

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

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

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.

WELL TRANSFER NOTICE

On 12-21-98

XL OPERATING COMPANY

transferred

all wells in the Wilmington field

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

to

FOUR TEAMS OIL PROD. & EXPL., INC.

WELL TRANSFER NOTICE

Effec February 7, 1997

XTRA ENERGY CORPORATION
TRANSFERRED

all wells Wilmington

(See Operator File for Complete List)

TO

XL OPERATING COMPANY

SEE OGD156 DATED 02-7-97

DIVISION OF OIL AND GAS

CHECK RECORDS RECEIVED AND WELL STATUS

Company Geo Energy Corporation Well No. WNF-T 234
 API No. 037-22787 Sec. 20, T. 4S, R. 13W, S.B. B.&M.
 County Los Angeles Field Wilmington

RECORDS RECEIVED	DATE
Well Summary (Form OG100)	
History (Form OG103)	<u>7-24-91 (2)</u>
Core Record (Form OG101)	
Directional Survey	
Sidewall Samples	
Other	
Date final records received	
Electric logs:	

STATUS	STATUS
Producing - Oil <input checked="" type="checkbox"/>	Water Disposal
Idle - Oil	Waterflood
Abandoned - Oil	Steamflood
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
Gas Storage	Waterflood Source
DATE <u>2/91</u>	"E" well Yes <input type="checkbox"/> No <input type="checkbox"/>
RECOMPLETED	
REMARKS	

ENGINEER'S CHECK LIST

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

CLERICAL CHECK LIST

- Location change (F-OGD165)
- Elevation change (F-OGD165)
- Form OGD121
- Form OG159 (Final Letter)
- Form OGD150b (Release of Bond)
- Duplicate logs to archives
- Notice of Records due (F-OGD170)
- EDP (F-OGD42A-1, 2) OK

UPDATE CENTER 11-20-91

RECORDS NOT APPROVED
 Reason: _____

RECORDS APPROVED DS 9/91
 RELEASE BOND _____
 Date Eligible _____
 (Use date last needed records were received.)
 MAP AND MAP BOOK 0 N/C

CHECK - RECORDS RECEIVED AND WELL STATUS

Well No. _____

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

WORK PERFORMED

STATUS

DATE

Drill _____ Redrill _____ Deepen _____

Producing _____ "E" well Yes No

Plug _____ Alter Casing _____

Recompleted Producing _____

Waterflood _____ Water Disposal _____

Waterflood _____

Abandon _____

Water Disposal _____

Other _____

Abandoned _____

Other _____

MAP AND BOOK _____ Engineer _____

RECORDS FILED AND DATE Clerk _____

RECORDS & REQUIREMENTS CHECKED Engineer _____

Summary _____

Log and Core _____

History _____

E-log _____

Directional Survey _____

Other _____

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

Location _____ Notice states _____

Surface Inspection _____

Data Needed _____

Request Records _____ OGD170 _____

Correct records _____ OGD165 _____

(Specify)

EDP _____ (OGD42A-1, 2) _____

CARDS _____

BOND _____

Hold _____ Reason _____

Release _____ Date Eligible _____ OGD150 _____

End premium year _____

Release requested _____

Bond superseded _____ (Check One)

Well abandoned _____

Environmental Inspection _____ Engineer _____

FINAL LETTER _____ OGD159 _____

and

File cleared _____ OGD121 _____

Production Reports _____

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

API No. 037-22 787

WELL SUMMARY REPORT

Operator XTRA Energy Corporation		Well "WNF-I" 34			
Field Wilmington		County Los Angeles	Sec. 20	T. 4S	R. 13W
Location (Give surface location from property or section corner, street center line and/or California coordinates) 171' North + 992' East of the SW corner of the property, which is the NE corner of the intersection of Main St + the AT + SF right of way.					Elevation of ground above sea level 36'
Was the well directionally drilled? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No If yes, show coordinates at total depth.					

110' South + 2361' East

Commenced drilling (date) 2/8/91	Total depth			Depth measurements taken from top of:	
	(1st hole) 4571	(2nd) 4551	(3rd)	<input type="checkbox"/> Derrick Floor	<input type="checkbox"/> Rotary Table
Completed drilling (date) 2/14/91	Present effective depth 4551			<input checked="" type="checkbox"/> Kelly Bushing	
Commenced Production (date) 2/21/91	Junk None			Which is feet above ground	
Production mode: <input type="checkbox"/> Flowing				GEOLOGICAL MARKERS	
<input checked="" type="checkbox"/> Pumping <input type="checkbox"/> Gas lift				DEPTH	
Name of production/injection zone(s) Ranger				Formation and age at total depth	
				Base of fresh water	

	Clean Oil (bbl per day)	API Gravity (clean oil)	Percent Water (Including emulsion)	Gas (Mcf per day)	Tubing Pressure	Casing Pressure
Initial Production	52.7	14	4%		90	40
Production After 30 days	50.5	14	12%		90	40

CASING AND CEMENTING RECORD (Present Hole)

Size of Casing (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"	Surface	617'	40.5#	K-55	New	14 3/4"	389 CF		Surface
7"	Surface	4448'	23#	K-55	New	9 7/8"	651 CF		
5 1/2"	4342'	4551'	17#		New	11"			

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

5 1/2", Top - 4342', Bottom - 4551', .040" slotted screen ✓

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

Not on sidetrack hole.

In compliance with Sec. 3216, 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 STEVEN T. LAUG	Title PROD Supt
Address 14771 FLORISA RD	City/State LAMBRADO CA
Telephone Number (714) 521-0443	Zip Code 90638
Signature 	Date 8-25-91

RECEIVED
91 AUG 27 PM 2:00
DIVISION OF CR & UAS
LONG BEACH, CA

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"34 Sec. 20., T. 4S., R. 3W., SB. B. & M.
 A.P.I. No. Q3722787 Name STEVE LANG Title AGENT
 Date FEBRUARY 27, 1991 (Person submitting report) (President, Secretary or Agent)

Signature

PO BOX 9, LONG BEACH CA 90801-0009

(213)549-6984

(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	Description
1/29/90	MIRU WORKOVER RIG. N/D TREE, N/U BOPE.
1/30/90	POH W/TBG. PU STC & TIH TO 3,470', TAGGED FILL. CHANGED WELL OVER TO LEASE SW.
12/01/90	RU POWER SWIVEL & CO FILL TO 4,402'.
12/02/90	SDFWE.
12/03/90	SDFWE.
12/04/90	POH. TRIP W/BIT & SCRAPER TO 4,402'. POH. TIH W/PKR & RBP.
12/05/90	SET RBP @ 4,312' & TST CSG TO SURFACE W/1,200 psi. POH. TIH w/1 JT 2 3/8" TBG BELOW PKR AND TAG FILL @ 4,252'. BACK SCUTTLE HOLE CLEAN DOWN TO 4,312', RECOVERED MUD & GRAVEL PK GRAVEL. POH. LD PKR.
12/06/90	TIH w/STC TO 4,312'. BACK SCUTTLE HOLE CLEAN TO 4,390'. COULD GET NO DEEPER. POH. LD TBG. N/D BOPE. N/U TREE. RDMD. WAIT ON DRILLING RIG.
2/05/91	MIRU REPUBLIC #6. N/D TREE. N/U BOPE. TIH W/MULE SHOE, 6 JTS 2 3/8" TBG, P/U 3 1/2" DP.
2/06/91	TIH TO 4,445'. CHANGE WELL OVER TO CLAY BASE MUD (9.4 ppg). ATTEMPT TO ROTATE AND WORK PAST 4,445', PIPE TORQUEING BADLY - APPEARS TO BE COLLAPSED GRAVEL PACK LINER. FAIL TO WORK PAST 4,445'. POH. P/U CSG CUTTER & TIH.
2/07/91	CUT & RECOVER 5" LINER @ 4,436'. TIH W/ 6 1/4" SKIRTED MILL & MILL LINER 4,436' - 4,445'.
2/08/91	MILL 5" LINER 4,445' - 4,492'. POH. TIH W/UNDERREAMER & UNDERREAM HOLE TO 13", 4,441' - 4,453'.
2/09/91	UNDERREAM TO 13", 4,453' - 4,485'. POH. SPOT 90 sx (104 cf) CLASS "G" CMT PLUG 4,468' - 4,213'. DOWN SQZ 13 cf INTO 5" LINER. POH. WOC.
2/10/91	DRILL OUT CMT TO 4,390'. TST CSG TO 1,000 psi & TST BOPE TO 1,000 psi AS PER D.O.G. DRILL OUT CMT TO 4,445'. DISPLACE 9.5 ppg CLAY BASE MUD W/9.7 ppg HEC POLYMER FLUID.
2/11/91	RAISE MW. TO 10.4 ppg. TIH W/ 6 1/4" BIT & MUD MOTOR AND SIDETRACK OFF CMT PLUG @ 4,445'. DRILL 4,445' - 4,551'. POH.
2/12/91	TIH W/UNDERREAMER AND UNDERREAM HOLE TO 11", 4,439' - 4,513'. TOOL PLUGGED, POH. BIT TRIP TO 4,513' W/ 6 1/4" BIT.
2/13/91	POH. TIH w/UNDERREAMER AND GAUGE REAM 4,439' - 4,482'. COULD NOT GO DEEPER. LEFT LIFTING EYE OFF UNDERREAMER IN HOLE (1/2" x 1/2" x 1 1/2"). BIT TRIP TO 4,451'. POH. TIH W/ UNDERREAMER.

RECEIVED
91 MAY 15 PM 12:01
DIVISION OF OIL & GAS
LONG BEACH, CA

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

History of Oil or Gas Well

Operator XTRA ENERGY CORPORATION Field WILMINGTON County .. LOS ANGELES
 Well WNF-I 34 , Sec. 20 .., T 4S .., R ... 3W .., SB. B. & M.
 A.P.I. No. 03722787 Name STEVE LANG Title AGENT
 Date FEBRUARY 27, , 19 .. 91
(Person submitting report) (President, Secretary or Agent)

Signature

PO BOX 9, LONG BEACH CA 90801-0009

(213) 549-6984

(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	
2/14/91	GAUGE REAM 4,439' - 4,513'. UNDERREAM TO 11" 4,513' - 4,551'. MADE BIT TRIP. C & C MUD TO RUN LINER. POH. MU 5 1/2", 17# SLOTTED GRAVEL PACK LINER (.040 SLOTS) AND TIH.
2/15/91	TIH W/LINER. SET ON BOTTOM @ 4,551'. (LINER 4,551' - 4,342'). GRAVEL PACKED w/ 237 cf 10 - 16 MESH GRAVEL. POH. SET DRIVE-ON SEAL ON LINER TOP @ 4,342'. POH. LD DP.
2/16/91	FIN LD DP. TIH W/SEATING NIPPLE & 2 7/8" PRODUCTION TBG TO 4,281'. ND BOPE.
2/17/91	NU TREE. CHANGE WELL OVER FROM 10.4 ppg. HEC POLYMER FLUID TO LEASE SW. RELEASE RIG. RD. MO.
2/21/91	MI. RU. W/O RIG. KIL WELL W/LEASE SW. RUN RODS & PUMP AND PUT WELL TO PUMP.
2/26/91	WELL PUMPING 77 BOPD, 8 BWPD, 3 SPM.

RECEIVED
91 MAY 15 PM 12:01
DIVISION OF OIL & GAS
LONG BEACH, CA

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

XTRA ENERGY CORP.
WELL# 34
ELEV. 58'. K.B.
SURVEY BY EASTMAN
TYPE SINGLE SHOT LAMB. COORD. N 4 041 488 E 4 205 567
MAG. DEC. 14 DEGREES WELL COURSE - S 87 14' E

MEASURED DEPTH	DRIFT ANGLE	DRIFT DIRECTION	VERTICAL DEPTH	SECTION	LATITUDE FEET	DEPARTURE FEET	DOG LEG/100
0	0 00	S 0 00 E	0.00	0.00	0.00 S	0.00 E	0.00
145	15	S 8 00 E	145.00	.05	.31 S	.04 E	.17
267	45	N 16 00 E	266.99	.82	.36 S	.80 E	.81
369	1 00	N 40 00 E	368.98	1.48	1.01 N	1.53 E	.43
450	1 00	S 81 00 E	449.97	2.73	1.48 N	2.80 E	1.22
510	4 30	S 76 00 E	509.89	5.57	.91 N	5.62 E	5.84
571	6 15	S 77 00 E	570.62	11.19	.42 S	11.18 E	2.87
601	7 30	S 87 00 E	600.40	14.76	.92 S	14.73 E	5.75
633	8 45	S 82 00 E	632.08	19.27	1.35 S	19.23 E	4.48
693	12 15	S 81 00 E	691.07	30.15	2.97 S	30.04 E	5.84
754	14 30	S 81 00 E	750.41	44.18	5.18 S	43.98 E	3.69
816	17 00	S 87 00 E	810.08	60.97	6.94 S	60.71 E	4.81
877	19 00	S 89 30 E	868.09	79.82	7.52 S	79.55 E	3.51
937	20 00	N 89 00 E	924.65	99.82	7.43 S	99.58 E	1.86
999	21 30	S 87 00 E	982.62	121.78	7.81 S	121.54 E	3.33
1031	23 15	S 86 00 E	1012.21	133.96	8.55 S	133.70 E	5.60
1061	24 00	N 89 00 E	1039.70	145.97	8.86 S	145.71 E	7.13
1092	25 15	N 88 30 E	1067.88	158.85	8.58 S	158.62 E	4.09
1122	26 45	N 89 00 E	1094.84	171.97	8.29 S	171.77 E	5.05
1184	28 30	S 86 00 E	1149.77	200.70	9.04 S	200.50 E	4.68
1215	30 15	S 85 30 E	1176.79	215.90	10.17 S	215.66 E	5.70
1337	34 00	S 87 30 E	1280.09	280.76	14.13 S	280.40 E	3.19
1461	38 30	S 87 30 E	1380.06	354.05	17.33 S	353.63 E	3.63
1583	43 15	S 89 00 E	1472.28	433.86	19.77 S	433.41 E	3.98
1707	47 15	S 89 30 E	1559.56	521.85	20.92 S	521.45 E	3.24
1797	51 00	S 89 EAST	1618.45	589.83	21.22 S	589.49 E	4.19
1896	52 45	S 89 EAST	1679.57	667.62	21.22 S	667.37 E	1.77

11/26/82

I. H. E. DIRECTIONAL DRILLING COMPANY

DIST. CARSON
LEASE WILMINGTON
RADIUS OF CURVATURE

XTRA ENERGY CORP.

WELL# 34

ELEV. 58' K.B.

SURVEY BY EASTMAN

TYPE SINGLE SHOT LAMB. COORD. N 4 041 488 E 4 205 567

MAG. DEC. 14 DEGREES WELL COURSE - S 87 14' E

MEASURED DEPTH	DRIFT ANGLE	DRIFT DIRECTION	VERTICAL DEPTH	SECTION	LATITUDE FEET	DEPARTURE FEET	DOG LEG/100
2017	54 00	S 89 30 E	1751.75	764.63	21.64 S	764.48 E	1.09
2109	55 00	S 89 30 E	1805.18	839.47	22.29 S	839.37 E	1.09
2201	53 00	S 89 30 E	1859.25	913.83	22.94 S	913.79 E	2.17
2323	51 00	S 88 30 E	1934.36	1009.92	24.62 S	1009.91 E	1.76
2446	49 45	S 88 30 E	2012.80	1104.63	27.10 S	1104.61 E	1.02
2567	48 15	S 89 30 E	2092.18	1195.90	28.69 S	1195.91 E	1.39
2690	47 00	S 89 30 E	2175.08	1286.69	29.48 S	1286.77 E	1.02
2814	46 00	S 89 30 E	2260.43	1376.56	30.26 S	1376.71 E	.81
2842	45 00	S 88 30 E	2280.06	1396.53	30.61 S	1396.68 E	4.39
2872	45 00	S 87 30 E	2301.27	1417.74	31.35 S	1417.88 E	2.36
2902	45 00	S 86 00 E	2322.49	1438.95	32.55 S	1439.06 E	3.54
3028	45 15	S 85 00 E	2411.39	1528.20	39.56 S	1528.07 E	.60
3151	43 15	S 85 30 E	2499.49	1613.97	46.67 S	1613.60 E	1.65
3272	40 45	S 86 00 E	2589.40	1694.91	52.67 S	1694.34 E	2.08
3395	37 00	S 87 00 E	2685.14	1772.08	57.38 S	1771.38 E	3.09
3518	33 15	S 89 30 E	2785.73	1842.82	59.54 S	1842.10 E	3.26
3540	32 45	S 86 30 E	2804.18	1854.80	59.96 S	1854.07 E	7.77
3571	32.45	S 83 30 E	2830.25	1871.55	61.42 S	1870.77 E	5.24
3602	33 30	S 82 00 E	2856.21	1888.44	63.56 S	1887.57 E	3.58
3701	35 00	S 82 00 E	2938.04	1943.92	71.31 S	1942.74 E	1.52
3825	33 45	S 83 30 E	3040.38	2013.71	80.14 S	2012.19 E	1.22
3947	32 15	S 83 30 E	3142.70	2080.02	87.66 S	2078.21 E	1.23
4070	31 00	S 85 00 E	3247.43	2144.43	94.12 S	2142.38 E	1.20
4163	29 30	S 85 00 E	3327.76	2191.24	98.20 S	2189.05 E	1.61
4313	27 30	S 86 00 E	3459.58	2262.78	103.82 S	2260.40 E	1.37
4440	27 00	S 86 00 E	3572.49	2320.91	107.88 S	2318.41 E	.39

3525

2/11/91

COMPANY: EXTRA
 FIELD: WILMINGTON
 TYPE SURVEY: S/S
 SURVEY CO.: SCIENTIFIC

WELL: WNF 34 A
 DECLINATION: 14
 COMPUTATIONS: R/C
 WELL COURSE: S 86 E

THE DIRECTIONAL DRILLING CO.
 13772 GOLDENWEST # 250
 WESTMINSTER, CA. 92683
 213 424-7043

MEASURED DEPTH	DRIFT ANGLE	DRIFT DIIRECTION	VERTICAL DEPTH	VERTICAL DEPTH	DEPTH	VERTICAL COURSE DEVIATION	NORTH	SOUTH	EAST	WEST	RECTANGULAR COORDINATES			FROM PROPOSE			
											NORTH	SOUTH	EAST	WEST	HI	LO	LI
4431	27.00 S	85.00 E	69.53	3572.49	2320.91	1.87	30.53	107.88	2318.41	0.00	0.00	0.00	0.00				
4516	20.50 S	87.00 E	32.99	3642.02	2351.50	0.51	11.67	109.75	2343.94	0.00	0.00	0.00	0.00				
4551	18.50 S	88.00 E		3675.01	2363.18			110.26	2360.61								

TOTAL

4551 PROJECTED I.D.

WELL IS 2363.19 FEET IN THE DIRECTION OF S 87.33 E FROM SURFACE LOCATION

THIS SURVEY TIES INTO THE ORIGINAL SURVEY DATED 11/26/82
 AT 3572.49' VERTICAL DEPTH.



Report on Operations

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

Long Beach Calif.
June 18, 1991

Your operations at well "WNF-1" 34', API No. 037-22787,
Sec. 20, T. 4S, R. 13W, S.B. B. & M. Wilmington
Field, in Los Angeles County,
were witnessed on 2-9-91, R. Navia, Engineer, representative of
the supervisor, was present from 1230 to 1330.
There were also present B. Dixon, Rig Foreman
Present condition of well: 16" cem 60'; 10-3/4" cem 617'; 7" cem 4448', perf 4433'
WSO; 5" Id 4404'-4560', perf 4449'-4560', milled 4429'-4445'. TD 4571'.
Plugged w/cem 4468'-4390'.

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

DECISION: APPROVED.

DEFICIENCIES: Remote control @ driller's station not connected.

CONTRACTOR: Republic Drilling Co.

RN:ss

cc: Update
Dept. Oil Properties
KDP

M. G. MEFFERD
State Oil and Gas Supervisor
By *T. L. Manuel*
Deputy Supervisor
for R. K. Baker

6/5/91

DIVISION OF OIL AND GAS
BLOWOUT PREVENTION EQUIPMENT MEMO

T 518

Operator Arco Energy Corp Well "WNF-I" 34 Field Wilmington County LA

VISITS: Date 2/9/91 Engineer R. NAVIG Time 1230 to 1330 Operator's Rep. B. DIXON Title RF

2nd _____ to _____

Casing record of well: 16" cen 60'; 10 3/4" cen 617'; 7" cen 4448' pinf 4433' WSO;
5" id 4404' - 4560' pinf 4449 - 4560, milled 4429 - 4445. TD 4571.
Plugged w/cen 4468 - 4390.

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

Proposed Well Opns: Redrill MPSP: _____ psi
 Hole size: _____ " fr. _____ ' 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				
7	23#	K-55	4448										
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.
A	-	Hydril	GK	10	3000	—						2/9	1000
Rd	3 1/2	Shaffer	B	"	"	—						"	1000
Rd	CSO	"	B	"	"	—						2/9	1000
<i>Report by B. Dixon</i>													
ACTUATING SYSTEM							AUXILIARY EQUIPMENT						
Accum. Unit(s) Wkg. Press. <u>3000</u> psi													
Total Rated Pump Output _____ gpm													
Distance From Well Bore <u>50</u> ft.													
Mfr. Accum. Cap. Precharge							No. Sz. (in.) Rated Press. Connections						
1 <u>Koomag</u> <u>80</u> gal. <u>1000</u> psi							Weld Flan. Thrd.						
2 _____ gal. _____ psi													
CONTROL STATIONS							<input checked="" type="checkbox"/> Fill-Up Line <input checked="" type="checkbox"/> Kill Line <input checked="" type="checkbox"/> Control Valve(s) <input checked="" type="checkbox"/> Check Valve(s) <input checked="" type="checkbox"/> Auxil. Pump Connec. <input checked="" type="checkbox"/> Choke Line <input checked="" type="checkbox"/> Control Valve(s) <input checked="" type="checkbox"/> Pressure Gauge <input checked="" type="checkbox"/> Adjustable Choke(s) <input checked="" type="checkbox"/> Bleed Line <input checked="" type="checkbox"/> Upper Kelly Cock <input checked="" type="checkbox"/> Lower Kelly Cock <input checked="" type="checkbox"/> Standpipe Valve <input checked="" type="checkbox"/> Standpipe Pressure Ga. <input checked="" type="checkbox"/> Pipe Safety Valve <input checked="" type="checkbox"/> Internal Preventer						
<input checked="" type="checkbox"/> Manif. at accum. unit <input type="checkbox"/> Remote at Drlr's. str. Other: _____													
EMERG. BACKUP SYST.													
<input checked="" type="checkbox"/> N2 Cyl No: <u>3</u> Type: <u>1</u> <u>700</u> gal. <u>1</u> gal. <u>2500</u> gal. <u>3</u> <u>1700</u> gal. <u>4</u> gal. <u>5</u> gal. <u>6</u> gal.													
Other: _____													
HOLE FLUID MONITORING EQUIPMENT							REMARKS:						
Calibrated Mud Pit							<u>5 1/2" inner milled for 4429 - 4445</u> <u>2/9/91 905x, Fhg @ 4468, TOC @ 4390'</u> Hole Fluid Type <u>Clay base mud</u> Weight <u>9.9 ppb</u> Storage Pits <u>250 551</u>						
<input checked="" type="checkbox"/> Pit Level Indicator <input checked="" type="checkbox"/> Pump Stroke Counter <input checked="" type="checkbox"/> Pit Level Recorder Flow Sensor Mud Totalizer Calibrated Trip Tank Other: _____													
Alarm													
Class													
Aud. Vis.													
A B C													

DEFICIENCIES NOTED AND CORRECTED:

1) Remote control @ driller's
station not connected.

DEFICIENCIES NOTED AND TO BE CORRECTED:

None

UNCORRECTABLE DEFICIENCIES:

None

CONTRACTOR:

Republic Drilling Co.

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

OG 121

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
<i>BB</i>	<i>11-03-90</i>	<i>11-05-90</i>
	<i>Kg</i>	<i>Kg</i>

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 - 34A~~ "WNF-I" 34, API No. 03722787
(Well designation)
Sec. 20, T. 4S, R. 3W, SB B. & M., Wilmington Field, Los Angeles County.

The present condition of the well is as follows:

- Total depth 4571' MWD
- Complete casing record, including plugs and perforations (present hole)
 - 10-3/4", 40.5#, K-55 csg cmt'd @ 617'
 - 7", 23.0#, K-55 csg cmt'd @ 4448'
 - 5", 18.0#, N-80 blank and perf'd csg landed @ 4560', top @ 4402'
- Present producing zone name Ranger; Zone in which well is to be recompleted Ranger
- Present zone pressure 1600 psi (est.); New zone pressure 1600 psi (est.)
- Last produced 8/87 2.8 3 -0-
(Date) (Oil, B/D) (Water, B/D) (Gas, Mcf/D)
(or)
Last injected _____
(Date) (Water, B/D) (Gas, Mcf/D) (Surface pressure, psig)
- Is this a critical well according to the definition on the reverse side of this form? (Yes) (No)

The proposed work is as follows:

Abandon present producing interval and recomplete well in same zone from shoe of 7" csg. See attached program.

Note: If well is to be redrilled, show proposed new bottom-hole coordinates and true vertical depth.

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

Address PO Box 9 XTRA ENERGY CORPORATION
(Street) (Name of Operator)
LONG BEACH CA 90801-0009
(City) (State) (Zip)
By C. RICHARD CLARK - SR. VICE PRESIDENT
(Name - Printed)
Telephone Number (213) 549-6984
[Signature] 11/02/90
(Name - Signature) (Date)
Type of Organization Corporation
(Corporation, Partnership, Individual, etc.)

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.

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DIVISION OF OIL & GAS
LONG BEACH, CA

XTRA ENERGY CORPORATION

REDRILL PROGRAM

WELL NO. WNF - 34A

REFERENCE POINT: KB, which is 22' above GE.
GE is 36'.

SURFACE LOCATION: Lambert Coordinates
N-4,041,488 --- E-4,205,567

PRESENT BH LOCATION: Lambert Coordinates
N-4,041,376 --- E-4,207,943
112' South and 2,376' East of Surface
Location.

TD: 4,571' MWD.

CASING DETAIL: 10-3/4", 40.5#, K-55 csg cmt'd at
617' in 14-3/4" hole with 389 CF cmt.
7", 23.0#, K-55 csg cmt'd at 4,448'
in 9-7/8" hole with 568 CF cmt.
5", 18.0#, N-80, blank and perf'd csg
equipped with Johnson "pipeless" wire
wrapped screen landed at 4,560', top
of Nelson lead seal adapter at
4,402'.

NOTE: 5" liner landed in 12" hole.
Annulus packed with 20 - 40 M sand.

SUMMARY OF WELL CONDITIONS:

Subject well produced satisfactorily until early October 1986, when a liner failure occurred at the top of the perf'd interval, causing the well to sand up and cease production.

In late October 1986, sand and scale was circ'd out of the liner from the top of the perfs to TD. The well was RTP and immediately sanded up.

In July 1990, the pump shoe was raised from 4378' (71' above the perf'd interval), to approximately 2993' (laid down 94 jts of tbg). RTP. The well sanded up 3 days later.

In August 1990, the rods, pump, and tbg were pulled. Well records indicate that the bottom 9 jts of tbg were buried in fill. Top of fill est at 2723'. Open ended tbg is presently landed at 800'.

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LONG BEACH, CA

PROPOSED WORK:

It is proposed to cut and remove existing 5" liner to shoe of 7" csg, mill out liner to 30' below 7" csg shoe, sidetrack original hole around collapsed liner, and recomplete well from shoe of 7" csg.

PROGRAM:

1. MI. RU Production Hoist. PU saw tooth collar or mule shoe collar and tbg. Clean out to top of 5" liner at 4402' using lease salt water. TIH with tbg and 7" pkr to top of 5" liner. Set pkr and tst csg to 1,000 psi. POH and lay down pkr.
2. RD. MO. Clear location for drilling rig.
3. MI rotary equipment. Install and test BOP equipment.

NOTE: DOG to witness test.

4. PU 6 jts of 2-3/8" tbg (with saw tooth collar on bottom) and 3-1/2" drill pipe and RIH to 4375' MWD (27' above top of line).
5. Fill hole with clay base mud (75 PCF or as required).
6. Clean out 7" csg and 5" liner to bottom of 5" liner.
NOTE: Bottom of 5" liner @ 4560' MWD.
7. TIH with inside cutter for 5", 18# pipe and cut 5" liner @ 4443'.
8. TIH with spear, stop, and jars and recover lead seal adapter and 5" liner.
9. TIH with skirted concave mill and drill collars. Mill 5" liner to 4478' (30' below csg shoe).
10. Open hole to 12" from shoe of 7" csg to 4478' using 12" underreamer.
11. TIH with open-ended 2-3/8" tbg stinger on 3-1/2" drill pipe to 4478'. Plug 12" hole and 7" csg from 4478' to 4300' with 60 CF of API class "G" cmt containing 20% sand. POH.
12. TIH with 6-1/4" BIT and drill out to 4400'. Test 7" csg to 1000 psi. (WSO holes at 4433'.) Drill out to 4453' Change over mud to HEC polymer mud. POH.

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LONG BEACH, CA

13. TIH with mud motor and directional BHA. Sidetrack off cmt plug and drill 6-1/4" hole to 4560' MWD.
14. Open 6-1/4" hole to 12" from 4448' to 4560'.
15. Run 5", 18# blank and slotted liner as directed. Bottom of liner to be at 4560', top at 4380'.
16. Gravel pack 5" x 12" annulus and 5" x 7" annulus with 77 CF 10 - 16 mesh gravel.
17. Set lead seal adapter on top of 5" liner. Change over to lease wtr. POH. Lay down 3-1/2" drill pipe.
18. RD. MO.
19. MI. RU production hoist. PU gas anchor, seating nipple, and TIH with 2-7/8" production tbg. Set bottom of gas anchor @ \pm 4350'.
20. Run rods and pump.
21. RD. MO. RTP.

JWP/JGB/th

C:\XEC/
/redrill.34a/1-3

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DIVISION OF OIL & GAS
LONG BEACH, CA

STATE OF CALIFORNIA
DEPARTMENT OF CONSERVATION
DIVISION OF OIL AND GAS

REPORT ON PROPOSED CHANGE OF WELL DESIGNATION

Long Beach, California

October 17, 1983

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

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

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

OLD	NEW	API	OLD	NEW	API
8	"WNF-I" 8	22620	"American Can" 1	"WNF-I" 12	21433
10	"WNF-I" 10	22611	"	"WNF-I" 15	21644
18	"WNF-I" 18	22853	"	"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	"	"WNF-I" 5	21753
27	"WNF-I" 27	22673	"	"WNF-I" 4	21754
28	"WNF-I" 28	22674	"Sanitation Unit" 1	"WNF-I" 21	21445
29	"WNF-I" 29	22648	<u>Sec. 20-4S-13W</u>		
43	"WNF-I" 43	22682	31	"WNF-I" 31	22767
<u>Sec. 20-4S-13W</u>			36	"WNF-I" 36	22769
42	"WNF-I" 42	22689	33	"WNF-I" 33	22768
44	"WNF-I" 44	22820	37	"WNF-I" 37	22796
			34	"WNF-I" 34	22787
			38	"WNF-I" 38	22752
			35	"WNF-I" 35	22795
			39	"WNF-I" 39	22754

M. G. MEFFERD, State Oil and Gas Supervisor

By

Richard C. Gaede

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

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

Company Xtra Energy Well No. 34
 API No. 037-22787 Sec. 20, T. 45, R. 13W, S.B. B.&M.
 County L.A. Field Wilmington

RECORDS RECEIVED	DATE	
Well Summary (Form OG100)	<u>5/20/83</u>	<u>(2)</u>
History (Form OG103)	<u>5/20/83</u>	<u>(2)</u>
Core Record (Form OG101)		
Directional Survey	<u>5/20/83</u>	<u>(2)</u>
Sidewall Samples		
Other		
Date final records received		
Electric logs:		
<u>Dual end.</u>	<u>5/20/83</u>	<u>(2)</u>
<u>Dual end.</u>	<u>5/20/83</u>	<u>(2)</u>

STATUS	STATUS
Producing - Oil <input checked="" type="checkbox"/>	Water Disposal <input type="checkbox"/>
Idle - Oil <input type="checkbox"/>	Water Flood <input type="checkbox"/>
Abandoned - Oil <input type="checkbox"/>	Steam Flood <input type="checkbox"/>
Drilling - Idle <input type="checkbox"/>	Fire Flood <input type="checkbox"/>
Abandoned - Dry Hole <input type="checkbox"/>	Air Injection <input type="checkbox"/>
Producing - Gas <input type="checkbox"/>	Gas Injection <input type="checkbox"/>
Idle - Gas <input type="checkbox"/>	CO2 Injection <input type="checkbox"/>
Abandoned - Gas <input type="checkbox"/>	LPG Injection <input type="checkbox"/>
Gas-Open to Oil Zone <input type="checkbox"/>	Observation <input type="checkbox"/>
Water Flood Source <input type="checkbox"/>	
DATE <u>12-2-82</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 _____
 - E Well on Prod. Dir. Sur. ✓

- CLERICAL CHECK LIST**
- Location change (F-OGD165) _____
 - Elevation change (F-OGD165) _____
 - Form OGD121 _____
 - Form OG159 (Final Letter) _____
 - Form OGD150b (Release of Bond) _____
 - Duplicate logs to archives _____
 - Notice of Records due (F-OGD170) _____

UPDATE CENTER 6/8/83

RECORDS NOT APPROVED
 Reason: _____

RECORDS APPROVED TS
 RELEASE BOND _____
 Date Eligible _____
 (Use date last needed records were received.)
 MAP AND MAP BOOK 128 6/6/83

CHECK LIST - RECORDS RECEIVED AND WELL STATUS

Well No. _____

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

<u>WORK PERFORMED</u>	<u>STATUS</u>	<u>DATE</u>
Drill _____ Redrill _____ Deepen _____	Producing _____	
Plug _____ Alter Casing _____	Recompleted Producing _____	
Water Flood _____ Water Disposal _____	Water Flood _____	
Abandon _____	Water Disposal _____	
Other _____	Abandoned _____	
	Other _____	

MAP AND BOOK _____ Engineer _____

RECORDS FILED AND DATE Clerk _____

Summary _____

Log and Core _____

History _____

E-log _____

Directional Survey _____

Other _____

RECORDS & REQUIREMENTS CHECKED Engineer _____

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

Location _____ Notice states _____

Surface Inspection _____

Data Needed _____

Request Records _____ OGD170 _____

Correct records _____ OGD165 _____

(Specify)

Elevation _____ Notice states _____

CARDS _____

BOND _____

Hold _____ Reason _____

Release _____ Date Eligible _____ OGD150 _____

End premium year _____

Release requested _____

Bond superseded _____ (Check One)

Well abandoned _____

Production Reports _____

Environmental Inspection _____ Engineer _____

FINAL LETTER _____ OGD159 _____

and _____

File cleared _____ OGD121 _____

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

WELL SUMMARY REPORT

Operator Xtra Energy Corp.		Well 34				
Field Wilmington		County Los Angeles	Sec. 20	T. 4S	R. 13W	B.&M. S.B.
Location (Give surface location from property or section corner, street center line and/or California coordinates) 171' North & 992' East of the southwest corner of the property, which is the Northeast corner of the intersection of Main St. & the AT & SF right-of-way.					Elevation of ground above sea level 36'	
Commenced drilling (date) 11/16/82	Total depth			Depth measurements taken from top of:		
Completed drilling (date) 12/2/82	(1st hole) 4571'	(2nd)	(3rd)	<input type="checkbox"/> Derrick Floor <input type="checkbox"/> Rotary Table <input checked="" type="checkbox"/> Kelly Bushing		
Commenced producing (date)	Present effective depth 4560'			Which is 22 feet above ground		
<input type="checkbox"/> Flowing <input checked="" type="checkbox"/> Pumping <input type="checkbox"/> Gas lift	Junk None			GEOLOGICAL MARKERS		
Name of producing zone(s) Ranger				DEPTH		
			"F"		4443'	
			"M"		4483'	
			"H"		4553'	
			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						
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	617'	40.5 #	K-55	New	14 3/4"	389 CF	
7"	Surf	4448'	23#	K-55	New	9 7/8"	568 CF	
5"	4404'	4560'	18#	N-80	New			

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

5" - 18# 1nr with top at 4404', shoe at 4560', 5" Johnson stainless steel "pipeless" wirewrapped screen with 0.012" slots. See liner detail.

Was the well directionally drilled? If yes, show coordinates at total depth

Yes No 112' South & 2,376' East

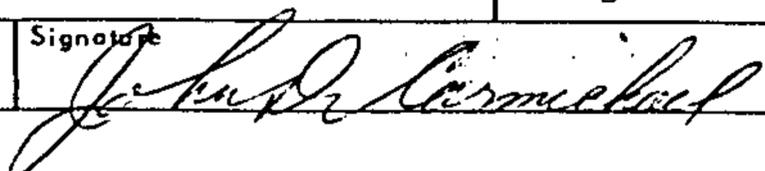
Electrical log depths

4569' to 619'

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 John D. Carmichael		Title Senior Vice President	
Address 2501 Cherry Ave. Suite 270		City Signal Hill, CA	Zip Code 90806
Telephone Number (213) 424-8549	Signature 	Date April 12, 1983	

SUBMIT IN DUPLICATE.

RECEIVED
MAY 2 4 32 PM '83
U.S. POST OFFICE
LONG BEACH, CA.

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..... 34....., Sec. 20....., T. 4S....., R. 13W....., S.B.B. & M.
 A.P.I. No..... 037-22787..... Name..... John D. Carmichael..... Title..... Senior Vice President
 Date..... December 2....., 1982..... (Person submitting report) (President, Secretary or Agent)

Signature *John D. Carmichael*

717 Walton Street, 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 | |
|-------|--|
| 11-16 | MI fr Well No. 36, RU, now drlg rat hole. |
| 11-17 | Spud in @ 10:00 A.M., drld 14-3/4" hole to 450', RT for dynadril, drld 9-7/8" hole fr 450' to 640', RT for 14-3/4" hole opnr, now opng hole @ 6 A.M. CB mud wt 70#/CF, WL 7.4 cc, vis 50", solids 11.0%, sand 2.0%, cake 2/32", 700 ppm Cl, oil 4.0%. |
| 11-18 | Opn 9-7/8" hole to 14-3/4" fr 450' to 640', wipe hole to surf, circ cln, POH, H & H ran 16 jts of 10-3/4", 40.5#, J-55 csg to 617', Dowell pmpd 180 sx "G" cmt mxd 1:1:4 plus 60 sx "G" cmt neat, all cmt mxd w/2% CaCl ₂ , had 50 CF cmt rtns, CIP @ 4:10 P.M. WOC 4 hrs, cut off 28.39' of 10-3/4" csg, weld on csg head, now N/U BOP @ 6 A.M. SS @ 601', 7° 30', S 87° E, hole is 7' hi & 1/2' rt. CB mud wt 71#/CF, WL 8.0 cc, vis 52", solids 10.0%, sand 1.5%, cake 2/32", 5000 ppm Cl, oil 7.0%. |
| 11-19 | Fin N/U BOP, RIH w/drlg assy, tstd BOP & surf csg w/1000 psi, OK by DOG, C/O shoe & cmt to 640', POH, RIH w/Dynadril, drld & surveyed 9-7/8" hole fr 640' to 1154', POH, left bit, bit sub & 4' of Dynadrill in hole, RIH w/9-5/8" OS @ 6 A.M. SS @ 1091', 26°, S 84° E, hole is 19' hi & 3' rt. CB mud wt 72#/CF, WL 5.0 cc, vis 44", solids 8.5%, sand 0.75%, cake 1/32", 2700 ppm Cl, oil 10.0%. |
| 11-20 | Unable to go below 680' w/9-5/8" OS, POH, RIH w/9-7/8" bit, reamed to 1143', POH, RIH w/9-3/8" OS, unable to wrk over fish @ 1148', POH, RIH w/OE DP, Dowell set 75 sx class "G" cmt plg mxd w/ 2% CaCl ₂ & 0.75% of TIC densifier, ran 100 CF wtr ahead mxd w/CW-7, plg fr 1148' to 986', CIP @ 7:40 P.M. P/U to 857, circ cln, POH, now WOC @ 6 A.M. CB mud wt 72#/CF, WL 5.0 cc |
| 11-21 | WOC until 6:30 A.M. C/O cmt to 1041', C & C mud, RT for Dynadril, drld & surveyed 9-7/8" hole fr 1041' to 1260', RT for angle bldg assy, reamed Dynadril run fr 1030' to 1260', drld & surveyed 9-7/8" hole to 1797', now RT for locked in assy @ 6 A.M. SS @ 1797', 51°, N 90° E, hole is 2' lo & 7.5' left. CB mud wt 72#/CF, WL 5.0 cc, vis 45", solids 9.0%, sand 0.75%, cake 1/32", 2850 ppm Cl, oil 8.0%. |
| 11-22 | Fin RIH w/9-7/8" locked in assy, drld & surveyed 9-7/8" hole fr 1797' to 2109', RTC near bit stab, drld & surveyed to 2845', RT for Dynadril, drld to 2855' @ 6 A.M. SS @ 2814' 46° S 89° 30'E, hole is 12' hi & 36.5' left. CB mud wt 75#/CF, WL 5.0 cc, vis 46", solids 12.0%, sand 0.75%, cake 1/32", 2400 ppm Cl, oil 7.0%. |

- 11-23 Cont'd Dynadrlg & surveying fr 2855' to 2951', RT for angle dropping assy, reamed Dynadril run, drlg & surveying fr 2951' to 3425' @ 6 A.M. SS @ 3395', 37°, S 87° E, hole is 0' lo & 29' left. CB mud wt 75#/CF, WL 4.8 cc, vis 46", solids 12.0%, sand 0.75%, cake 1/32", 2200 ppm Cl, oil 10%.
- 11-24 Cont'd Dynadrlg & surveying 9-7/8" hole fr 3425' to 3527', circ cln, RT for Dynadril, Dynadrld to 3647', circ cln, RT for angle dropping assy, drlg & surveying fr 3647' to 3670' @ 6 A.M. SS @ 3602', 33° 30', S 83° E, hole is 15' lo & 28' left. CB mud wt 74#/CF, WL 4.8 cc, vis 48", solids 11.0%, sand 0.75%, cake 1/32", 2200 ppm Cl, oil 9.0%.
- 11-25 Cont'd Dynadrlg & surveying 9-7/8" hole fr 3670' to 4163', C & C mud, RTCB, cont'd drlg to 4270' @ 6 A.M. SS @ 4163', 29° 30', S 85° E, hole is 12' lo & 9' left. CB mud wt 75#/CF, WL 4.8 cc, vis 48", solids 12.0%, sand 0.75%, cake 1/32", 2080 ppm Cl, oil 8.0%.
- 11-26 Cont'd Dynadrlg & surveying 9-7/8" hole fr 4270' to 4571', C & C mud, MOH, fnd 10' error, RIH, fnd btm @ 4571', no fill, C & C mud, POH, Sch RU @ 9 P.M., ran IES log fr 4569' to 617', RIH to 4571', C & C mud for 7" csg, now POH. LD 4-1/2" DP, SS @ 4537', 26°, S 86° E, hole is 1' hi & 3.5' left. CB mud wt 76#/CF, WL 4.8 cc, vis 48", solids 8.0%, sand 0.75%, cake 1/32", 2000 ppm Cl, oil 8.0%.
- 11-27 Fin LD 4-1/2" DP, H & H Tong Serv RU & ran 129 jts 7", 23#, K-55 Buttress csg, shoe @ 4448', FC @ 4377', Dowell pmpd 80 CF mud sweep, followed by 265 sx "G" cmt mxd 1:1:4, followed by 85 sx "G" cmt neat, total slurry 651 CF, dsplsd w/176.5 bbls drlg mud, bmpd plg w/1500 psi, no bleed back, rmvd BOP, set slips on 7" csg, weld on 7" well head, N/U BOP, now P/U 3-1/2" DP @ 6 A.M. NOTE: Cut off 35.00' of 7" csg. CB mud wt 75#/CF, WL 5.0 cc, vis 46", solids 12.0%, sand 0.75%, cake 1/32", 2000 ppm Cl, oil 8.0%.
- 11-28 Fin P/U 3-1/2" DP, tst csg to 1000#, OK, D/O FC @ 4377', C/O cmt to 4436', circ cln, POH, RIH w/Lynes WSO tool, attempt to perf 4 1/2" holes @ 4433', gun misfired, POH, WO Lynes tools for 2-1/2 hrs, RIH w/ Lynes WSO tools, perf'd 4 1/2" holes @ 4433', set pkr @ 4382', tst for 1 hr, now POH @ 6 A.M. CB mud wt 75#/CF, WL 5.0 cc, vis 45", solids 12.0%, sand 0.75%, cake 1/32", 2000 ppm Cl, oil 8.0%.
- 11-29 Fin POH w/Lynes WSO tools, tst wet, disapproved by DOG, RIH w/Bkr full bore pkr, set @ 4383', unable to brk dn form w/3000#, no bleed off in 20 min, P/U & reset pkr @ 4183', unable to brk dn form w/3000#, rlse pkr, POH, rlse B-J cmtrs, DOG approved retest of same holes, RIH w/Johnston tstr, set @ 4382', tst dry for 1 hr, POH, DOG approved WSO, RIH w/6-1/4" bit, C/O cmt & shoe, C/O to 4555', chng over to Polymer mud, POH, RIH w/ King hole opnr @ 6 A.M. Polymer mud wt 72#/CF, WL 10.5 cc, vis 37", solids 1.8%, sand - trace, cake - film, 115,000 ppm Cl, oil - trace.
- 11-30 Fin RIH w/hole opnr, opnd 9-7/8" hole to 12" fr 4448' to 4560', Regauge hole, OK, C & C mud, Sch ran Caliper, started RIH w/5" screen lnr, lnr hanging up @ 2036', POH, fnd top 2 centralizers brkn, cont'd POH checking lnr @ 6 A.M. Polymer mud wt 73#/CF, WL 10.5 cc, vis 38", solids 2.0%, sand - tr, cake - film, 122,000 ppm Cl, oil - tr.

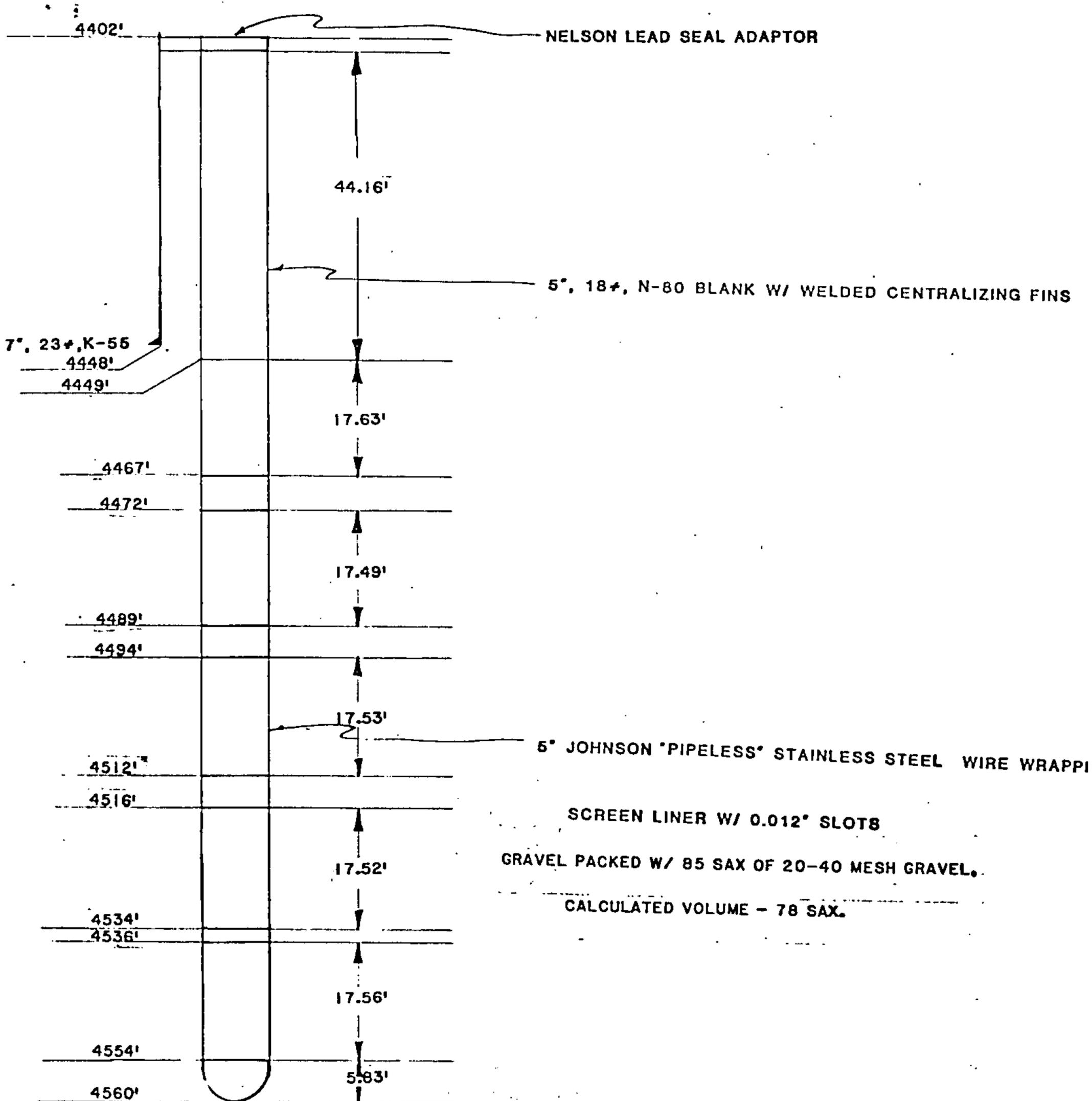
12-1-82 Fin POH w/lnr, replaced 3 brkn centralizers, WO hi winds to subside, RIH w/6-1/4" bit & csg scrpr to 4570', no drag, circ cln, POH, RIH w/J B Nelson lnr tools & 112' of 5" screen lnr, top of lnr @ 4404', shoe @ 4560', gvl pkd lnr w/85 CF 20-40 mesh gvl, Calc vol 78 CF, final press 800 psi, POH w/lnr tools, now RIH w/lead seal @ 6 A.M. Polymer mud wt 72#/CF, WL 9.6 cc, vis 35", solids 1.8%, sand - trace, cake - film, 121,000 ppm Cl, oil - trace.

12-2 Fin RIH w/lead seal adaptor, set @ 4402', chng over fr Polymer mud to lease SW, POH & LD 3-1/2" DP, Rmvd BOP, F/U well head, RR @ 4 P.M., lwrd mast, prep to move rig @ daylight to well # 33.

RECEIVED
MAY 20 4 32 PM '93
FIRE DEPARTMENT
LONG BEACH, CA

LINER DETAIL

WNF-1 #34



DR. ... AND GAS
LONG BEACH, CA.

MAY 20 4 39 PM '83

RECEIVED

DIVISION OF OIL AND GAS

Report on Operations

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

Long Beach Calif.
December 3, 1982

Your operations at well 34, API No. 037-22787,
Sec. 20, T. 4S, R. 13W, S.B.B. & M. Wilmington Field, in Los Angeles County,
were witnessed on 11-28-82. S. Mulqueen, Engineer, representative of
the supervisor, was present from 2000 to 2130. There were also present R. Napier,
Drilling Foreman.

Present condition of well: 16" cem 60'; 10-3/4" cem 617'; 7" cem 4465', perf 4433' WSO,
TD 4571' (Drilling).

The operations were performed for the purpose of Testing the 7" shut-off at 4433' with a
formation tester.

DECISION: APPROVED.

NOTE: DEFICIENCIES TO BE CORRECTED
NONE

DEFICIENCIES CORRECTED
1. Wet WSO from November 28, 1982 at 0630.

CONTRACTOR: Cal Pacific Drilling Company, Inc.

SM: dh

cc: Update

Blanket Bond

M. G. MEFFERD

State Oil and Gas Supervisor

By

[Signature]
Deputy Supervisor

J. L. HARDOIN

Operator XTRA ENERGY CORP.

Well designation 34 Sec. 20, T. 45, R. 13W, SB B.&M.

Field WILMINGTON, County LOS ANGELES was tested for water shutoff on 11-28-82. (Name) S. MULQUEEN, representative of the supervisor, was present from 2000 to 2130. Also present were ROY NAPIER, D.F.

Casing record of well: 16" CEM 60'; 10 3/4" CEM 617'; 7" CEM 4465'; PERF 4433'
WSO. TD 4571' (DRILLING).

The operations were performed for the purpose of (D-1) 7" @ 4433'

- The 7 " shutoff at 4433 ' 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: 1 4/4 " fr. 60 ' to 640 ' ; 9/8 " to 4571 ' ; & _____ " 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#	0 4465'	11-26	FLAT COLLAR @ 4377'	651 cf	1800'±	4377'	—	1500#	—

ATTEMPTED TO SQUEEZE THE WSO HOLES @ 4433'. PRESSURED UP TO 3000# WITH NO BREAK DOWN. PULLED OUT & TESTED ORIGINAL WSO HOLES.

Depth or interval tested 4433' FOUR 3/8" HOLES
The hole was open to 4436 ' for test.

FORMATION TEST:

Packer(s) 4383 ' & _____ ' Tail 4407 ' Bean size 3/4 " Cushion: _____
IHP 1910 IFP 49 FFP 49 FHP 1898
Blow MED. - LIGHT BLOW 5 MIN., DEAD FOR REMAINDER OF TEST
Open for test 1 Hr. _____ min. Fluid entry 10' DRILLING MUD (10.0 #/g)

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 _____ ')

DEFICIENCIES—TO BE CORRECTED
NONE

DEFICIENCIES—CORRECTED
1) *WET WSO FROM 11-28-82 @ 0630*

CONTRACTOR

CAL PACIFIC DRILLING COMPANY, INC.

DIVISION OF OIL AND GAS

Report on Operations

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

Long Beach Calif.
December 3, 1982

Your operations at well 34, API No. 037-22787,
Sec. 20, T. 4S, R. 13W S.B. B. & M. Wilmington Field, in Los Angeles County,
were witnessed on 11-18-82. S. Mulqueen, Engineer, representative of
the supervisor, was present from 1100 to 1200. There were also present D. Lilly,
Drilling Foreman.

Present condition of well: 16" cem 60'; 10-3/4" cem 617'. TD 640'(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
NONE

CONTRACTOR: Cal Pacific Drilling Company, Inc.

SM: dh

cc: Update

Blanket Bond

M. G. MEFFERD

State Oil and Gas Supervisor

By

[Handwritten Signature]

Deputy Supervisor

J. L. HARDOIN

DIVISION OF OIL AND GAS
BLOWOUT PREVENTION EQUIPMENT MEMO

12-2-82

T 182-997

Operator XTRA ENERGY CORP. Well 34 Field WILMINGTON County LOS ANGELES

VISITS: Date Engineer Time Operator's Rep. Title
 1st 11-18-82 S. MULQUEEN 1100 to 1200 DAN LILLY D.F.
 2nd _____ to _____ _____

Casing record of well: 16" CEM 60'; 10 3/4" CEM 617' TD 640' (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. 60' to 640', _____ " to _____ " & _____ " to _____ "

REQUIRED
BOPE CLASS: III B 2M

CASING RECORD (BOPE ANCHOR STRING ONLY)					Cement Details		Top of Cement	
Size	Weight(s)	Grade (s)	Shoe at	CP at	STAB-IN SHOE @	CEM W/	Casing	Annulus
10 3/4"	40.5 #	J-55	617'	—	240 SX	11-17-82	615'	SURFACE

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.
A	13 3/8	SHAFCO	GK	13 3/8"	3000	—						11-18	1000
Rd	4 1/2	SHAFCO	B	13 3/8"	3000	—						11-18	1000
Rd	CSO	"	"	"	"	—						11-18	1000
REPORTED BY DAN LILLY													

ACTUATING SYSTEM			
Accum. Unit(s)	Wkg. Press.	<u>3000 psi</u>	
Total Rated Pump Output	_____ gpm		
Distance From Well Bore	<u>80 ft.</u>		
Mfr.	Accum. Cap.	Precharge	
1 <u>ROOMEY</u>	<u>90 gal.</u>	<u>1000 psi</u>	
2 _____	_____ 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.			
Other: <u>(PNEUMATIC)</u>			
EMERG. BACKUP SYST.		Press.	Wkg. Fl.
<input checked="" type="checkbox"/> N2 Cyl	No: <u>2</u>	Tpe: <u>J</u>	<u>12400 8.4 gal</u>
Other:		<u>22400</u>	<u>8.4 gal</u>
		<u>3</u>	<u>gal</u>
		<u>4</u>	<u>gal</u>
		<u>5</u>	<u>gal</u>
		<u>6</u>	<u>gal</u>

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>2000</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<u>1000</u>
<input checked="" type="checkbox"/> Control Valve(s)	<u>3</u>		<u>2000</u>	<input checked="" type="checkbox"/>		<u>1000</u>
<input checked="" type="checkbox"/> Check Valve(s)	<u>1</u>		<u>2000</u>	<input checked="" type="checkbox"/>		<u>1000</u>
<input checked="" type="checkbox"/> Auxil. Pump Connec.			<u>2000</u>			<u>1000</u>
<input checked="" type="checkbox"/> Choke Line		<u>3</u>	<u>2000</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<u>1000</u>
<input checked="" type="checkbox"/> Control Valve(s)	<u>8</u>		<u>3000</u>	<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>3</u>	<u>3000</u>			<u>1000</u>
<input checked="" type="checkbox"/> Bleed Line		<u>2</u>				<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/> Upper Kelly Cock						—
<input checked="" type="checkbox"/> Lower Kelly Cock						—
<input checked="" type="checkbox"/> Standpipe Valve						<u>1000</u>
<input checked="" type="checkbox"/> Standpipe Pressure Ga.						
<input checked="" type="checkbox"/> Pipe Safety Valve		<u>4 1/2</u>	<u>3000</u>			<u>1000</u>
<input checked="" type="checkbox"/> Internal Preventer		<u>4 1/2</u>	<u>3000</u>			—

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

REMARKS: ASKED DAN LILLY ABOUT PROCEDURES DURING A KICK. 1. CLOSE PIPE RAMS 2. SHUT-IN CHOKE MANIFOLD 3. PUT ON PIPE SAFETY VALVE IN OPEN POSITION. 4. CLOSE P.S.V. 5. PUT ON INTERNAL PREVENT. 6. OPEN P.S.V. 7. TRIP IN HOLE

Hole Fluid Type	Weight	Storage-Pits
<u>CLAY BASE</u>	<u>9.5# / gal</u>	<u>500 BBL</u>

DEFICIENCIES--TO BE CORRECTED
NONE

DEFICIENCIES--CORRECTED
NONE

CONTRACTOR
CAL PACIFIC DRILLING COMPANY, INC.

Operator XTRA ENERGY CORP.

Well designation 34 Sec. 20, T. 4S, R. 13W, SB B.&M.

Field WILMINGTON, County LOS ANGELES was tested for water shutoff on 11-28-82. (Name) S. MULQUEEN, representative of the supervisor, was present from 0630 to 0730. Also present were ROY NAPIER, D.F.

Casing record of well: 16" CEM 60'; 10 3/4" CEM 617'; 7" CEM 4465', PERF 4433' WSO. TD 4571' (DRILLING).

The operations were performed for the purpose of (D-1) 7" @ 4433'

- The 7 " shutoff at 4433' 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: 1 1/4 " fr. 60 ' to 640 ' ; 9/8 " to 4571 ' ; & _____ " 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#	0	4465'	11/26	FOAT COLLAR @ 4377'	657 cf	1800'±	4377'	-	1500#	-

CLEANED OUT TO 4436'

Depth or interval tested 4433' FOUR 3/8" HOLES
The hole was open to 4436' for test.

FORMATION TEST:

Packer(s) 4382' & _____ Tail 4411' Bean size 3/4 " Cushion _____
IHP 1899 IFP 48 FFP 131 FHP 1924

Blow MED. BLOW THROUGH OUT TEST
Open for test _____ Hr. _____ min. Fluid entry 200' DRILLING MUD (10.0#19)

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 _____ ')

DEFICIENCIES—TO BE CORRECTED
WET WSO

DEFICIENCIES—CORRECTED
WET WSO

CONTRACTOR
CAL PACIFIC DRILLING COMPANY, INC.

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. S.C.H. NO. <input type="checkbox"/>	E.I.R. S.C.H. NO. <input type="checkbox"/>	DOCUMENT NOT REQUIRED BY LOCAL JURISDICTION <input type="checkbox"/>
See Reverse Side			

FOR DIVISION USE ONLY					
MAP	MAP BOOK	CARDS	BOND	FORMS	
28	115-82	115-82 CP	Blanket	114 CP	121 CP

In compliance with Section 3203, Division 3, Public Resources Code, notice is hereby given that it is our intention to commence drilling well No. 34, API No. 037-22787 (Assigned by Division)
 Sec. 20, T. 4S, R. 13W, S.B. B. & M., Wilmington Field, Los Angeles County.
 Legal description of mineral-right lease, consisting of _____ acres, is as follows: _____ (Attach map or plat to scale)
Map Previously Submitted

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

Location of well 171 feet North along section/property line and 992 feet East
 (Direction) (Cross out one) (Direction)
 at right angles to said line from the Southwest corner of ~~section~~ property which is ~~at~~
 (Cross out one)
THE NORTHEAST CORNER OF MAIN STREET & THE A.T. & S.F. 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:
113 feet NORTH and 2328 feet EAST
 (Direction) (Direction)

Elevation of ground above sea level 36 feet.

All depth measurements taken from top of KELLY BUSHINGS that is 22 feet above ground.
 (Derrick Floor, Rotary Table, or Kelly Bushing)

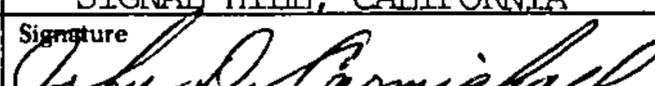
PROPOSED CASING PROGRAM

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'	600'	600'
7"	23	K-55	SURF	4465'	4465'	2061'
5"	18#	N-80	4395'	4600'	GRAVEL PACKED WIRE WRAPPED SCREEN WITH 0.012" SLOTS.	

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

Intended zone(s) of completion RANGER, - 3530', 1200 psi Estimated total depth 4600'
 (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, CALIFORNIA</u>	Zip Code <u>90806</u>	
Telephone Number <u>(213) 424-8549</u>	Name of Person Filing Notice <u>JOHN D. CARMICHAEL</u>	Signature 	Date <u>10-29-82</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 <input type="checkbox"/> No <input type="checkbox"/>
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
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XTRA ENERGY CORPORATION

PROGRAM FOR DRILLING

WELL No. 34

Reference Point: KB which is 22' above G. E.
Surface Location: Lambert Coordinates N-4,041,488 E-4,205,567
Bottom Hole Location: Lambert Coordinates N-4,041,375 E-4,207,895
Elevation: 36' GE + 22' KB = 58'

Proposed Casing Program:

10-3/4" 40.5 # to be cemented at 600'
7 " 23 # to be cemented at 4465'
5 " 18 # to be hung at 4600', top @ 4395'.

Perfs: 4475' to 4595' Wire wrapped pipeless Johnson Screen liner with 0.012" slots.

Proposed Hole Size:

Surf' to 600' 14-3/4" hole
600' to 4600' 9-7/8" hole
4465' to 4600' 9-7/8" hole to be underreamed to 12".

Proposed Total Depth: 4600'

Directional Program

Deflect hole at 450' and increase inclination at 4°/100' in a S 87° E direction to 50° at 1700' (T.V.D. - 1547'). Maintain 50° inclination to a depth of 2715'. Drop angle at 1.5°/100' to a total depth of 4600'. Target is a 100' diameter circle with its center 113' South and 2328' East of the surface site. A total displacement of 2331'.

Mud Program

1. For drilling from surface to 600', use a safe fresh water clay base mud.
2. For drilling from 600' to 4575', 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 12%

Well No. 34

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214
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24

3. For underreaming 9-7/8" 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#, J-55 casing to 600'. Casing to be fitted with Baker stab-in shoe and centralizers on 1st, 2nd and 3rd joints. Cement 10-3/4" casing with 250 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% CaCl₂.
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 4600'.
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 4465'. Casing to be fitted with Basket Shoe and Baker float 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 265 sacks of class G cement mixed 1:1:4 (cement:perlite:gel) mixed with 2% CaCl₂, followed by 85 sacks of G cement, neat. Cement to reach 2000' TVD. Land Casing.

LCM
DIV. 4
NOV 4 1 20 PM '82
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9. After 24 hours, clean out cement to 4455' (+ 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 4465' and clean out to 4600'.
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 + 80 CF of 20 - 40 mesh gravel.
15. Displace Polymer mud in hole with salt water and close in.
16. Move out rotary equipment.

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