

7/3/2015 - DJ

DIVISION OF OIL, GAS, AND GEOTHERMAL RESOURCES

**CHECK LIST – RECORDS RECEIVED AND WELL STATUS**

Company:	<b>E &amp; B National Resources Co.</b>	Well: <b>WNF 1- 8</b>
API#:	<b>037-22620</b>	Sec. <b>19, T. 4S, R.13W. S. B. B. &amp; M.</b>
County:	<b>Los Angeles</b>	Field: <b>Wilmington</b>

RECORDS RECEIVED	DATE	STATUS	
Well Summary (Form OG100)	5/6/2015	Active	<input checked="" type="checkbox"/> Drilling <input type="checkbox"/>
History (Form OG103)	4/26/2016	Abandoned	<input type="checkbox"/> Idle <input type="checkbox"/>
Core Record (Form OG101)		Reabandoned	<input type="checkbox"/> Other <input type="checkbox"/>
Directional Survey			
Sidewall Samples			
Date final records received.			
Electric Logs:			
Other:			
		WELL TYPE	
		Oil	<input type="checkbox"/> Waterflood <input checked="" type="checkbox"/>
		Gas	<input type="checkbox"/> Water Disposal <input type="checkbox"/>
		Water Source	<input type="checkbox"/> Cyclic Steam <input type="checkbox"/>
		Observation	<input type="checkbox"/> Steam Flood <input type="checkbox"/>
		Exploratory	<input type="checkbox"/> Fire Flood <input type="checkbox"/>
		Dry Hole	<input type="checkbox"/> Other <input type="checkbox"/>
		EFFECTIVE DATE: 4-1-2015	
		REMARKS: Reworked FB 1 - Ranger	

ENGINEERS CHECK LIST		CLERICAL CHECK LIST	
<input checked="" type="checkbox"/>	Summary, History & Core Record (Dupl.)	<input type="checkbox"/>	Location change
<input type="checkbox"/>	Electric Log	<input type="checkbox"/>	Elevation change
<input checked="" type="checkbox"/>	Operator's Name	<input type="checkbox"/>	Form OGD121
<input checked="" type="checkbox"/>	Signature	<input type="checkbox"/>	Form OGD150b (Release of Bond)
<input checked="" type="checkbox"/>	Well Designation	<input type="checkbox"/>	Duplicate logs to archives
<input checked="" type="checkbox"/>	Location	<input type="checkbox"/>	Notice of Records Due
<input checked="" type="checkbox"/>	Elevation	<input type="checkbox"/>	EDP 5-3-10 VM
<input checked="" type="checkbox"/>	Notices	<input type="checkbox"/>	District Date Base 5-3-10 VM
<input checked="" type="checkbox"/>	"T" Reports	<input type="checkbox"/>	Final Letter (OG159)
<input checked="" type="checkbox"/>	Casing Record	<input type="checkbox"/>	Update Center
<input type="checkbox"/>	Plugs		
<input type="checkbox"/>	Directional Survey		
<input checked="" type="checkbox"/>	Production/Injection (FAP Codes: 849-03-00 )		
<input type="checkbox"/>	E Well on Prod., enter EDP		
<input type="checkbox"/>	Surface Inspection Required		<b>FIELD CHECK LIST</b>
<input type="checkbox"/>	Surface inspection Waived (Island)		Date Surface Inspection Completed:
<input type="checkbox"/>	Well site restoration deferred (common cellar)		Other:
<input type="checkbox"/>	Final Letter Required AB: <input type="checkbox"/> REAB: <input type="checkbox"/>		
<input type="checkbox"/>	Other:		

RECORDS NOT APPROVED	RECORDS APPROVED
(Reason:)	(Signature) <i>Haliz Ateeg.</i>
	RELEASE BOND
	Date Eligible
	(Use date last needed records received.)
	MAP AND MAP BOOK

MAY - 6 2015

# WELL SUMMARY REPORT

API No. 04-037-22620

Operator <b>E&amp;B Natural Resources Management Corporation</b>		Well <b>WNF-I 8</b>				
Field (and Area, if applicable) <b>Wilmington</b>		County <b>Los Angeles</b>	Sec. <b>19</b>	T. <b>4S</b>	R. <b>13W</b>	B.&M. <b>SB</b>
Location of well (Give surface location from property or section corner, street center line) <b>72' Northerly along property line &amp; 106' East along NE corner of Main St &amp; AT&amp;SF RR right of way</b>					Elevation of ground above sea level: <b>38'</b>	
Lat./Long. in decimal degrees, to six decimal places, NAD 83 format: Lat: <b>33.804861</b> Long: <b>-118.275044</b>						

Was the well directionally drilled?  Yes  No If yes, show coordinates (from surface location) and true vertical depth at total depth.  
TVD: 3719', N: 1603, 1293 E

Commenced drilling (date) <b>4.3.1982</b>	(1st hole) <b>4422'</b>	Total depth (2nd)	(3rd)	Depth measurements taken from top of: <input type="checkbox"/> Derrick Floor <input type="checkbox"/> Rotary Table <input checked="" type="checkbox"/> Kelly Bushing	
Completed drilling (date) <b>4.18.1982</b>				Which is <b>12'</b> feet above ground.	
Commenced production/injection (date) <b>5.12.1982</b>	Present effective depth ' <b>4340'</b>		GEOLOGICAL MARKERS		DEPTH
Production mode: <input type="checkbox"/> Flowing  <input type="checkbox"/> Pumping <input type="checkbox"/> Gas lift	Junk? Describe:		Tar Ranger F		3788 4214
Name of production/injection zone(s) <b>Ranger Sands</b>				Formation and age at total depth <b>Pliocene</b>	Base of fresh water <b>2107</b>

	Clean Oil (bbl per day)	API Gravity (clean oil)	Percent Water (including emulsion)	Gas (Mcf per day)	Tubing Pressure	Casing Pressure
Initial Production	NA	NA	NA	NA	NA	NA
Production After 30 days	NA	NA	NA	NA	NA	NA

### CASING AND CEMENTING RECORD (Present Hole)

Size of Casing (Inches API)	Top of Casing	Depth of Shoe	Weight of Casing	Grade and Type of Casing	New (N) or Used (U)	Size of Hole Drilled	Number of Sacks or Cubic Feet of Cement	Depth of Cementing (if through perforations)	Top(s) of Cement in Annulus
10-3/4"	surf	592	40.5	J55	N	14-3/4	425sx		surf
7"	surf	4218	23	K55	N	9-7/8	377		1090
5"	4144	4345	18	N80	N	6			
5"	2498	4144	18	J55	N		178 cuft	4144	2498

PERFORATED CASING (Size, top, bottom, perforated intervals, size and spacing of perforations, and method.)  
**5", 4232-4340: 0.012" wirewrap screen**

Logs/surveys run?  Yes  No If yes, list type(s) and depth(s).

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 of person filing report <b>Danielle Uhl</b>	Telephone Number <b>661.679.1700</b>	Signature	Date
Address <b>1600 Norris Rd</b>	City/State <b>Bakersfield, CA</b>	Zip Code <b>93308</b>	
Individual to contact for technical questions: <b>Danielle Uhl</b>	Telephone Number <b>424.281.8894</b>	E-Mail Address: <b>duhl@ebresources.com</b>	

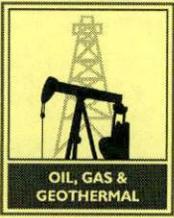
RESOURCES AGENCY OF CALIFORNIA  
DEPARTMENT OF CONSERVATION  
DIVISION OF OIL, GAS, AND GEOTHERMAL RESOURCES  
**HISTORY OF OIL OR GAS WELL**

Operator	E&B Natural Resources Management Corporation	Field	Wilmington	County	Los Angeles
Well	WNF-I 8	Sec.	19	T.	4S
A.P.I. No.	04-037-22620	Name	Danielle Uhl	Title	Engineer
Date		(Person submitting report)		(President, Secretary, or Agent)	
Signature _____					
Address	1600 Norris Road; Bakersfield CA 93308	Telephone Number	661.679.1700		

History must be complete in all detail. Use this form to report all operations during drilling and testing of the well or during re-drilling 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	
3.18.2015	MIRU
3.19.2015	Install and function test Class II BOPE. Lay down 128 joints of 2-7/8" Injection string tubing. Assist Guzman Crane racking 2-7/8" work string. Spot mud pump and washout bins. Pick up 10 joints of 2-3/8" Hydrill tubing with 3-3/8" Mule shoe on bottom. Pick up 128 Joints of 2-7/8" work string. Tag at 4281'. Dumped 12 cuft of sand down tubing. Pull tubing above liner top.
3.20.2015	Work sand to 4160'. Reverse tubing clean. Retag sand at 4160'. POOH with tubing. Make up 5" 18# flush max liner, 39 joints 1620'. RIH with tubing. Tag 5" liner top at 4141'. Sub up tubing. New 5" liner top will be at 2498'.
3.21.2015	Pumped 88 sacks of cement. Dropped dart. Displace with water. Picked up plug. Bumped plug. Checked floats. Held good. Release from liner. New liner top at 2498'. ETOC at 2386'. Pull out of hole with tubing.
3.23.2015	Make up and run in the hole with 6-1/8" bit. Tag cement at 2286'. Rig up 2.5 power swivel. Establish reverse circulation. Drill out cement stringers to 2447'. Continue to drill out solid cement to 5" liner top at 2498'. Circulate to clean returns. Pull out 6-1/8" bit. Make up 4-1/8" bit. Pick up six 3-1/8" drill collars. Pick up 2-3/8" tubing to cover 5" liner. Run in hole with BHA to 2498'. Rig up 2.5 power swivel. Continue to drill out cement stringers inside 5" liner to 2640'. Circulate to clean returns. Pulled tubing to liner top.
3.24.2015	Run in hole with tubing. Tag at 2640'. Was able to work tubing through stringers. Bit fell through at 2694'. Continue to run in hole, tag at 3982'. Rig up swivel and drill out to 4080'. Pressure test back side, good test. Continue to drill out past floats and bull nose to 4152'. Pressure test back sid. Bled off to 600 psi in 8 min. Retest. Bled down to 950 in 13 min. Pull tubing to top of 5" liner.
3.25.2015	Run in hole with tubing. Rig up 2.5 swivel. Establish reverse circulation. Continue to clean out sand from 4160' to 4230'. Stopped rotating bit at 4230' due to 5" pipeless stainless steel wirewrap liner. Continue to clean out to 4324'. Unable to pass 4324'. Decision was made to run a 2-3/8" mule shoe. Circulate to clean returns. POOH with tubing. Lay down 3-1/8" drill collars and 4-1/8" bit. Make up and run in hole with 2-3/8" mule shoe to 4324'. Pick up production swivel. Establish reverse circulation. Clean out to 4345'. Circulate to clean returns. Got back a large amount of iron sulfide in the returns. POOH with tubing. Found the mule shoe was bent and had scrape marks on one side. Possibly went through a restriction at 4324'.
3.26.2015	RIH with 5" Scraper to 4200'. Scraper passed with no restrictions. POOH laying down work string. Pick up 5" Weatherford arrowset packer. Pick up 135 joints of 2-3/8" 4.7# N-80 8rd tubing. Strip off BOPE. Set packer with center of element at 4135'. Make up and land tubing on 6-900 Flange 4k compression. Test back side, held good for 15 min.
3.27.2015	Pressure test annulus for Division of Oil & Gas Representative Eric Weigand. RDMO

HAM



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 115-0433

### 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  
June 05, 2015

Your operations at well "Wnf-1" 8, A.P.I. No. 037-22620, Sec. 19, T. 04S, R. 13W, SB B.&M., Wilmington field, in Los Angeles County, were witnessed on 3/23/2015, by Callie Cullum, a representative of the supervisor.

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

DECISION: **APPROVED**

DEFICIENCIES NOTED AND CORRECTED: None

EXPIRED \_\_\_\_\_  
CANCELLED \_\_\_\_\_  
MAILED \_\_\_\_\_  
EMAILED 6/10/15

HAM/kj

Steven Bohlen  
State Oil and Gas Supervisor

By Michael N. Okafor  
For: Daniel J. Dudak, District Deputy

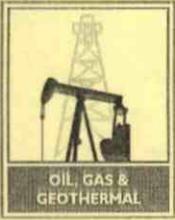


231-21

**CONTRACTOR:**

**UNCORRECTABLE DEFICIENCIES:**

**DEFICIENCIES NOTED AND CORRECTED:**



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 115-1225

### 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 18, 2015

Your operations at well "**Wnf-1**" 8, A.P.I. No. **037-22620**, Sec. **19**, T. **04S**, R. **13W**, **SB B.&M.**, **Wilmington** field, in **Los Angeles** County, were witnessed on **3/27/2015**, by **Eric Weigand**, a representative of the supervisor.

The operations were performed for the purpose of **pressure testing the 7" X 5" casing**.

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

Report on Operations  
Standard Annular Pressure Test

OPERATOR

E B Natural Resources Management Corporation

Your operations at well "Wnf-l" 8 API No. 037-22620  
Sec 19 , T 04S , R 13W , SB , B. & M. Wilmington Field, Los Angeles County,  
were witnessed on 3/27/2015 Eric Weigand , representative of  
the supervisor, was present from 1050 1115 .

There was also present Dave Hopkins (Harbor Resources)

Casing record of present hole:

A Standard Annular Pressure Test was performed on the 7" x 5" casing. The tubing/casing annulus was  
pressure tested with 1800 psig for 15 minutes. There was 0 pressure drop.

Packer Depth: 4141'

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

DECISION:

The pressure test is  Approved  Not Approved

NOTE: No chart available.

CONTRACTOR:

HARBOR RESOURCES

UNCORRECTABLE DEFECIENCES:

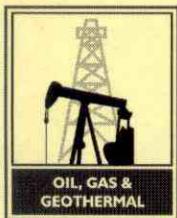
NONE

DEFECIENCES NOTED AND TO BE CORRECTED:

NONE

DEFECIENCES NOTED AND CORRECTED:

NONE



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 115-1071

## 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 18, 2015

Your operations at well "**Wnf-I**" 8, A.P.I. No. **037-22620**, Sec. **19**, T. **04S**, R. **13W**, **SB B.&M.**, **Wilmington** field, in **Los Angeles** County, were witnessed on **7/21/2015**, 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 hufj Ateeg  
For \_\_\_\_\_  
Daniel J. Dudak, District Deputy

ok

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

No. T 115-1071

## MECHANICAL INTEGRITY TEST (MIT)

Operator: E & B Natural Resources Management Corp.				Well: "Wnf-I" 8	
Sec. 19	T. 04S	R. 13W	B.&M. SB	API No.: 037-22620	Field: Wilmington
County: Los Angeles				Witnessed/Reviewed on: 7-21-2015	
Max Chavez, representative of the supervisor, was present from 1300 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.					
<input checked="" type="checkbox"/> The MIT is approved since it indicates that all of the injection fluid is confined to the formations below <u>4232</u> feet at this time.					
<input type="checkbox"/> The MIT is not approved due to the following reasons: (specify)					
<p><b>CONTRACTOR:</b> <i>Wella Co</i></p> <p><b>UNCORRECTABLE DEFICIENCIES:</b></p> <p><b>DEFICIENCIES NOTED AND CORRECTED:</b></p>					

Well: "Wnf-I" 8	Date: 7-21-2015	Time: 1300-1600
Observed rate: 158 B/D	Meter rate: 250 B/D	Fluid level: 0 feet
Injection pressure: 1100 psi	MASP: 1641 psi	Pick-up depth: 4295 feet
Initial annulus pressure: 0 psi	Pressure after bleed-off: 0 psi	

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

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

**TRACER CASING AND TUBING RATE CHECKS**

Interval	Time (sec.)	Rate (B/D)	Background log: 4000'	to 4295'
4200'-4208'	35	311 (Top Perf)		
4100'-4108'	8	158 (Top Pkr)		
COMMENTS:				

**TOP PERFORATION CHECK**

Top perforation depth: 4232'	Wait at: 4208'	for 300 seconds	Beads: (Y/N) No
Casing shoe at: 4345'	WSO holes at:	Arrival time: <i>Calculated</i>	<i>Actual</i>

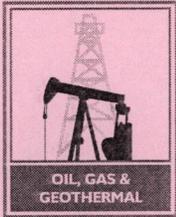
LOG FROM	TO	SLUG @	LOG FROM	TO	SLUG @	COMMENTS:
4208'	4295'	4230'	4295'	4175'	4272'	Slug migrating south. Top Perf is good.
4295'	4175'	4236'				
4175'	4295'	4248'				
4295'	4175'	4254'				
4175'	4295'	4265'				

**PACKER CHECK**

Packer at: 4140'	Wait at: 4108'	for 180 seconds	Beads: (Y/N) No
Tubing tail at: 4140'	Tubing size: 2-3/8" (Rice)	2nd Packer at:	Mandrel:

LOG FROM	TO	SLUG @	LOG FROM	TO	SLUG @	COMMENTS:
4108'	4200'	4129'				Slug migrating south. Top Pkr is good.
4200'	4075'	4153'				
4075'	4250'	4180'				
4250'	4075'	4187'				

COMMENTS:



NATURAL RESOURCES AGENCY OF CALIFORNIA  
 DEPARTMENT OF CONSERVATION  
 DIVISION OF OIL, GAS & GEOTHERMAL RESOURCES  
 5816 Corporate Ave., Suite 200 Cypress, CA 90630 - 4731

No. P 115-0011

Old	New
849	849
FIELD CODE	
03	03
AREA CODE	
20	20
POOL CODE	

**PERMIT TO CONDUCT WELL OPERATIONS**

Waterflood  
 CRITICAL WELL  
 RANGER ZONE, FAULT BLOCK I

Cypress, California  
 January 14, 2015

**EXPIRED** 3/20/2016  
**CANCELLED** \_\_\_\_\_  
**MAILED** \_\_\_\_\_  
**EMAILED** 1/20/2015 44

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

Your proposal to **Rework (install 5" liner)** well "**Wnf-I" 8**, A.P.I. No. **037-22620**, Section **19**, T. **04S**, R. **13W**, **SB B** & M. (Lat: **33.804861** Long: **-118.275044** Datum: **83**), **Wilmington** field, **Fault Block I** area, **Ranger** pool, **Los Angeles** County, dated **1/9/2015**, received **1/9/2015** has been examined in conjunction with records filed in this office.

**THE PROPOSAL IS APPROVED PROVIDED:**

- Blowout prevention equipment, as defined by this Division's publication No. M07, shall be installed and maintained in operating condition and meet the following minimum requirements:
  - Class **II2M**, with hydraulic controls, on the **7"** casing.
  - A **2M lubricator** for **wireline** operations.
- Blowout prevention practice drills are conducted at least weekly and recorded on the tour sheet. A practice drill may be required at the time of the test/inspection.
- Hole fluid of a quality and in sufficient quantity to control all subsurface conditions in order to prevent blowouts shall be used.
- Prior to commencing injection, and every **5** years thereafter, a Standard Annular Pressure Test (**SAPT**) is conducted to demonstrate the mechanical integrity of the **5"** liner and **7"** casing. The minimum test pressure shall be the Maximum Allowable Surface Pressure (**MASP**).
- No program changes are made without prior Division approval.
- THIS DIVISION SHALL BE NOTIFIED TO:**
  - Inspect the installed blowout prevention equipment prior to commencing **downhole** operations.
  - Witness a **SAPT** of the **5"** liner and **7"** casing prior to commencing injection, and every **5** years thereafter.

**NOTE:**

- No operation shall be undertaken or continued that will contaminate or otherwise damage the environment.
- Upon completion of the proposed work a History of Oil or Gas Well (OG103) shall be submitted to this office including a copy of the SAPT chart.
- Any well stimulation conducted after January 1, 2014 will be subject to Senate Bill 4, (Chapter 313, 2013 Statute) requirements.**

Blanket Bond  
 UIC Project No. 84903008  
 cc: EDP

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

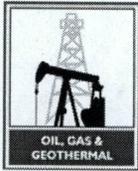
Engineer Jack Collender  
 Office (714) 816-6847

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

JCL/jcl

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. Issuance of this permit does not affect the Operator's responsibility to comply with other applicable state, federal, and local laws, regulations, and ordinances.

55



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

# 115-0011

FOR DIVISION USE ONLY			
Bond	Forms		
	OGD114	OGD121	
BB	1/10	1/9	GH

S / MV

## NOTICE OF INTENTION TO REWORK / REDRILL WELL

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

In compliance with Section 3203, Division 3, Public Resources Code, notice is hereby given that it is our intention to rework  / redrill  well WNF-I 8, API No. 04-037-22620,  
 (Check one)

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

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

10-3/4", 40.5#, J55 @ surf-592, 425 sx class G cmt, TOC @ surf  
 7", 23#, K55 @ surf - 4218, 377 sx class G cmt, TOC @ 1730  
 5", 18#, N80 @ 4144' - 4345, gravel packed, 72 sx 20/40 sand

Proposed: 5", 18#, N80 @ 2500' - 4144', 140 cuft cmt

The total depth is: 4410 feet. The effective depth is: 4345 feet.

Present completion zone(s): Ranger (Name) Anticipated completion zone(s): Ranger (Name)

Present zone pressure: 1500 psi. Anticipated/existing new zone pressure: 1500 psi.

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

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

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

See attached program

If well is to be redrilled or deepened, show proposed coordinates (from surface location) and true vertical depth at total depth: \_\_\_\_\_ feet and \_\_\_\_\_ feet Estimated true vertical depth: \_\_\_\_\_  
 (Direction) (Direction)

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

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

Name of Operator E&B Natural Resources			
Address 1600 Norris Road		City/State Bakersfield, CA	Zip Code 93308
Name of Person Filing Notice Danielle Uhl	Telephone Number: 424.281.8894	Signature	Date 1/9/2015
Individual to contact for technical questions: Danielle Uhl	Telephone Number: 424.281.8894	E-Mail Address: duhl@ebresources.com	

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

Received-  
 JAN 09 2015  
1/9/2015 GH

SY MV

## INFORMATION FOR COMPLIANCE WITH THE CALIFORNIA ENVIRONMENTAL QUALITY ACT OF 1970 (CEQA)

If an environmental document has been prepared by the lead agency, submit a copy of the **Notice of Determination** or **Notice of Exemption** with this notice. Please note that a CEQA determination by a local jurisdiction, if required, must be complete, or the Division may not issue a permit.

### CRITICAL WELL DEFINITION

As defined in the California Code of Regulations, 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 the 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.

### WELL OPERATIONS REQUIRING BONDING

1. Drilling, re-drilling, or deepening any well.
2. Milling out or removing a casing or liner.
3. Running and cementing casing or tubing.
4. Running and cementing liners and inner liners.
5. Perforating casing in a previously unperforated interval for production, injection, testing, observation, or cementing purposes.
6. Drilling out any type of permanent plug.
7. Reentering an abandoned well having no bond.

This form may be printed from the DOGGR website at [www.conservation.ca.gov/dog/](http://www.conservation.ca.gov/dog/)

## E&B Natural Resources

### Wilmington Field, WNF-I 8, API: 04-037-22620

#### Contacts:

Tony Quintanilla: Lease Foreman, 424.558.6198  
Danielle Uhl: Production Engineer, 424.281.8894  
Dan Fouts: Senior Production Engineer, 424.202.1736

#### Wellbore record:

Refer to attached WBD  
7", 23#, K55 @ 4218'  
5", 18#, N80 @ 4144' - 4345'  
Proposed: 5" @ 2500' - 4144'  
PBSD @ 4345', TD @ 4410'

#### Purpose:

Repair damaged casing by installing and cementing new liner on top of existing liner

#### Geologic Markers:

BFW: 2180'  
Top of Tar: 3788'  
Top of Ranger F: 4214'  
Top of Ranger M: 4280'

#### Notes:

Record all reasons for down time  
Anticipated reservoir pressure: 1700 psi  
MASP 1641 psi  
Use lease water for kill fluid  
Tripped 7" scraper to TOL on 4/29/2014  
Liner shoe and top from Weatherford  
1640' minimum of 5", 18#, N80 FlushMax liner with two sets of 4 per centralizing lugs to come from JD Rush / Tryad  
5" Arrowset injection packer and jewelry from Weatherford  
Test tubing / casing annulus to MASP after packer is set  
Contact DOGGR to witness pressure test after packer is set

#### Procedure:

1. MIRU workover rig and triplex pump. Install and test class II BOPE
2. POOH laying down 2-7/8" TK70XT coated tubing; place thread protectors on
3. Pick up 2-7/8", 6.5#, N80 work string
4. RIH with tubing tail at 4100', dump sand from PBSD to 4130'
5. Tag to verify sand depth at 4130'
6. PU 5" flushmax liner with shoe and top; RIH setting on top of existing liner at 4144'

52

7. MIRU cementers and cement liner in place with approximately 140 cuft with 25% excess (total on location 175 cuft)
8. RIH with workstring and bit
  - a. Cleanout cement in 7" casing to TOL at 2500 +/-
  - b. Cleanout cement in 5" liner to 4120', 15' above shoe
9. With bit and BHA in hole, pressure test liner to MASP, 1700 psi, for 15 minutes
10. Drill out remaining cement to 4130 +/- and clean out sand to PBTD
11. Discuss with engineering decision to run CBL across liner and liner top
12. MIRU McGraw with cupwash tool spacing at 20'
13. MIRU MTS; cupwash slots from 4232' - 4339' with 20 gpf 15%, 6% HCL/3% HF and NH4Cl water.
14. Displace tubing with lease injection water
15. Lay down work string
16. RIH injection string as follows (top to bottom)
  - a. ~135 jts 2-3/8" TK70XT tbg
  - b. Weatherford T2 o/o tool
  - c. 5" x 2-3/8" arrowset packer @ 4050 +/-
  - d. 1 coated pup jt tbg
  - e. XN nipple
  - f. Wireline reentry guide
17. Notify DOGGR to witness pressure test
18. Pressure test backside to 1700 psi for 15'
19. Treat backside with packer fluid
20. Nipple down BOP, install injection tree, RDMO
21. Place well on injection at 200 bwpd



Operator: E&B Natural Resources  
 Legal name: Wm 18  
 ST/RD No: 0  
 Field: Wilmington  
 API No.: 04-037-22620  
 Spud Date: 4/3/1982  
 Current Status: COMPLETE  
 Status Date: 1/9/2015

Section: 19  
 Township: 4  
 Township: s  
 Range: 13  
 Range: w  
 Longitude: -118.275  
 Latitude: 33.805  
 State/Province: CALIFORNIA  
 County: Los Angeles

Datum: KB  
 Datum Height: 12.0ft  
 KOP: 0ft  
 PBTD: 4,315ft  
 TVD BH: 3,685ft  
 TD: 4,410ft

HOLE INFO		CASING DETAILS		CEMENT DETAILS		EQUIPMENT		PERFS / SLOTS		GEO INFO	
-----------	--	----------------	--	----------------	--	-----------	--	---------------	--	----------	--

Size	Top-Btm (ft)	Size	Weight, Grade	Top-Btm (ft)	Type	Class	Vol (bb)	Yield (ft <sup>3</sup> /sk)	Top-Btm (ft)	Schematic	Top-Btm	Desc	Top-Btm (ft)	Status, Date	Marker Top (ft)
14.750	12-595				PRIM CMT	CLASS G	133.0		12-595	Ground Level					
9.875	595-4247	10.750	40.5ppf, J55	12-592											
					PRIM CMT	CLASS G	118.8		1,730-4,218						
															BFW2,107
															Tar3,788
12.000	4,218-4,345	7.000	23.0ppf, K55	12-4,218											
6.250	4,345-4,422	5.000	18.0ppf, N-80	4,144-4,345											
															RangerEV 4,100
															RangerF 4, 214
															RangerM 4, 280
															RangerH 4, 344

50



Operator: E&B Natural Resources  
 Legal name: Wilmington  
 ST/RD No: 0  
 Field: Wilmington  
 AFI No: 04-037-22620  
 Spud Date: 4/3/1982  
 Current Status: PROPOSED  
 Status Date: 1/9/2015

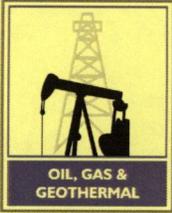
Section: 19  
 Township: 4  
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HOLE INFO		CASING DETAILS		CEMENT DETAILS		EQUIPMENT		PERFS / SLOTS		GEO INFO	
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14.750	12-595				PRIM CMT	CLASS G	133.0		12-595	Ground Level						
9.875	595-4247	10.750	40.5ppf, J55	12-592												
					PRIM CMT	CLASS G	118.8		1,730-4,218						BFW2,107	
					PRIM LINER CEMENT	CLASS G	24.8		2,500-4,144						Tar3,788	
		5.000	18.0ppf, L-80	2,500-4,144											RangerEV 4,100	
12.000	4,218-4,345	7.000	23.0ppf, K55	12-4,218										4,203-4,204	CLOSED, 4/16/1982	RangerF 4,214
6.250	4,345-4,422	5.000	18.0ppf, N-80	4,144-4,345										4,232-4,345	OPEN, 4/18/1982	RangerM 4,280
																RangerH 4,344

49



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 114-1096

## REPORT ON OPERATIONS

### WATER FLOOD PROJECT

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

Cypress, California  
October 08, 2014

Your operations at well "**Wnf-I**" 8, A.P.I. No. **037-22620**, Sec. **19**, T. **04S**, R. **13W**, **SB B.&M.**, **Wilmington** field, in **Los Angeles** County, were witnessed on **7/28/2014**, by **Todd Tyler**, a representative of the supervisor.

The operations were performed for the purpose of **performing a standard annular pressure test of the 7" casing.**

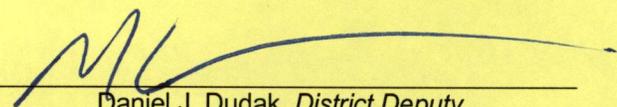
DECISION: **APPROVED**

DEFICIENCIES NOTED AND CORRECTED: None

MW/kj

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

By

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

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

114-1096  
T ~~#~~  
m

Report on Operations

OPERATOR E&B Resources

Your operations at well "Wnfi" 8 API No. 037-22620

Sec \_\_\_\_\_, T \_\_\_\_\_, R \_\_\_\_\_, \_\_\_\_\_, B. & M.

Wilmington Field, in Los Angeles County,

were witnessed on 7/28/14 by "Todd" Edward Tyler, representative of

the supervisor, was present from 10:00 to 12:00

There was also present Jim Shaffer (Foreman), Eli Rovang (Operator)

Present condition of well: No change.

*performing a standard annual pressure test of*

The operations were performed for the purpose of ~~pressure testing~~ the 7" casing. The casing was

pressure tested with 1647 psig for 20 minutes. There was 0 pressure drop.

Packer Depth: 4218'

DECISION:

The pressure test is  Approved  Not Approved

CONTRACTOR: Welaco

UNCORRECTABLE DEFICIENCIES:

None

DEFICIENCIES NOTED AND TO BE CORRECTED:

None

DEFICIENCIES NOTED AND CORRECTED:

None

47

1982 OH 04  
1983 CTI

.5503

10 7/4" 40.5# 14 7/4"  
425 SX / 488 CF  
-38 CS9  
= 809 lf  
+635X  
top 5'6"

592'

CTDC  
2720'

2250' ± BFW

.2644

.2210

7" 23# 9 7/8"  
377 SX / 433.5 CF  
-37 CF CS9  
= 1497 lf  
CTDC 2720'

4210'

4213' F

5" 18# 4 1/2"  
slotted  
gravel pk

4345

TID 4397



# DEPARTMENT OF CONSERVATION

*Managing California's Working Lands*

## Division of Oil, Gas, & Geothermal Resources

5816 CORPORATE AVENUE • SUITE 200 • CYPRESS, CALIFORNIA 90630-4731

PHONE 714 / 816-6847 • FAX 714 / 816-6853 • WEB SITE conservation.ca.gov

May 07, 2013

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

Subject: Overdue SAPT  
Wilmington Field

Dear Mr. McAdams:

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

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

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

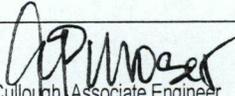
Sincerely,

Martin Wells  
Associate Oil and Gas Engineer

Cc: Update  
Well file

MW/ND

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

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

**OPERATOR STATUS ABBREVIATIONS**

**FORM AND RECORD CHECK LIST**

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

OGD156 (Modified 1/00)

E & B Natural Resources Mgmt. Corp.

# **WELL TRANSFER NOTICE**

On 12-21-98

**XL OPERATING COMPANY**

transferred

all wells in the Wilmington field

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

to

**FOUR TEAMS OIL PROD. & EXPL., INC.**

43

# 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*

42

**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.  
May 18, 1987

Your operations at well "WNF-1" 8, API No. 037-22620,  
Sec. 19, T. 4S, R. 13W, S.B.B. & M. Wilmington Field, in Los Angeles County,  
were witnessed on 4-7-87 by G. Chakmakian, Engineer, representative of  
the supervisor, was present from 1500 to 1630. There were also present D. Woosley,  
Drilling Foreman

Present condition of well: 10-3/4" cem 592'; 7" cem 4218', perf 4203' WSO; 5" ld 4141'-4345',  
perf 4232'-4340'. TD 4420'.

The operations were performed for the purpose of demonstrating that all of the injection fluid  
is confined to the formations below 4203'.

DECISION: APPROVED.

NOTE: DEFICIENCIES CORRECTED  
NONE

DEFICIENCIES TO BE CORRECTED  
NONE

UNCORRECTABLE DEFICIENCIES  
NONE

CONTRACTOR: Prime Perforating

GC: mh

cc: Update

41

M. G. MEFFERD  
State Oil and Gas Supervisor  
William E. Brannon  
Deputy Supervisor  
for V. F. Gaede

DIVISION OF OIL AND GAS  
WATER SHUTOFF TEST

No. T 187-276

Operator Xtra Energy Corporation

Well designation "WNF-I" 8 Sec. 19, T. 4S, R. 13W, SB B.&M.

Field Wilmington, County LA was tested for water shutoff on 4/7/87. (Name) G Chakmakian, representative of the supervisor, was present from 1500 to 1630. Also present were D. Woosley O.F.

Casing record of well: 10 3/4" cem 592'; 7" cem 4218', perf 4203' WSO;  
5" Id 4141' - 4345', perf 4232' - 4340'. TD 4420'

The operations were performed for the purpose of (P) 4203'

- 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 4203 ' at this time.

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

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

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 137 B/D & 1560 psi on 4/6/ 1987,  
fluid confined below 4203 ' (Packer depth 3435 ' )  
Pick-up @ 4335' csg open

40

**DEFICIENCIES NOTED AND CORRECTED:**

None

**DEFICIENCIES NOTED AND TO BE CORRECTED:**

None

**UNCORRECTABLE DEFICIENCIES:**

None

**CONTRACTOR:**

Prime Perforating

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

Company Xtra Energy Corp Well No. "WNF-I" 8  
 API No. 097-22620 Sec. 19, T. 4S, R. 13W, S.B. B.&M.  
 County Los Angeles Field Wilmington

<u>RECORDS RECEIVED</u>	<u>DATE</u>	<u>STATUS</u>	<u>STATUS</u>
Well Summary (Form OGD100)		Producing - Oil	Water Disposal
History (Form OGD103)	<u>5-14-84 (2)</u>	Idle - Oil	Water Flood <input checked="" type="checkbox"/>
Core Record (Form OGD101)		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>11-17-83</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 OGD159 (Final Letter)
5. Form OGD150b (Release of Bond)
6. Duplicate logs to archives
7. Notice of Records due (F-OGD170)

UPDATE CENTER 6/95/84

RECORDS NOT APPROVED  
Reason: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

RECORDS APPROVED William E. Brannon  
 RELEASE BOND \_\_\_\_\_  
 Date Eligible \_\_\_\_\_  
 (Use date last needed records were received.)  
 MAP AND MAP BOOK 128 6/5/84

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 "WNE-I" #8 Sec. 19, T. 4S, R. 13S S.B. & M.  
 A.P.I. No. 037-22620 Name John D. Carmichael Title Sr. Vice president  
 Date May 9, 19 84 (Person submitting report) (President, Secretary or Agent)

Signature John D. Carmichael

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

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

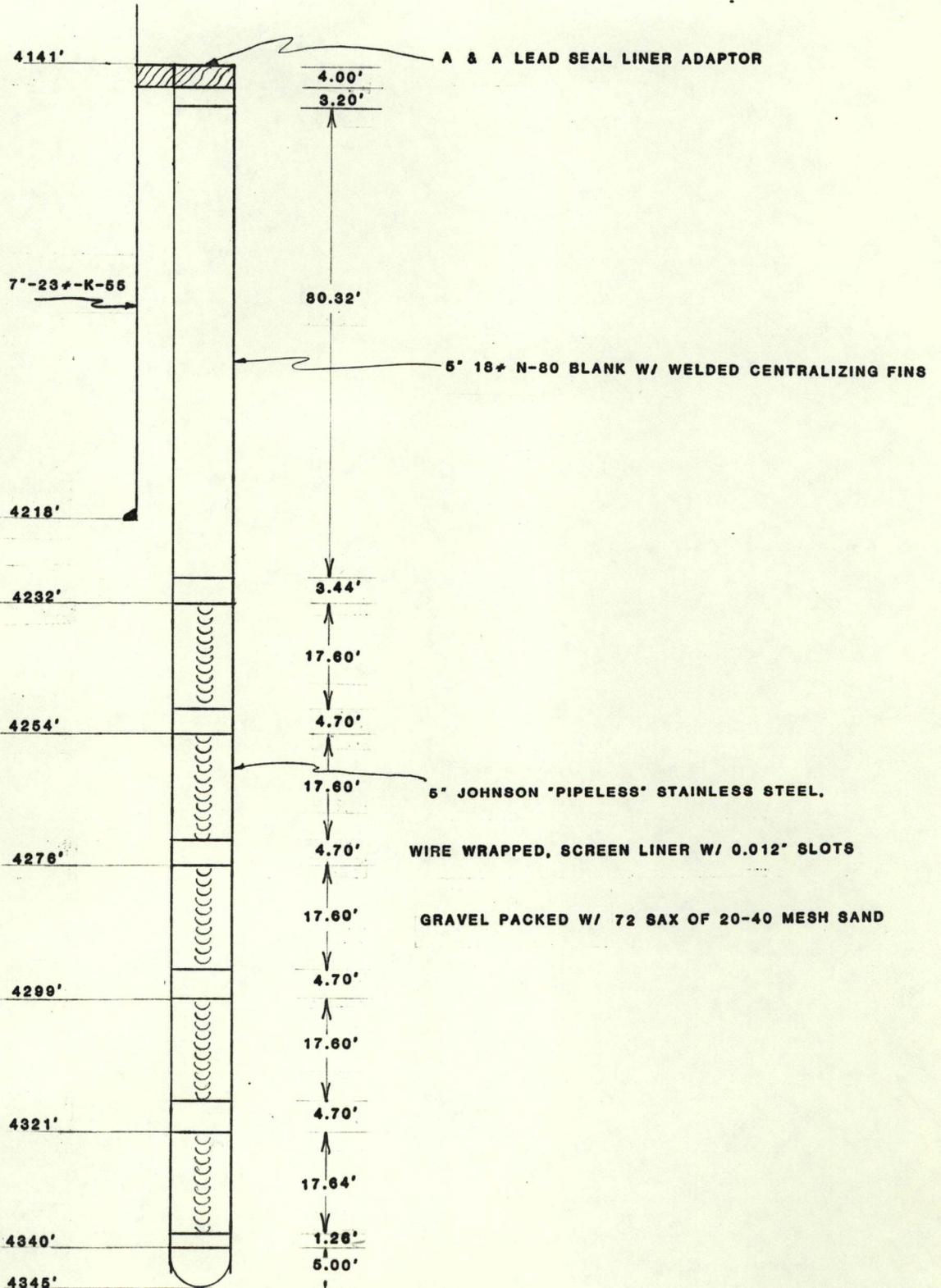
Date	
11-4-83	<u>Convert to Injection.</u> MIRU Pulled and laid down rods and pump. Picked up 7 jts tbg and tagged fill at 4341'. Bottom at 4345'.
11-5-83 to 11-6-83	IDLE
11-7-83	Pulled and laid down tubing. Ran bell collar, no-go nipple, 1 jt 2-7/8" tubing, Otis 7" PRC pkr, pup, 126 jts 2-7/8" tbg. Replaced 2 leaky jts.
11-8-83	Continued with x-nipple and 2 jts 2-7/8" tbg. Set pkr with top @ 4080'. Tbg internally coated hung at 4122'. Unlatched from pkr. Displaced annulus with chem treated water. Changed out leaky flange. Latched into packer and tested. Changed out leaky flange again. Pressure csg to 500 psi. Slow leak off noted. RDMO.
11-17-83	<u>On Water Injection.</u> 545 B/D @ 1700 psi.



# XTRA ENERGY CORP.

## LINER DETAIL

WELL NO. 8 (I-13)



**DIVISION OF OIL AND GAS**

**Report on Operations**

WATERFLOOD PROJECT

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

Long Beach Calif.  
February 23, 1984

Your operations at well "WNF-I" 8, API No. 037-22620  
Sec. 19, T4S, R13W S.B.B.&M. Wilmington Field, in Los Angeles County,  
were witnessed on 12-22-83 by M. Johnson, representative of  
the supervisor, was present from 1000 to 1200. There were also present Rick Smith,  
Drilling Foreman.

Present condition of well: 10 3/4" cem 592'; 7" cem 4218', perf 4203' WSO;  
5" ld 4141'-4345', perfs 4232'-4340'. TD 4420'.

The operations were performed for the purpose of demonstrating that all of the injec-  
tion fluid in confined to the formations below 4218'.

DECISION: APPROVED.

NOTE: DEFICIENCIES TO BE CORRECTED  
None

DEFICIENCIES CORRECTED  
None

CONTRACTOR  
Cooper & Brain, Inc.

MJ:gah

cc: Update

M. G. MEFFERED  
State Oil and Gas Supervisor

*[Signature]*  
for V. F. Gaede, Deputy

D40 12-27

DIVISION OF OIL AND GAS

WATER SHUTOFF TEST

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

Operator XTRA ENERGY CORPORATION

Well designation "WNF-I" 8 Sec. 19, T. 45, R. 13W, 5R B.&M.

Field WILMINGTON, County LOS ANGELES was <sup>REVIEWED</sup> tested for water shutoff on 12/22/83. (Name) MARK JOHNSON, representative of the supervisor, was present from 1000 to 1200. Also present were RICK SMITH, D.F.

Casing record of well: 10 3/4" CEM 592'; 7" CEM 4218'; PERFS 4203' WSD; 5" ID 4141'-4345'; PERFS 4232'-4340'. TD 4420'.

The operations were performed for the purpose of (P) 4218'

- 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 4218' 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 316 B/D & 1620 psi on 21 DEC 1983,  
fluid confined below 4218' (Packer depth 4080')

33

DEFICIENCIES--TO BE CORRECTED

NONE

DEFICIENCIES--CORRECTED

NONE

CONTRACTOR

COOPER + BEAN, INC.



S  
CONVERT

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	10-24-83 CP	10-24-83 CP

DIVISION OF OIL AND GAS

In compliance with Section 3203, Division 3, Public Resources Code, notice is hereby given that it is our intention to rework well WNF-I (#8), API No. 037-22620  
*(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 4422'
- Complete casing record, including plugs and perforations  

10 3/4"	40.5#	K-55	592'		
7"	23#	K-55	4218'		
5"	18#	K-55	Top @ 4144'	Shoe @ 4345'	See Liner Detail Attached.

3. Present producing zone name Ranger; Zone in which well is to be recompleted Ranger

4. Present zone pressure 1350; New zone pressure 1350

5. Last produced 10-15-83 6 2 0  
*(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 a producer to an injector.

**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 10/13/83  
*(Signature) (Date)*



STATE OF CALIFORNIA  
DEPARTMENT OF CONSERVATION  
DIVISION OF OIL AND GAS

REPORT ON PROPOSED CHANGE OF WELL DESIGNATION

Long Beach, California

October 17, 1983

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

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

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

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

M. G. MEFFERD, State Oil and Gas Supervisor

By Richard C. [Signature]

FOR V. F. GAEDE, Deputy Supervisor

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

Sec. 20-4S-13W

OLD	NEW	API
"Shell Unit" 1	"WNF-I" 32	21729
"Shell Unit" 2	"WNF-I" 40	21769

Sec. 29-4S-13W

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

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

Company Xtra Energy Well No. 8  
 API No. 037-22620 Sec. 19, T. 45, R. 13W, S. B. B.&M.  
 County L.A. Field Wilmington

RECORDS RECEIVED	DATE	
Well Summary (Form OGI00)	<u>10/20/82</u>	<u>(2)</u>
History (Form OGI03)		
Core Record (Form OGI01)		
Directional Survey	<u>10/20/82</u>	<u>(2)</u>
Sidewall Samples		
Other		
Date final records received		
Electric logs:		
<u>Dual ind.</u>	<u>10/20/82</u>	<u>(2)</u>
<u>Dual ind.</u>	<u>10/20/82</u>	<u>(2)</u>

STATUS	STATUS
Producing - Oil	<u>X</u> Water Disposal
Idle - Oil	Water Flood
Abandoned - Oil	Steam Flood
Drilling - Idle	Fire Flood
Abandoned - Dry Hole	Air Injection
Producing - Gas	Gas Injection
Idle - Gas	CO2 Injection
Abandoned - Gas	LPG Injection
Gas-Open to Oil Zone	Observation
Water Flood Source	
DATE	<u>4-18-82</u>
RECOMPLETED	
REMARKS	

ENGINEER'S CHECK LIST

- Summary, History, & Core record (dupl.)
- Electric Log
- Operator's Name
- Signature
- Well Designation
- Location
- Elevation
- Notices
- "T" Reports
- Casing Record
- Plugs
- Surface Inspection
- Production 5-12-82
- E Well on Prod. Dir. Sur.

CLERICAL CHECK LIST

- Location change (F-OGD165)
- Elevation change (F-OGD165)
- Form OGD121
- Form OGI59 (Final Letter)
- Form OGD150b (Release of Bond)
- Duplicate logs to archives
- Notice of Records due (F-OGD170)

UPDATE CENTER 11/30/82

BB

RECORDS NOT APPROVED  
Reason: \_\_\_\_\_

RECORDS APPROVED 11-12-82

RELEASE BOND \_\_\_\_\_  
 Date Eligible \_\_\_\_\_  
 (Use date last needed records were received.)  
 MAP AND MAP BOOK 128

F

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

API No. 037-22620

# WELL SUMMARY REPORT

Operator <b>Xtra Energy Corporation</b>		Well <b>No. 8</b>			
Field <b>Wilmington</b>		County <b>Los Angeles</b>		Sec. <b>19</b>	T. <b>4S</b>
Location (Give surface location from property or section corner, street center line and/or California coordinates) <b>72' NORTH ALONG PROPERTY LINE &amp; 106' EAST AT RT ANGLES FROM THE S.W. CORNER OF PROPERTY WHICH IS N.E. CORNER OF MAIN ST &amp; AT&amp;SF</b>		R. <b>13W</b>	B.&M. <b>S.B.</b>	Elevation of ground above sea level RR. <b>38</b>	

Commenced drilling (date) <b>4-3-82</b>	Total depth			Depth measurements taken from top of:	
	(1st hole) <b>4422'</b>	(2nd)	(3rd)	<input type="checkbox"/> Derrick Floor	<input type="checkbox"/> Rotary Table
Completed drilling (date) <b>4-18-82</b>	Present effective depth <b>4340'</b>			Which is feet above ground	
Commenced producing (date) <b>5-12-82</b>	Junk			GEOLOGICAL MARKERS	
<input type="checkbox"/> Flowing <input checked="" type="checkbox"/> Pumping <input type="checkbox"/> Gas lift				"F" MARKER	
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	13	14.5	28	-	60 psi	60 psi
Production After 30 days	13	14.5	24	-	60 psi	60 psi

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	592	40.5	J-55	New	14-3/4"	425 sx	
7"	Surf	4218	23	K-55	New	9-7/8"	377	
5"	4144	4345	18	N-80	New	6" OPEN TO 12" GVL		PKD.

PERFORATED CASING (Size, top, bottom, perforated intervals, size and spacing of perforation and method.)  
SEE LINER DETAIL ATTACHED  
5" WIRE WRAPPED SCREEN LINER WITH 0.012" SLOTS, GRAVEL PACKED WITH 72 SX 20-40 MESH SAND.

Was the well directionally drilled? If yes, show coordinates at total depth  
 Yes  No **1603' NORTH & 1293' EAST @ 4419' - TVD = 3719'**

Electrical log depths  
**4422' to 594'**

Other surveys

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>JOHN D. CARMICHAEL</b>		Title <b>SENIOR VICE PRESIDENT</b>	
Address <b>717 WALTON STREET</b>		City <b>SIGNAL HILL, CA</b>	Zip Code <b>90806</b>
Telephone Number <b>(213) 424-8549</b>	Signature <i>John D. Carmichael</i>	Date <b>October 15, 1982</b>	



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 No. 8 Sec. 19, T. 4S, R. 13W S.B. B. & M.  
A.P.I. No. 037-22620 Name John D. Carmichael Title Senior Vice President  
Date October 15, 19 82 (Person submitting report) (President, Secretary or Agent)

Signature John D. Carmichael

717. Walton Street., Signal Hill, CA 90806 (Address) (213) 424-8549 (Telephone Number)

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

- | Date |   |
|------|---|
| 4-3  | MI fr Well No. 10. Spud in @ 4:00 A.M. 4-3-82, now drlg @ 77'. No mud rpt.  |
| 4-4  | Cont'd drlg & surveying fr 77' to 595', made wiper trip, C & C mud, POH, RIH w/15 jts 10-3/4" - 40.5#, J-55, ST&C csg eqpd w/B & W stab in shoe, RIH w/stab in tool, shoe @ 592', Dowell pmpd 50 CF of wtr, 225 sx "G" cmt mixed 1:1:4 w/perlite & gel plus 2% CaCl <sub>2</sub> , followed by 200 sx "G" cmt neat mixed w/2% CaCl <sub>2</sub> , full returns during job but no cmt returns, CIP @ 3:00 A.M., POH w/stab in tool, Now WOC for top job @ 6:00 A.M. Mud wt 78#/CF, WL 14.4 cc, vis 58", solids 15%.  |
| 4-5  | 6:00 A.M. Ran 90' x 1" pipe dn annulus, pmpd in 63 sx "G" cmt, good rtns, top job completed @ 7:30 A.M. by Dowell cmtrs. Rig down Dowell cut off 10-3/4" csg 24.60, weld on 10-3/4" wellhead. Install class III BOE Revamp flow line, tst blind rams w/1000 PSI, OK, make up bit & assy, RIH to 500', test class III BOE to 1000 PSI, OK, witnessed by Stephen Mulgreen, DOG, Cont R.I. to "G" cmt @ 524' = 38#/CF, cmt inside 10-3/4" csg. Drill out to 564', C & C mud, cont'd drlg out cmt, drill out shoe @ 593', drill to 650' POH, stand back drlg assy, make up Dynadril assy, RIH to 650', orient tool, drill to 680' @ 6:00 A.M. Mud wt 76#/CF, WL 12.4 cc, vis 40", solids 13%. |
| 4-6  | Cont'd drlg & surveying fr 680' to 1339'. SS @ 1252', 18°, N 42° E, hole is 22' hi & 1' left. CB mud wt 76#/CF, WL 10.5 cc, vis 40", solids 12%.  |
| 4-7  | Cont'd Dynadril fr 1339' to 1492', POH w/Dynadril, RIH w/bldg set up, ream fr 650' to 1492', drld to 1964', now POH. SS @ 1934', 39° 45', N 43° 30' E, hole is 18-1/2' hi & 9-1/2' rt. CB mud wt 76#/CF, WL 10 cc, vis 49", solids 13%.   |
| 4-8  | Fin POH, Chng drlg assy, RIH, drld & surveyed fr 1964' to 2323', RT for Dynadril, pmp lnr cut out, rig dn for reprs. SS @ 2293', 41°, N 45° 30' E, hole is 19' hi & 34' rt. CB mud wt 76#/CF, WL 10.5 cc, vis 49", solids 13%.  |
| 4-9  | Fin rep pmp, RIH w/Dynadril to 2323', drld & surveyed to 2508', POH w/Dynadril, RIH w/lock in set up, stuck pipe @ 2476' @ 12:45 A.M. now wrkg stuck pipe & spotting oil. SS @ 2473', 41° N 38° 30' E. Hole is 18-1/2' hi & 41' rt. CB mud wt 75#/CF, WL 5.6 cc, vis 43", solids 12%.   |
| 4-10 | Cont'd wrkg stuck pipe, Dialog RU and ran Free point, stuck @ 2267', Bkd off DC @ 2267', Bkd off DC @ 2267', POH, RIH w/screw-in sub, Bmpr sub, jars 5 - 6" DC & accelerator, circ @ top of fish, screw into fish, jar on fish 15 min, came free, POH w/comp fish, RIH w/stiff drlg assy, ream fr 2297' to 2508', now drlg. CB mud wt 75#/CF, vis 42", WL 10.5 cc, cake 1/32", 12% solids, 8% oil.  |

1-10  
1-9  
1-8  
1-7  
1-6  
1-5  
1-4  
1-3  
1-2  
1-1

RECEIVED  
OCT 20 1 37 PM '82  
DIV. OF OIL AND GAS  
LONG BEACH, CA.

THIS DOCUMENT CONTAINS INFORMATION OF A CONFIDENTIAL NATURE

UNITED STATES DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT  
WASHINGTON, D.C. 20250

DIVISION OF OIL AND GAS  
DEPARTMENT OF THE INTERIOR  
WASHINGTON, D.C. 20250

22

4-11

Cont'd drlg & surveying fr 2508 to 3014', C & C mud, POH, reprd cathead on drlr's side, RIH w/new 9-7/8" bit, cont'd drlg, now @ 3014'. Rig down fr 3 A.M. to 5 A.M. for reprs. SS @ 3009', 43° 15' N 36° E, hole is 19' hi & 26' rt. CB mud wt 76#/CF, WL 10 cc, vis 24", solids 13%.

4-12

Cont'd drlg fr 3014' to 3180', C & C mud, trip for Dynadril, Dynadrld fr 3180' to 3310', C & C mud, now POH, SS @ 3265', 42° 45', N 40° E, hole is 16' rt & 33' hi. CB mud wt 73#/CF, vis 41", WL 9.5 cc, 1/32" cake, 10% solids, 4% oil.

4-13

Fin POH, RIH w/drlg assy, drld & surveyed fr 3310', now drlg @ 4160', SS @ 4092', 36° 30', N 42° E, hole is 4' hi & 22' rt. CB mud wt 74#/CF, WL 8.5 cc, cake 2/32", 11% solids, 6% oil.

4-14

Cont'd drlg & surveying fr 4160' to 4247', POH, RIH w/6-1/4" drlg assy, drld & surveyed to 4422', C & C mud for log, POH w/Scientific drlg MSS, DA ran IES log fr 4422' to 593'. SS @ 4397', 37° N 43° E, hole is 24' lo & 44' rt. CB mud wt 75#/CF, vis 60", cake 2/32", solids 12%, oil 5%.

4-15

DA fin rng IES log, RIH w/9-7/8" drlg assy to 4247', C & C mud, POH, LD 4-1/2" DP, run 7", K-55, 23# Buttress csg as follows: B & W basket shoe, 2 jts csg, B & W FC, 116 jts csg to surf, centralizers on 1st, 2nd, 4th and 6th jts, shoe @ 4218", FC @ 4152', B-J cmtrs pmpd 80 CF mud sweep, 292 sx "G" cmt mxd 1:1:4 (cmt, perlite, gel) w/2% CaCl<sub>2</sub>, followed by 85 sx "G" cmt neat w/2% CaCl<sub>2</sub>, dsplsd cmt & bmpd plg w/1000#, CIP @ 11 PM, drop 7" csg slips, land 7" csg w/10,000# over wt of pipe, rmvd BOP, cut off 25.06' of 7" csg & weld on tbg hd, now instlg BOP. CB mud wt 75#/CF, vis 40", WL 10 cc, 10% solids, 4% oil.

4-16

Fin F/U BOP, tst w/1000# OK, RIH w/6-1/4" bit & csg scrpr, P/U 3-1/2" DP, fnd cmt @ 4049', 103' above FC, C/O to 4209', C & C mud, POH, WIH w/Lynes WSO tools, shot 4 - 1/2" holes @ 4203', set pkr @ 4158', tail to 4187', tool opn @ 1:15 A.M. li blo 2 min then dead for remainder of hr tst, POH, recov'd 3' of mud, test approved by DOG, WIH w/6-1/4" bit, now D/O cmt @ 4209' @ 6 A.M. CB mud wt 75#/CF, vis 40", WL 10 cc, cake 2/32", 10% solids, 0.5% snd, 4% oil.

4-17

C/O fr 4209' to shoe @ 4218', D/O shoe & C/O to 4422', dspls CB mud w/Polymer, POH, RIH w/Servco hole opnr, open hole to 12" to 4303', RT to chng hole opnr, cont'd opng 12" hole to 4345', P/U to shoe, gauge hole thru reamed section, circ cln, hole filled w/cuttings fr 4420' to 4345', now POH @ 6 A.M. Polymer mud wt 72#, vis 39", PV 16, YP 12, WL 7.4 cc, cake - film, 93,000 ppm Cl, solids 3%, 3% KCl.

4-18

Fin POH w/hole opnr, GO ran Caliper log fr 4218' to 4345', RIH w/5" Johnson wire wrapped liner, 200.08' overall, shoe @ 4345', adaptor @ 4145', pmpd 56 CF pre-pad, 102 CF 20-40 mesh snd, 28CF post pad, pmp rate of 2 bbl/min, 650# - 750#, final press 1900#, rvsd out, left 50 CF in place, pmpd 5 CF pre-pad, 42CF 20-40 snd, 3 CF post pad, dsplsd @ 2 bbls/min @ 1200#, final press 1800#, revs 22 CF, total of 72 CF of sand in place, POH, RIH w/A & A lead seal, set seal w/top @ 4141', chng over to salt wtr, POH & LD 3-1/2" DP, now rmvg BOP @ 6 A.M.

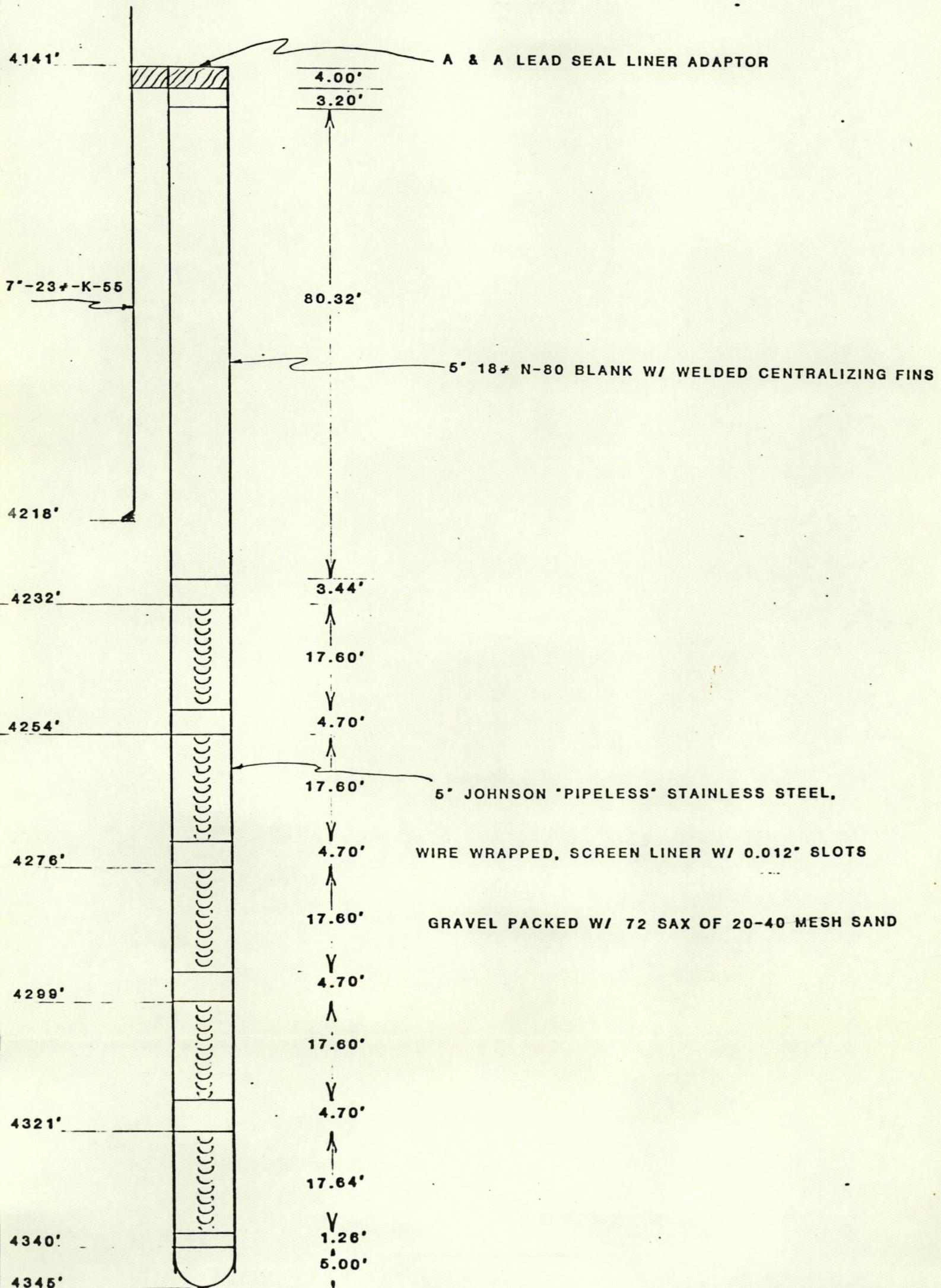
4-19

Fin rmvg BOP, landed 2 jts 2-7/8" tbg in tbg head, instld tbg head top. RR @ 11 A.M. 4-18-82, RD to move to Well No. 29 (I-15).

# XTRA ENERGY CORP.

## LINER DETAIL

WELL NO. 8 (I-13)





AMF / SCIENTIFIC DRILLING  
5641 ENGINEER DR. HUNTINGTON BEACH, CA.

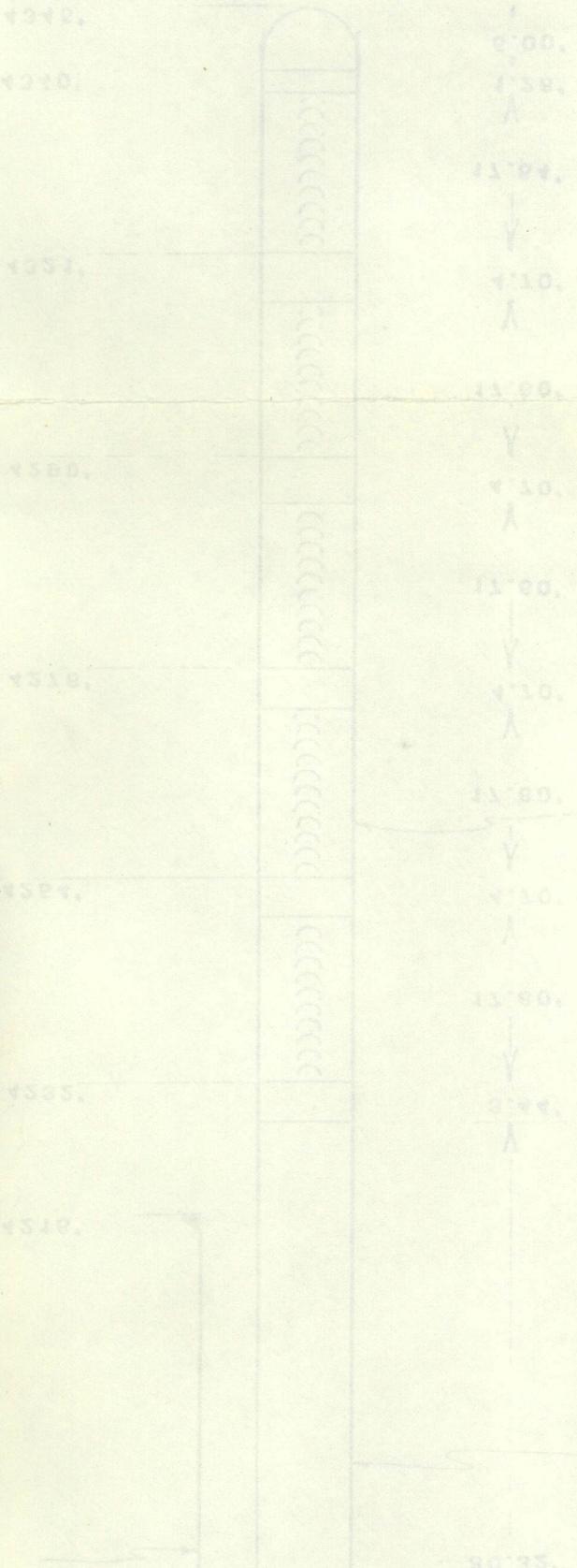
MAGNETIC DIRECTIONAL SURVEY

E & B Natural Resources Management Corp.

JOB NUMBER: MMS-1282-019-MBM  
WELL NAME: "WNF-I" NO. 8 037-22620  
LOCATION: CITY OF CARSON, LEASE WNF-1  
SURVEY DATE: 04/14/82  
SURVEY ENGINEER: MARK MAYNARD  
MAGNETIC DECLINATION: AT 14.00 E  
METHOD OF CALCULATION: THE RADIUS OF CURVATURE  
VERTICAL SECTION: CALCULATED USING PROPOSAL NO. IN 39-18 E  
COMMENTS: 0-90 DEGREE COMPASS SN-833  
PMS CAMERA 155

DRILLING  
CONTROLS

\*\*\*\*\*  
\* THIS SURVEY IS CORRECT TO THE BEST OF MY \*  
\*KNOWLEDGE AND IS SUPPORTED BY ACTUAL FIELD DATA.\*  
\*  
\* *Mark B. Maynard* \*  
\* \*\*\*\*\* \*  
\* COMPANY REPRESENTATIVE \*  
\*\*\*\*\*



RECEIVED  
 Oct 20 1 37 PM '82  
 DIV. OF OIL AND GAS  
 LONG BEACH, CA.  
 R. JOHNSON, DIRECTOR, DIVISION OF OIL AND GAS

9. 18" N-80 STEEL PIPE WITH WELDED CONNECTIONS

100-334-K-00

AMF / SCIENTIFIC DRILLING  
5641 ENGINEER DR. HUNTINGTON BEACH, CA.

JOB NUMBER: MMS-1282-019-MBM

DATE: 04/14/82

## OUTRUN SURVEY

BY

## THE RADIUS OF CURVATURE

MEAS. DEPTH	VERT. DEPTH	VERT. SECT.	COURSE DEV.	INC D M	BEARING D M	COORDINATES LATITUDE DEPARTURE	D-LEG PER 100
----------------	----------------	----------------	----------------	------------	----------------	-----------------------------------	------------------

## SINGLE SHOT SURVEYS FROM 140 FT. TO 575 FT.

140.00	139.99	1.19	1.22	1- 0	N 26- 0 E	1.10 N .54 E	.71
237.00	236.99	2.01	.85	0- 0	N / A	1.88 N .91 E	1.03
330.00	329.99	2.58	.61	0-45	N 17- 0 E	2.14 N 1.09 E	.81
421.00	420.98	3.34	.79	0-15	N 33- 0 E	3.16 N 1.42 E	.57
514.00	513.98	4.16	1.01	1- 0	N 21- 0 W	4.13 N 1.52 E	.94
575.00	574.96	4.75	1.20	1-15	N 21- 0 W	5.25 N 1.09 E	.41

## MAGNETIC MULTIPLE SHOT SURVEY FROM 642 FT. TO 4419 FT.

642.00	641.95	5.28	1.31	1- 0	N 33-30 W	6.41 N .49 E	.52
703.00	702.89	6.87	2.66	4- 0	N 7-30 E	8.95 N .09 W	5.43
764.00	763.63	12.03	5.58	6-30	N 28- 0 E	14.24 N 1.60 E	5.06
825.00	824.19	19.30	7.30	7-15	N 47-30 E	19.98 N 6.05 E	4.00
886.00	884.49	28.39	9.15	10- 0	N 43- 0 E	26.42 N 12.54 E	4.64
947.00	944.47	39.50	11.12	11- 0	N 39-30 E	34.78 N 19.87 E	1.94
1008.00	1004.30	51.39	11.90	11-30	N 43-30 E	43.69 N 27.75 E	1.52
1069.00	1063.66	65.29	13.98	15- 0	N 47- 0 E	53.53 N 37.68 E	5.88
1130.00	1122.30	81.83	16.81	17- 0	N 52- 0 E	64.45 N 50.46 E	3.98

AMF / SCIENTIFIC DRILLING  
5641 ENGINEER DR. HUNTINGTON BEACH, CA.

JOB NUMBER: MMS-1282-019-MBM

DATE: 04/14/82

## OUTRUN SURVEY

BY

## THE RADIUS OF CURVATURE

MEAS. DEPTH	VERT. DEPTH	VERT. SECT.	COURSE DEV.	INC D M	BEARING D M	COORDINATES		D-LEG PER 100
						LATITUDE	DEPARTURE	
1191.00	1180.51	99.89	18.22	17-45	N 40- 0 E	77.08 N	63.54 E	5.99
1252.00	1238.27	119.49	19.61	19-45	N 40-30 E	92.04 N	76.21 E	3.29
1313.00	1295.64	140.23	20.74	20- 0	N 40-30 E	107.81 N	89.68 E	.41
1374.00	1352.54	162.21	21.98	22-15	N 40- 0 E	124.58 N	103.88 E	3.70
1435.00	1408.53	186.40	24.20	24-30	N 40-30 E	143.06 N	119.52 E	3.70
1496.00	1463.47	212.89	26.50	27- 0	N 42- 0 E	162.98 N	136.99 E	4.23
1557.00	1517.20	241.74	28.87	29-30	N 40- 0 E	184.77 N	155.93 E	4.38
1618.00	1569.61	272.91	31.19	32- 0	N 42-30 E	208.21 N	176.49 E	4.60
1679.00	1620.77	306.10	33.22	34- 0	N 41- 0 E	233.00 N	198.61 E	3.54
1748.00	1677.29	345.64	39.57	36- 0	N 42- 0 E	262.64 N	224.83 E	3.02
1801.00	1719.62	377.50	31.89	38- 0	N 42-30 E	286.25 N	246.28 E	3.82
1862.00	1766.93	415.94	38.49	40-15	N 41-30 E	314.85 N	272.03 E	3.83
1924.00	1813.72	456.59	40.67	41-45	N 41-30 E	345.31 N	298.98 E	2.42
1985.00	1859.50	496.83	40.32	41- 0	N 44- 0 E	374.92 N	326.35 E	2.97
2046.00	1905.45	536.84	40.12	41-15	N 43- 0 E	404.02 N	353.97 E	1.15

AMF / SCIENTIFIC DRILLING  
5641 ENGINEER DR. HUNTINGTON BEACH, CA.

JOB NUMBER: MMS-1282-019-MBM

DATE: 04/14/82

## OUTRUN SURVEY

BY

## THE RADIUS OF CURVATURE

MEAS. DEPTH	VERT. DEPTH	VERT. SECT.	COURSE DEV.	INC D M	BEARING D M	COORDINATES LATITUDE DEPARTURE		D-LEG PER 100
2107.00	1951.40	576.92	40.12	41- 0	N 40-30 E	433.95 N	380.68 E	2.73
2168.00	1997.44	616.90	40.02	41- 0	N 43- 0 E	463.81 N	407.33 E	2.69
2229.00	2043.39	656.94	40.12	41-15	N 43- 0 E	493.15 N	434.69 E	.41
2290.00	2089.16	697.19	40.32	41-30	N 42-30 E	522.76 N	462.06 E	.68
2351.00	2135.02	737.38	40.22	41- 0	N 40- 0 E	552.99 N	488.58 E	2.82
2412.00	2181.06	777.37	40.02	41- 0	N 35- 0 E	584.73 N	512.93 E	5.38
2473.00	2227.45	816.85	39.62	40- 0	N 34- 0 E	617.38 N	535.37 E	1.95
2534.00	2273.83	856.32	39.62	41- 0	N 35- 0 E	650.03 N	557.81 E	1.95
2595.00	2319.87	896.17	40.02	41- 0	N 33- 0 E	683.20 N	580.19 E	2.15
2656.00	2365.82	936.05	40.12	41-15	N 33- 0 E	716.85 N	602.04 E	.41
2717.00	2411.59	976.16	40.32	41-30	N 34- 0 E	750.47 N	624.29 E	1.16
2778.00	2457.10	1016.61	40.62	42- 0	N 34- 0 E	784.15 N	647.01 E	.82
2839.00	2502.34	1057.33	40.91	42-15	N 33-30 E	818.17 N	669.74 E	.69
2900.00	2547.14	1098.52	41.41	43-15	N 33-30 E	852.70 N	692.59 E	1.64
2961.00	2591.47	1140.24	41.89	43-30	N 34-30 E	887.43 N	716.02 E	1.20

AMF / SCIENTIFIC DRILLING  
5641 ENGINEER DR. HUNTINGTON BEACH, CA.

JOB NUMBER: MMS-1282-019-MBM

DATE: 04/14/82

## OUTRUN SURVEY

BY

## THE RADIUS OF CURVATURE

MEAS. DEPTH	VERT. DEPTH	VERT. SECT.	COURSE DEV.	INC D M	BEARING D M	COORDINATES		D-LEG PER 100
						LATITUDE	DEPARTURE	
3022.00	2635.63	1182.18	42.09	43-45	N 34-30 E	922.11 N	739.85 E	.41
3083.00	2679.51	1224.39	42.37	44-15	N 34- 0 E	957.14 N	763.70 E	1.00
3144.00	2723.02	1266.97	42.75	44-45	N 34-30 E	992.48 N	787.77 E	1.00
3205.00	2766.25	1309.95	43.04	45- 0	N 38- 0 E	1027.18 N	813.21 E	4.07
3266.00	2810.49	1351.91	41.98	42- 0	N 36-30 E	1060.60 N	838.62 E	5.20
3327.00	2856.00	1392.51	40.62	41-30	N 39- 0 E	1092.72 N	863.49 E	2.85
3388.00	2901.95	1432.63	40.12	40-45	N 38-30 E	1124.01 N	888.60 E	1.34
3450.00	2949.18	1472.78	40.16	40- 0	N 41- 0 E	1154.88 N	914.28 E	2.88
3511.00	2995.91	1511.99	39.21	40- 0	N 39-30 E	1184.81 N	939.62 E	1.58
3572.00	3042.81	1550.99	39.01	39-30	N 39- 0 E	1215.01 N	964.29 E	.97
3633.00	3089.88	1589.79	38.80	39-30	N 40- 0 E	1244.95 N	988.97 E	1.04
3694.00	3137.12	1628.39	38.59	39- 0	N 39-30 E	1274.63 N	1013.65 E	.97
3755.00	3184.61	1666.67	38.29	38-45	N 38-30 E	1304.38 N	1037.75 E	1.11
3816.00	3232.51	1704.43	37.76	37-45	N 39- 0 E	1333.83 N	1061.38 E	1.72
3877.00	3280.91	1741.57	37.13	37-15	N 39- 0 E	1362.69 N	1084.75 E	.82

AMF / SCIENTIFIC DRILLING  
5641 ENGINEER DR. HUNTINGTON BEACH, CA.

JOB NUMBER: MMS-1282-019-MBM

DATE: 04/14/82

## OUTRUN SURVEY

BY

## THE RADIUS OF CURVATURE

MEAS. DEPTH	VERT. DEPTH	VERT. SECT.	COURSE DEV.	INC D M	BEARING D M	COORDINATES LATITUDE DEPARTURE	D-LEG PER 100
3938.00	3329.78	1778.06	36.50	36-15	N 40-30 E	1390.75 N 1108.09 E	2.20
3999.00	3378.98	1814.12	36.07	36-15	N 41- 0 E	1418.08 N 1131.64 E	.48
4060.00	3428.25	1850.06	35.96	36- 0	N 42- 0 E	1445.01 N 1155.47 E	1.05
4121.00	3477.67	1885.79	35.75	35-45	N 40- 0 E	1471.99 N 1178.92 E	1.96
4182.00	3527.41	1921.10	35.31	35- 0	N 40- 0 E	1499.04 N 1201.62 E	1.23
4243.00	3577.53	1955.86	34.77	34-30	N 41-30 E	1525.38 N 1224.31 E	1.62
4304.00	3627.35	1991.03	35.20	36- 0	N 41-30 E	1551.75 N 1247.64 E	2.46
4365.00	3676.46	2027.19	36.18	36-45	N 40-30 E	1579.05 N 1271.37 E	1.57
4400.00	3704.46	2048.19	21.00	37- 0	N 41- 0 E	1594.96 N 1285.08 E	1.12

STATION AT 4419 FT. IS PROJECTED

4419.00	3719.63	2059.62	11.43	37- 0	N 41- 0 E	1603.59 N 1292.58 E	.00
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THE HORIZONTAL DISPLACEMENT AT THE DEPTH OF

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4419.00 FEET EQUALS 2059.68 FEET AT N 38-52 E.

\*\*\*\*\*

4232' MD

AMF / SCIENTIFIC DRILLING  
5641 ENGINEER DR. HUNTINGTON BEACH, CA.  
JOB NO. MMS-1282-019-MBM DATE 04/14/82

OUTRUN SURVEY

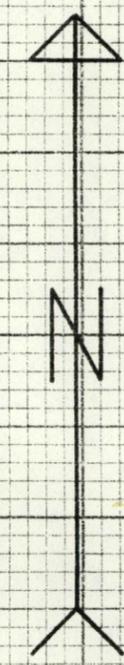
BY

RADIUS OF CURVATURE



HORIZONTAL DISPLACEMENT AT 4419 FEET

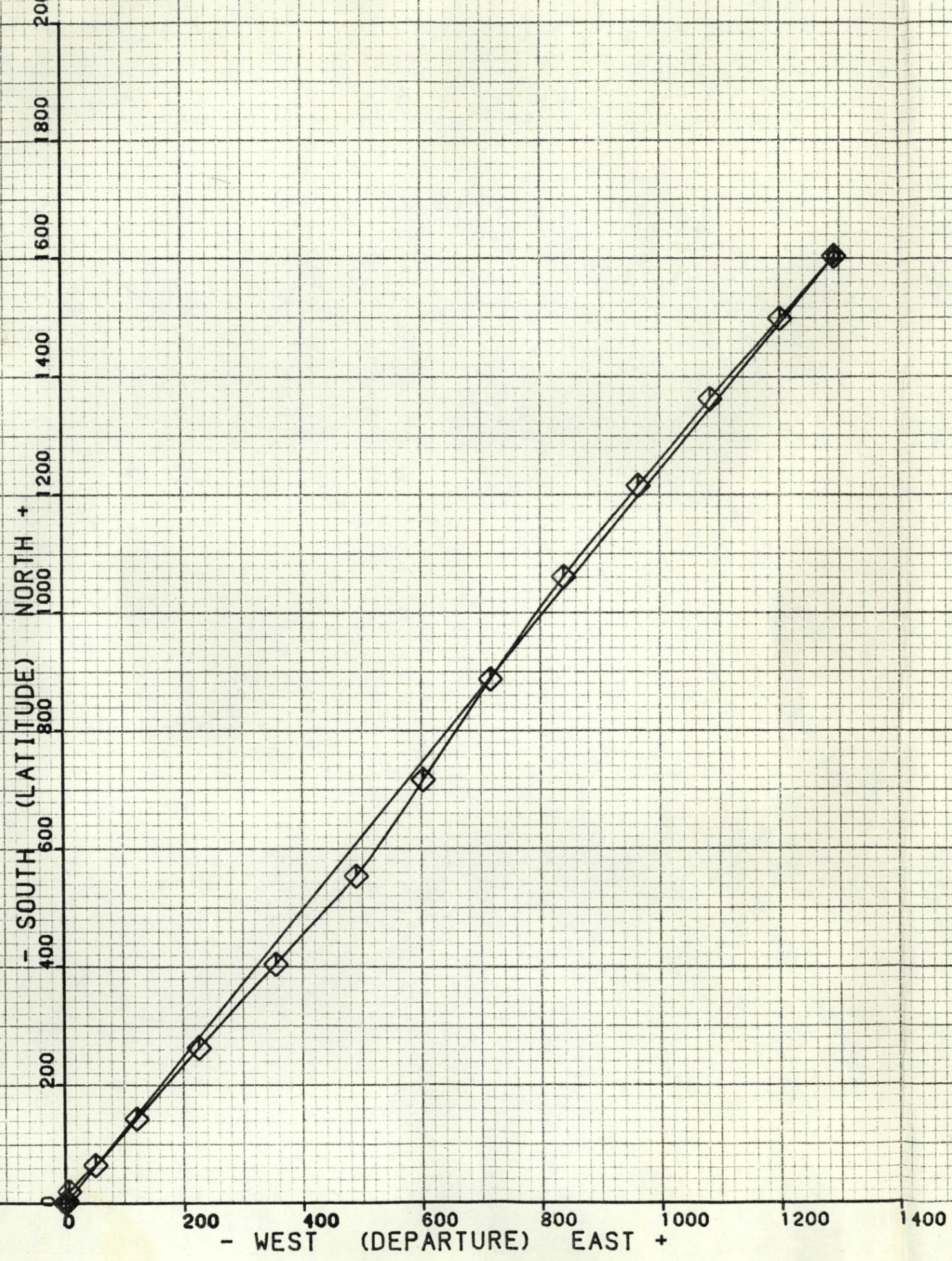
EQUALS 2059.68 FEET AT N 38° - 52 E



PLAN VIEW

SCALE = 200.00 FEET/INCH

◇ DENOTES EVERY 5TH. STATION



**DIVISION OF OIL AND GAS**

**Report on Operations**

SEC. 3606 WELL

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

Long Beach Calif.  
May 21, 1982

Your operations at well 8, API No. 037-22620,  
Sec. 19, T. 4S, R. 13W, S.B.B. & M. Wilmington Field, in Los Angeles County,  
were witnessed on 4-16-82. E. Santiago, Engineer, representative of  
the supervisor, was present from 0400 to 0500. There were also present D. Eatman,  
Drilling Foreman.

Present condition of well: 10-3/4" cem 593'; 7" cem 4209', perf 4203' WSO. TD 4209'  
(Drilling).

The operations were performed for the purpose of Testing the 7" shut-off at 4203' with a  
formation tester.

DECISION: APPROVED.

NOTE: DEFICIENCIES TO BE CORRECTED  
NONE

DEFICIENCIES CORRECTED  
NONE

CONTRACTOR: K. L. Kellogg & Sons

ES:da

cc: Update

Blanket Bond

M. G. MEFFERD  
State Oil and Gas Supervisor

By [Signature]  
Deputy Supervisor  
J. L. HARDOIN

17

Operator X-TRA ENERGY

Well designation 8 Sec. 19, T. 45, R. 13W, SB B.&M.

Field WILMINGTON, County L.A., was tested for water shutoff on 4/16/82. (Name) E. SANTIAGO, representative of the supervisor, was present from 0900 to 0500. Also present were DWAYNE EATMAN D.F.

Casing record of well: 10 3/4" cem 543'; 7" cem 4209'; perf 4203' WSO, TD 4209' (DRILLING)

The operations were performed for the purpose of (D-1) 7" @ 4203'

- The 7 " shutoff at 4203 ' 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: 14 3/4 " fr. 0 ' to 593 ' ; 9 7/8 " to 4209 ' ; & \_\_\_\_\_ " to \_\_\_\_\_ ' .

Casing			Cemented			Top of Fill		Sqd. Away	Final Press	Test psi/min. Perfs.
Size	Wt. #	Top	Bottom	Date	MO-Depth	Volume	Annulus			
7"	23#	0	4209'	4/14/82	BUMP PLUG @ FLOAT COLLAR 4218'	3775x	2329'±	4049'	—	1500

Depth or interval tested FOUR 1/2" HOLES @ 4203'  
The hole was open to 4209' for test. MUD WT. 72#

FORMATION TEST:

Packer(s) 4158 ' & \_\_\_\_\_ ' Tail 4187 ' Bean size 3/4 " Cushion NONE  
IHP 1820 IFP 19.0 FFP 22.0 FHP 1813  
Blow MED. TO HARD BLOW FOR 3 MIN AND LITE BLOW FOR THE REMAINDER OF THE TEST.  
Open for test 1 Hr. 0 min. Fluid entry 2' 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 \_\_\_\_\_ ' )

10-338

DEFICIENCIES--TO BE CORRECTED

NONE

DEFICIENCIES--CORRECTED

NONE

CONTRACTOR

K. L. KELLOGG & SONS

DIVISION OF OIL AND GAS

Report on Operations

SEC. 3606 WELL

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

Long Beach Calif.  
May 21, 1982

Your operations at well 8, API No. 037-22620,  
Sec. 19, T. 4S R. 13W, S.B. B. & M. Wilmington Field, in Los Angeles County,  
were witnessed on 4-4-82. S. Mulqueen, Engineer, representative of  
the supervisor, was present from 2000 to 2200. There were also present D. Eatmon,  
Drilling Forman.

Present condition of well: 10-3/4" cem 593'. TD 593' (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. Fill-up line & remote actuating system  
at the drillers station hooked-up.

CONTRACTOR: California Production Services

SM:da

cc: Update

Blanket Bond

M. G. MEFFERD  
State Oil and Gas Supervisor

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

DIVISION OF OIL AND GAS  
BLOWOUT PREVENTION EQUIPMENT MEMO

RHL 4/21/82  
T 182-354

Operator XTRA ENERGY 1 Corporation Well 8 Field WILMINGTON County LOS ANGELES

VISITS: Date Engineer Time Operator's Rep. Title  
 1st 4-4-82 S. MULQUEEN 2000 to 2200 DWAYNE EATMON D.F.  
 2nd \_\_\_\_\_ to \_\_\_\_\_ \_\_\_\_\_

Casing record of well: 10 3/4" CEM 593' TD 593' (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. 0' to 593', \_\_\_\_\_ " 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>32.75</u>	<u>K-55</u>	<u>593'</u>	<u>—</u>	<u>488 SX</u>	<u>CLASS G CEMENT</u>	<u>—</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>—</u>	<u>SHAFFER</u>	<u>GK</u>	<u>10</u>	<u>3000</u>								<u>1000</u>
<u>Rd</u>	<u>4 1/2</u>	<u>SHAFFER</u>	<u>LWS</u>	<u>10</u>	<u>3000</u>								<u>1000</u>
<u>Rd</u>	<u>CSO</u>	<u>"</u>	<u>"</u>	<u>10</u>	<u>3000</u>								<u>1000</u>

ACTUATING SYSTEM			
Accum. Unit(s)	Wkg. Press.	<u>1500 psi</u>	
Total Rated Pump Output	_____ gpm		
Distance From Well Bore	<u>80 ft.</u>		
Mfr.	Accum. Cap.	Precharge	
<u>1 NLACME</u>	<u>80 gal.</u>	<u>750 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.*		<input checked="" type="checkbox"/>	
Other: <u>*NOT WORKING</u>			
EMERG. BACKUP SYST.		Press.	Wkg. Fl.
<input checked="" type="checkbox"/> N2 Cyl	No: <u>4</u>	Tpe: <u>J</u>	<u>1/500 4.5 gal</u>
Other:		<u>21800 6.9 gal</u>	
		<u>32300 10.6 gal</u>	
		<u>42100 9.1 gal</u>	
		<u>5 gal</u>	
		<u>6 gal</u>	

AUXILIARY EQUIPMENT						
	No.	Sz. (in)	Rated Press.	Connections		
				Weld	Flan.	Thrd.
<input checked="" type="checkbox"/> Fill-Up Line <sup>NOT CONNECTED</sup>						
<input checked="" type="checkbox"/> Kill Line		<u>2</u>	<u>3000</u>			<input checked="" type="checkbox"/> 1000
<input checked="" type="checkbox"/> Control Valve(s)	<u>2</u>		<u>3000</u>			<input checked="" type="checkbox"/> 1000
<input checked="" type="checkbox"/> Check Valve(s)	<u>1</u>		<u>3000</u>			<input checked="" type="checkbox"/> 1000
<input checked="" type="checkbox"/> Auxil. Pump Connec.						<input checked="" type="checkbox"/> 1000
<input checked="" type="checkbox"/> Choke Line		<u>2</u>	<u>3000</u>			<input checked="" type="checkbox"/> 1000
<input checked="" type="checkbox"/> Control Valve(s)	<u>5</u>		<u>3000</u>			<input checked="" type="checkbox"/> 1000
<input checked="" type="checkbox"/> Pressure Gauge						<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/> Adjustable Choke(s)	<u>2</u>	<u>2</u>	<u>3000</u>			<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"/> 1000
<input checked="" type="checkbox"/> Lower Kelly Cock		<u>4 1/2</u>	<u>3000</u>			
<input checked="" type="checkbox"/> Standpipe Valve						
<input checked="" type="checkbox"/> Standpipe Pressure Ga.						
<input checked="" type="checkbox"/> Pipe Safety Valve		<u>4 1/2</u>	<u>3000</u>			
<input checked="" type="checkbox"/> Internal Preventer		<u>3 1/2</u>	<u>3000</u>			

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

REMARKS: FILL-UP LINE + REMOTE ACTUATING SYSTEM AT DRILLERS STATION NOT HOOKED-UP

Hole Fluid Type	Weight	Storage-Pits
<u>CLAY BASE</u>	<u>72 lb./cf.</u>	<u>350 BBL</u>



# REPORT ON PROPOSED OPERATIONS

848  
(field code)  
03  
(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  
April 1, 1982

Your \_\_\_\_\_ proposal to Drill well 8  
A.P.I. No. 037-22620, Section 19, T. 4S, R. 13W, S.B. B. & M.,  
Wilmington field, F.B. I, Onshore area, Ranger pool,  
Los Angeles County, dated 3-17-82, received 3-19-82 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. A directional survey shall be made and filed with this division.
7. 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 a test of the effectiveness of the 7" shut-off above the Ranger zone.

RM:da

cc: Update  
EDP

Blanket Bond

M. G. MEFFERD, State Oil and Gas Supervisor

for 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
128	325182	3-24-88	Blanket	3-24-88	3-24-88

In compliance with Section 3203, Division 3, Public Resources Code, notice is hereby given that it is our intention to commence drilling well No. 8, API No. 037-22620 (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 46 acres, is as follows: See Attachment (Attach map or plat to scale)

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 72 feet North along ~~section~~ property line and 106 feet East at right angles to said line from the Southwest corner of ~~section~~ property which is ~~xxxx~~ the North East corner 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: 1907 feet North and 39 feet East

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	J-55	Surf	600'	Cemented to surface	
7 "	23#	K-55	Surf	4196'	4196'	2196'
5 "	18#	N-80	4126'	4296'	Gravel packed wire wrapped	

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

Intended zone(s) of completion Ranger 4196' - 1200 psi F.B. I Estimated total depth 4296'

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>	Zip Code <u>90806</u>	
Telephone Number <u>(213)424-8549</u>	Name of Person Filing Notice <u>John D. Carmichael</u>	Signature <u>John D. Carmichael</u>	Date <u>3-17-82</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

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FOR DIVISION USE ONLY	
District review of environmental document (if applicable)?	Yes <input type="checkbox"/> No <input type="checkbox"/>
Remarks:	<hr/> <hr/> <hr/>

**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.

XTRA ENERGY CORPORATION

PROGRAM FOR DRILLING

WELL No. 8

Reference Point: KB which is 12' above G. E.  
Location: Lambert Coordinates N-4,041,389 E-4,204,682  
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 4196'  
5 " 18 # to be hung at 4296', top @ 4126'.

Perfs: 4198' to 4291' Wire wrapped pipeless Johnson Screen liner with 0.012" slots.

Proposed Hole Size:

0' to 600' 14-3/4" hole  
600' to 4196' 9-7/8" hole  
4196' to 4296' 6-1/4" hole to be underreamed to 12".

Proposed Total Depth: 4296'

Directional Program

Deflect hole at 750' and increase inclination at 3°/100' in a N39°15'E direction to 41° at 2027' (T.V.D. - 1911'). Maintain 41° inclination to total depth of 4296'. Target is a 50' diameter circle with its center 1907' North and 39' East of the surface site. A total displacement of 1907'.

Mud Program

1. For drilling from surface to 600', use a safe fresh water clay base mud.
2. For drilling from 600' to 4296', use a fresh water clay base mud with the following properties.

a.	Weight	72#/CF
b.	Fluid loss	5cc
c.	P.V.	8 - 14
d.	YP	4 - 6
e.	Funnel vis	38 - 42"
f.	Solids	10%

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SUBJECT: [Illegible]

DATE: [Illegible]

BY: [Illegible]

FOR: [Illegible]

RE: [Illegible]

NOTE: [Illegible]

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
c.	YP	20 - 36
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'. Take single shots every 60'.
4. Run 10-3/4", 40.5#, H-40 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 to surface with 200 sacks of API class "G" cement mixed 1:1 with peralites, 2% Gel plus 2% CaCl<sub>2</sub>, followed by enough "G" cement mixed 1:0:0 with 2% CaCl<sub>2</sub> to get returns to surface.
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 4196'. Reduce hole size to 6-1/4" and drill to 4296'.
7. Run Induction electric log from total depth to the shoe of the 10-3/4" casing. Use 30 ohm scale. Four field prints are required including one with 5" scale.
8. Run 7", 23#, K-55 casing to 4196'. 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 with 300 lineal feet of weighted mud sweep followed by 365 sx "G" cement mixed 1:1 perlite, 2% gel and 2% CaCl<sub>2</sub>, followed by 85 sx class "G" cement neat with 2% CaCl<sub>2</sub>. Top to reach 2000'. Land casing.



9. After 24 hours, clean out cement to 4191' (+ 5' above shoe). Pressure test 7" casing to 1000 psi. 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 4196' and clean out to 4296'.
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" 18#, K-55 liner as directed.
14. Gravel pack 5" x 12" annulus with 94 CF of 20 - 40 mesh gravel.
15. Displace Polymer mud in hole with salt water and close in.
16. Move out rotary equipment.

No.8 (I-13)  
JDC:sc  
3-15-82

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EXHIBIT B

ATTACHED TO AND MADE A PART OF  
ASSIGNMENT OF SUBSURFACE OIL AND GAS LEASES  
(Northeast Parcel)

The Northeast Parcel, in the City of Carson, having the following general boundaries:

Avalon Boulevard on the east; Sepulveda Boulevard on the south; Delores Street on the west; and an alley located between 236th Street and 237th Street on the north.

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