement was mixed with 0.1 gal water. The cement  
was 10-3/4 cement. The cement to be mixed with 0.1 gal water.

RESULTS

- 3. 10-3/4 cement - 300 sacks - 3000 lbs - 3000 lbs
- 2. 10-3/4 cement - 300 sacks - 3000 lbs - 3000 lbs
- 1. 10-3/4 cement - 300 sacks - 3000 lbs - 3000 lbs

REFERENCES

- 1. KCI (KCI)
- 2. 20112
- 3. 20112
- 4. 20112
- 5. 20112
- 6. 20112
- 7. 20112
- 8. 20112
- 9. 20112
- 10. 20112

10-3/4 cement - 300 sacks - 3000 lbs - 3000 lbs

Page 100

4

Page three

9. After 24 hours, clean out cement to 5310' (+ 10' above shoe). Run combination jet perforator and casing tester. Shoot 4 holes as directed and test water shut off. Results of WSO test to be witnessed by representative of California Division of Oil and Gas.
10. Run 6-1/4" bit, drill out shoe at 5320' and clean out to 5445'.
11. Change over to Polymer completion fluid.
12. Underream 6-1/4" hole to 12" from the 7" casing shoe to total depth. Run Caliper log.
13. Make up and run 5" wire wrapped screen liner as directed.
14. Gravel pack 5" x 12" annulus with + 85 CF of 20 - 40 mesh gravel.
15. Displace Polymer mud in hole with salt water and close in.
16. Move out rotary equipment.

No.23 (I-5)  
JDC:sc  
4-23-82



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

Long Beach, California May 7, 19 82

John D. Carmichael, Agent  
XTRA ENERGY CORPORATION  
717 Walton Street  
Signal Hill,

I have received your notice dated <sup>/s</sup> April 28, 19 82, of your intention

to drill \_\_\_\_\_, 23 and 26  
(Well name and number)

Sec. 19, T. 4S, R. 13W, S.B. B. & M.

The bottom hole locations plot beyond your oil and gas lease. Please provide an updated plot-map of your extended lease boundary as soon as possible. Your notices of intention to drill above wells are being withheld, pending receipt of extended lease map.

RHS:cp

M. G. MEFFERD  
State Oil and Gas Supervisor

By *Robert H. Samuelson*  
For John L. Hardoin, Deputy Supervisor