

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

OCD Artesia

FORM APPROVED
OMB NO. 1004-0135
Expires: July 31, 2010**SUNDRY NOTICES AND REPORTS ON WELLS**
*Do not use this form for proposals to drill or to re-enter an abandoned well. Use form 3160-3 (APD) for such proposals.***RECEIVED**JAN 02 2013
NMOCD ARTESIA**SUBMIT IN TRIPLICATE - Other instructions on reverse side.**

1. Type of Well ☐ Oil Well ☒ Gas Well ☐ Other		5. Lease Serial No. NMNM0417696
2. Name of Operator OXY USA INCORPORATED Contact: JENNIFER A DUARTE E-Mail: JENNIFER_DUARTE@OXY.COM		6. If Indian, Allottee or Tribe Name
3a. Address 5 GREENWAY PLAZA STE 110 HOUSTON, TX 77046-0521	3b. Phone No. (include area code) Ph: 713-513-6640	7. If Unit or CA/Agreement, Name and/or No.
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) Sec 4 T22S R31E SWNE 1774FNL 1480FEL		8. Well Name and No. LOST TANK 4 FEDERAL 22
		9. API Well No. 30-015-40774-00-X1
		10. Field and Pool, or Exploratory LOST TANK
		11. County or Parish, and State EDDY COUNTY, NM

12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
☒ Notice of Intent	☐ Acidize	☐ Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off
☐ Subsequent Report	☐ Alter Casing	☐ Fracture Treat	☐ Reclamation	☐ Well Integrity
☐ Final Abandonment Notice	☐ Casing Repair	☐ New Construction	☐ Recomplete	☒ Other
	☐ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	Change to Original A
	☐ Convert to Injection	☐ Plug Back	☐ Water Disposal	PD

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

Well diagram with formation tops attached.

After drilling 8-3/4 hole to 9987 ft it was decided to pull out of the hole to pick up a fresh downhole motor and bit. While tripping back in the hole the drillstring became stuck at 7523 ft. It was not possible to neither move nor circulate. After unsuccessfully attempting to free the string a free point logging tool was run, pipe was 100% free at 4570 ft. Ran in with wireline conveyed perforating guns and punched holes in the DP @ 4713 (second attempt). Established circulation and ran a free point logging tool again; pipe 100% free at 4835 ft. successfully backed-off at 4823 ft and pulled out of the hole. Ran in the hole a fishing assembly with jars and accelerator and unsuccessfully attempted to work the pipe free for approximately 12 hours. Attempted to establish an injection rate increasing standpipe pressure up to 4000 ft. No injection was achieved.

Currently running in with wireline perforating guns to punch holes in the DP as deep as possible.

SEE ATTACHED FOR
CONDITIONS OF APPROVAL
Accepted for record
NMOCD
1/13/2013

14. I hereby certify that the foregoing is true and correct. Electronic Submission #172307 verified by the BLM Well Information System For OXY USA INCORPORATED, sent to the Carlsbad Committed to AFMSS for processing by WESLEY INGRAM on 12/28/2012 (13WWI0184SE)	
Name (Printed/Typed) JENNIFER A DUARTE	Title REGULATORY ANALYST
Signature (Electronic Submission)	Date 12/28/2012

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By WESLEY INGRAM	Title PETROLEUM ENGINEER	Date 12/28/2012
Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.		
Office Carlsbad		

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

**** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ****

Additional data for EC transaction #172307 that would not fit on the form

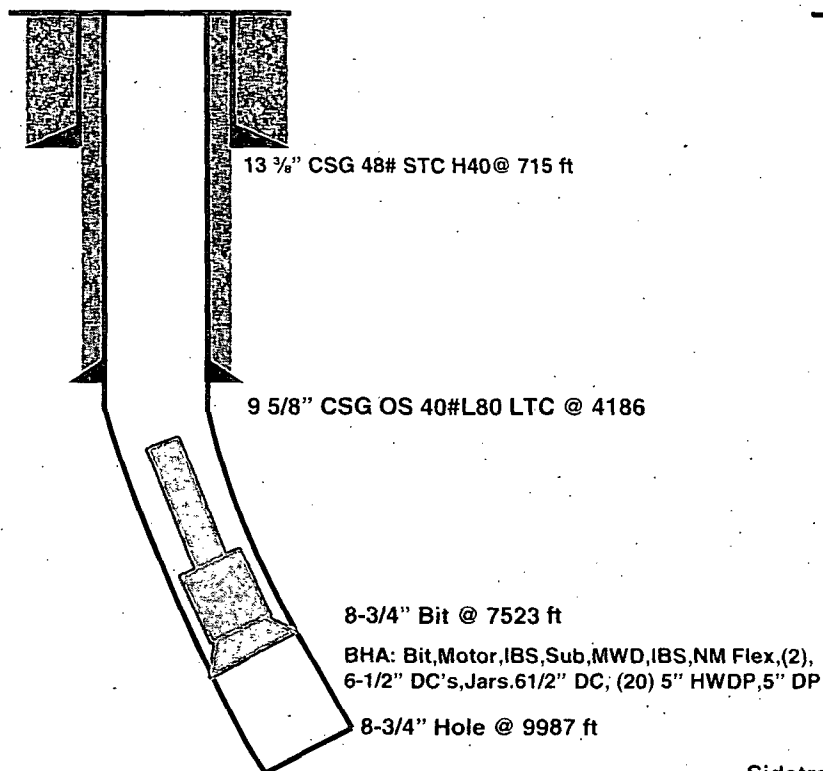
32. Additional remarks, continued

After establishing an injecting rate the plan is to set a 500 ft cement plug (final cement recipe being prepared by service company) from approximately 7450 ft to 6950 ft. Afterwards we would back-off at about 4800 ft to set a 500 ft abandonment/kick-off plug (cementing program attached). Finally, after a minimum of 24 hr WOC, a directional bottom hole assembly will be run in the hole to sidetrack the well. Directional plan, attached, has an estimated KOP of 4400 ft, 100 ft below the calculated TOC of the cement plug. The directional plan maintains the same BHL of the original drilling plan.

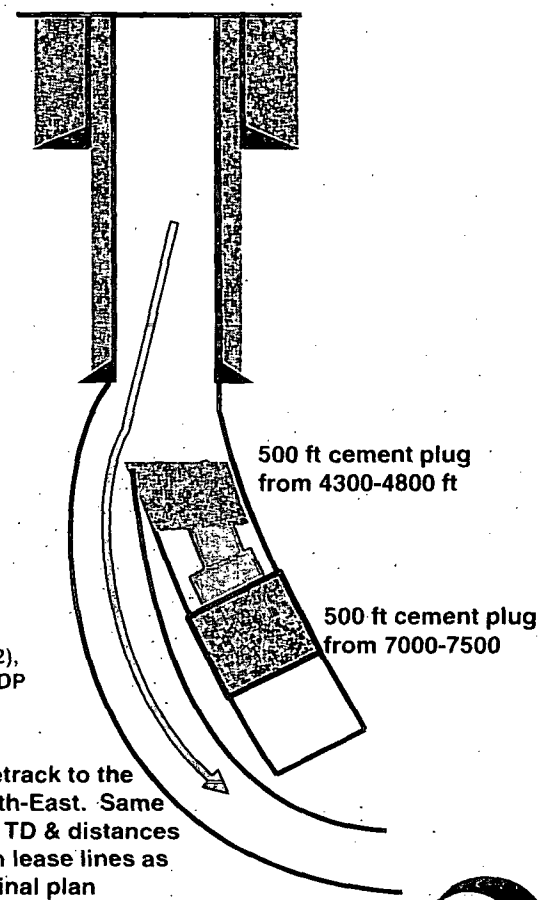
Lost Tank 4 Fed #22

Formation Name	TVD
Rustler	663
Salado (top of Salt)	750
BOS	4157
Lamar	4163
Bell Canyon	4215
Cherry Canyon	5143
Brushy Canyon	6372
Bone Spring	8032
Wolfcamp	11213
TD	12325

CURRENT SITUATION



PLAN



HALLIBURTON

**Oxy USA Wtp Lp - Ebusiness
5 Greenway Plaza, Suite 110
Houston, Texas 77046**

Lost Tank 4 Federal 22

Eddy County, New Mexico
United States of America

Cementing Cost Estimate

Prepared for: Sebastian Millan
Mobile Number: (832) 528 - 3268
Email Address: Sebastian_Millan@oxy.com

December 26th, 2012
Version: 1

Submitted by:
Mauricio Sevilla
Halliburton
5 Greenway Plaza
Houston, Texas 77046
713-366-5966

HALLIBURTON

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*Halliburton appreciates the opportunity to present
this cost estimate and looks forward to being of service to you.*

Foreword

Halliburton Energy Services is pleased to have this opportunity to present this proposal for your consideration. We earnestly request the service work to be performed on this well.

24/7 Hobbs Coordinators: 575-492-5920

We look forward to working with you to provide the very best quality services available in the Permian Basin.

Submitted by:

Mauricio Sevilla
Account Rep-OXY
713-366-5966 office
713-578-0764 cellular

Technical Discussion

Cementing Best Practices

1. **Cement quality and weight:** You must choose cement slurry that is designed to solve the problems specific to each string of pipe.
2. **Waiting time:** You must hold the cement slurry in place and under pressure until it hardens. Cement slurry is a time-dependent liquid and must be allowed to undergo a hydration reaction to produce a competent cement sheath. Fresh cement slurry can be worked (thickening or pump time) as long as it is plastic, and the initial set of cement occurs during the rapid reaction stage. If the cement is not allowed to hydrate; it will be subject to changes in density, dilution, settling, water separation, and gas cutting that can lead to lack of zonal isolation with resultant bridging in the annulus.
3. **Pipe movement:** Pipe movement may be one of the single most influential factors in mud removal. Reciprocation and/or rotation mechanically breaks up gelled mud and constantly changes the flow patterns in the annulus for better cement bonding.
4. **Mud properties:** Plastic viscosity (PV) should be less than 15 centipoise (cp), and less than 10 cp, if possible, yield point (YP) should be less than 10 pound/100-square feet (lb/100 ft²) decreasing down to about 5 lb/100 ft².
5. **Mud gel strength:** A nonthixotropic mud is desirable for good mud removal. Mud left in the hole prior to running casing should have 10-second/10-minute/30-minute gel strength such that the 10-minute is less than double the 10-second and the 30-minute is less than 20 lb/100 ft²). Sufficient shear strength may not be achieved on a primary cement job to remove mud left in the hole should the mud develop more than 25 lb/100 ft².
6. **Mud fluid loss:** Decreasing the filtrate loss into a permeable zone enhances the creation of a thin filter cake. This increases the fluid mud in the hole, which is more easily removed. Generally, an API fluid loss of 7 or 8 milliliter (ml) is sufficient with high-temperature/high-pressure fluid loss (HTHP) no more than double this amount.
7. **Circulation:** Circulate bottoms up twice, or until well conditioned mud is being returned to the surface. There should be no cuttings in the mud returns. An annular velocity of 260 feet per minute is optimum (SPE/IADC 18617), if possible.
8. **Flow rate:** Turbulent flow is more desirable flow regime for mud removal. If turbulence cannot be achieved, better mud removal is found when maximum flow energy is used. The maximum pump rate should be determined to obtain the best flow regime.
9. **Hole size:** The optimum hole size recommended for good mud removal is 1.5 to 2 inches larger than the casing or liner size. Hole sizes larger than 2 inches annular space can be dealt with, but those that are smaller than 1.5 inches present difficult problems.
10. **Pipe Centralization:** This helps to create a uniform flow area perpendicular to flow direction. Cement will take the path of least resistance so that centralization is important in keeping the pipe off the walls of the hole. At least a 70 percent standoff should be achieved for centralization.
11. **Rat hole:** When applicable, a weighted viscous pill in the rat hole prevents cement from swapping with lighter weight mud when displacement stops.
12. **Shoe joint:** A shoe joint is recommended on all primary casings and liners. The length of the shoe joint will vary, although the absolute minimum length is one joint of pipe. If conditions exist, such as not running a bottom plug, two joints should be the minimum length.

Job Information

Open hole PLug

Well Name: Lost Tank 4 Federal

Well #: 22

9-5/8" - 1st Intermediate Casing

0 - 4186 ft (MD)

Outer Diameter

9.625 in

Inner Diameter

8.835 in

Linear Weight

40 lbm/ft

Thread

LTC

Casing Grade

J-55

8-3/4" Hole

4186 - 4800 ft (MD)

Inner Diameter

8.750 in

Job Excess

35 %

5" Drill Pipe

0 - 4800 ft (MD)

Outer Diameter

5.000 in

Inner Diameter

4.276 in

Linear Weight

19.50 lbm/ft

Tubing Grade

S-135

Open hole plug : (4300 - 4800) ft

Temperature Gradients - Permian Basin

BHST

116 degF

BHCT

100 degF

Mud Weight

9.25 lbm/gal

Calculations

Open hole PLug

Cement :

$500.00 \text{ ft} \times 0.4176 \text{ ft}^3/\text{ft} \times 35 \%$

$= 281.87 \text{ ft}^3$

Primary Cement

$= 281.87 \text{ ft}^3$

$= 50.20 \text{ bbl}$

Job Recommendation

Open hole PLug

Install floating equipment, run casing to bottom, and circulate a minimum of 2-3 hole volumes prior to cementing as follows:

Fluid Instructions

Fluid 1: TUNED SPACER III

0.5 lbm/bbl Fe-2 (Buffer)
0.5 gal/bbl Dual Spacer Surfactant B (Surfactant)
233.2 lbm/bbl Barite (Heavy Weight Additive)

Fluid Density: 13 lbm/gal
Total Volume: 20.00 bbl
Volume Ahead: 18.15 bbl

Fluid 2: PlugCem H

PLUGCEM (TM) SYSTEM

0.75 % CFR-3 (Dispersant)
0.2 % HR-800 (Retarder)
3 % KCL (Additive Material)

Fluid Weight 17.50 lbm/gal
Slurry Yield: 0.95 ft³/sk
Total Mixing Fluid: 3.50 Gal/sk
Top of Fluid: 4300 ft
Calculated Fill: 226.81 ft
Volume: 50.2 bbl
Calculated Sacks: 295 sks
Proposed Sacks: 300 sks

Estimated Slurry Properties:
Compressive Strengths @ 115 °F

Thickening Time: 04:00
09:05 500 psi
12:00 1917 psi
24:00 5107 psi

Job Procedure

Open hole PLug

Detailed Pumping Schedule

Fluid #	Fluid Type	Fluid Name	Surface Density lbm/gal	Estimated Avg. Rate bbl/min	Downhole Volume
1	Spacer	Spacer	13.0	5.0	18.15 bbl
2	Cement	Primary Cement	17.5	5.0	300 sks

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Lab Reports

Open hole PLug

HALLIBURTON

Permian Basin, Hobbs

Lab Reference - Plug

Job Information

Request/Slurry	2632574	Rig Name	H&P # 477	Date	26 Dec 2012
Submitted By	Juan Jimenez - Ecuador	Job Type	Open Hole Plug	Bulk Plant	Hobbs, NM
Customer	ONY, USA	Location		Well	LOST TANK 4 FEDERAL 022

Well Information

Casing/Liner Size		Depth MD	4800 ft	BHST	116 degF
Hole Size	8.75"	Depth TVD	4800 ft	BHCT	106 degF

Drilling Fluid Information

Mud Supplier Name		Mud Trade Name		Density	9 lbm/gal
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Cement Information - Plug Design

Conc	UOM	Cement/Additive	Sample Type	Sample Date	Lot No.	Cement Properties	
100	% BWOC	Cement Blend				Slurry Density	17.500 lbm/gal
3.41	gal/sack	Fresh Water				Slurry Yield	0.95 ft ³ /sack
0.2	% BWOC	HR-S00				Water Requirement	3.40 gal/sack
3	% BWOW	KCl (Potassium Chloride) Salt				Total Mix Fluid	3.40 gal/sack
0.75	% BWOC	CFR-3 (PB)				Water Source	Fresh Water
						Water Chloride	N/A

Pilot Test Results Request ID 2632574

API Rheology Request Test ID: 2817898

Temp (°F)	300	200	100	6	3	PV/YP
100	99	70	40	5	4	96.19 / 4.7

Thickening Time Request Test ID: 2817896

Temp (°F)	Pressure (psi)	Reached in (min)	70 Bc (hh:mm)
100	3800	9	04:05

UCA Comp. Strength Request Test ID: 2817897

End Temp (°F)	Pressure (psi)	50 psi (hh:mm)	500 psi (hh:mm)	12 hr CS (psi)	24 hr CS (psi)
116	1000	07:45	09:05	1817	5107

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Cost Estimate

Open hole PLug

<u>Mtrl Nbr</u>	<u>Description</u>	<u>Qty</u>	<u>U/M</u>	<u>Unit Price</u>	<u>Net Amt</u>
7530	CMT PLUG BACK BOM	1	JOB		0.00
364879	PBOXY CMT Service Supervisor HOURS	1 10	EA	109.90	1,099.00
364885	PBOXY CMT Light Duty Vehicles HOURS	1 10	EA	39.97	399.70
364875	PBOXY CMT Service Operator HOURS	1 10	EA	99.91	999.10
364880	PBOXY CMT Pump Trlr/Trk Twin HT 400 HOURS	1 10	EA	277.26	2,772.60
364886	PBOXY CMT Tractors HOURS	1 10	EA	58.28	582.80
364878	PBOXY CMT Operations Assistant HOURS	1 10	EA	84.93	849.30
364881	PBOXY CMT Dry Bulk Transport Trlr 660 HOURS	1 10	EA	38.30	383.00
364886	PBOXY CMT Tractors HOURS	1 10	EA	58.28	582.80
364875	PBOXY CMT Service Operator HOURS	1 10	EA	99.91	999.10
364883	PBOXY CMT ZoneSeal/Batch Mixing Trlr HOURS	1 10	EA	68.27	682.70
364886	PBOXY CMT Tractors HOURS	1 10	EA	58.28	582.80
483826	TUNED SPACER III	19	BBL	26.20	497.80
100001615	FE-2	10	LB	1.51	15.10
100003665	DUAL SPACER SURF. B	10	GAL	17.40	174.00
100003681	BARITE	43	SK	14.59	627.37
100003653	CFR-3	212	LB	2.37	502.44
452969	PLUGCEM (TM) SYSTEM	300	SK		2,787.00
101619742	HR-800	57	LB	0.62	35.34
100001585	KCL POTASSIUM CHLORIDE	263	LB	50.99	134.10
	Total	USD			14,706.05
	Discount	USD			0.00
	Discounted Total	USD			14,706.05

Primary Plant: Hobbs, NM, USA
Contract 367

Secondary Plant: Hobbs, NM, USA

Price Book Ref: OC

Price Date: 3/15/2012

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Conditions

NOTE

The cost in this analysis is good for the materials and/or services outlined within and shall be valid for 30 days from the date of this proposal. In order to meet your needs under this proposal with a high quality of service and responsive timing, Halliburton will be allocating limited resources and committing valuable equipment and materials to your area of operations. Accordingly, the discounts reflected in this proposal are available only for materials and services awarded on a first-call basis. Alternate pricing may apply in the event that Halliburton is awarded work on any basis other than as a first-call provider.

The unit prices stated in the proposal are based on our current published prices. The projected equipment, personnel, and material needs are only estimates based on information about the work presently available to us. At the time the work is actually performed, conditions then existing may require an increase or decrease in the equipment, personnel, and/or material needs. Charges will be based upon unit prices in effect at the time the work is performed and the amount of equipment, personnel, and/or material actually utilized in the work. Taxes, if any, are not included. Applicable taxes, if any, will be added to the actual invoice.

It is understood and agreed between the parties that with the exception of the subject discounts, all services performed and equipment and materials sold are provided subject to Halliburton's General Terms and Conditions contained in our current price list, (which include LIMITATION OF LIABILITY and WARRANTY provisions), and pursuant to the applicable Halliburton Work Order Contract (whether or not executed by you), unless a Master Service and/or Sales Contract applicable to the services, equipment, or materials supplied exists between your company and Halliburton, in which case the negotiated Master Contract shall govern the relationship between the parties. A copy of the latest version of our General Terms and Conditions is available from your Halliburton representative or at:

<http://www.halliburton.com/terms> for your convenient review, and we would appreciate receiving any questions you may have about them. Should your company be interested in negotiating a Master Contract with Halliburton, our Law Department would be pleased to work with you to finalize a mutually agreeable contract. In this connection, it is also understood and agreed that Customer will continue to execute Halliburton usual field work orders and/or tickets customarily required by Halliburton in connection with the furnishing of said services, equipment, and materials.

Any terms and conditions contained in purchase orders or other documents issued by the customer shall be of no effect except to confirm the type and quantity of services, equipment, and materials to be supplied to the customer.

If customer does not have an approved open account with Halliburton or a mutually executed written contract with Halliburton, which dictates payment terms different than those set forth in this clause, all sums due are payable in cash at the time of performance of services or delivery of equipment, products, or materials. If customer has an approved open account, invoices are payable on the twentieth day after date of invoice.

Customer agrees to pay interest on any unpaid balance from the date payable until paid at the highest lawful contract rate applicable, but never to exceed 18% per annum. In the event Halliburton employs an attorney for collection of any account, customer agrees to pay attorney fees of 20% of the unpaid account, plus all collection and court costs.



Weatherford®

Drilling Services

Proposal



OCCIDENTAL PERMIAN LTD.

LOST TANK 4 FED #22

EDDY CO, NEW MEXICO

WELL FILE: SIDETRACK PLAN 1

DECEMBER 27, 2012

Weatherford International, Ltd.

P.O. Box 61028

Midland, TX 79711 USA

+1.432.561.8892 Main

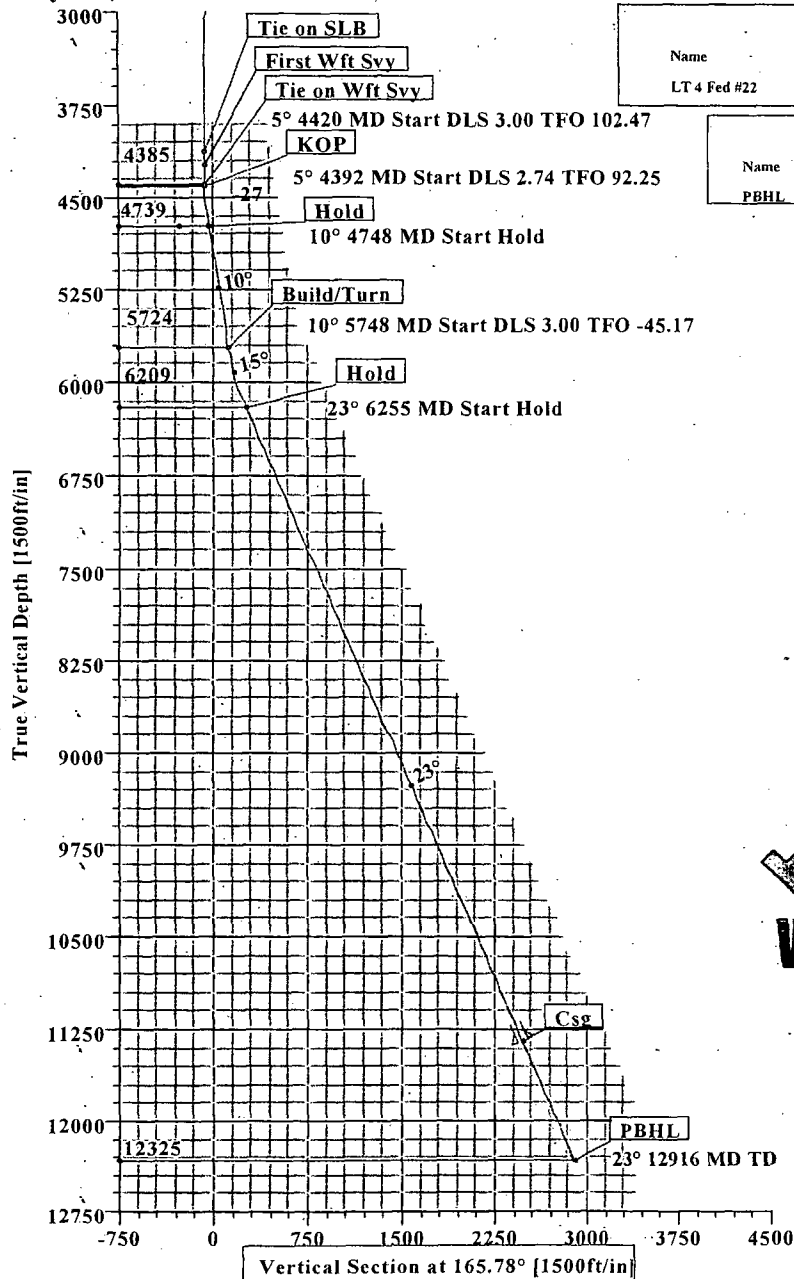
+1.432.561.8895 Fax

www.weatherford.com



Lost Tank 4 Fed #22 Eddy Co, New Mexico

KB ELEV: 3479.3
GL ELEV: 3454.3



SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	4392.00	4.87	111.82	4385.12	102.49	145.94	0.00	0.00	-63.50	
2	4420.00	4.90	120.82	4413.02	101.43	148.07	2.74	92.25	-61.95	
3	4748.41	10.00	195.00	4739.14	-66.62	152.74	3.00	102.47	-77.06	
4	5748.41	10.00	195.00	5723.95	-101.11	107.80	0.00	0.00	124.49	
5	6255.37	23.34	166.99	6209.17	-142.29	119.08	3.00	-45.17	164.12	
6	12916.06	23.34	166.99	12325.00	-2813.00	713.10	0.00	0.00	2901.98	PBHL

WELL DETAILS

Name	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
LT 4 Fed #22	-0.00	0.00	517979.20	671179.10	32°25'22.141N	103°46'42.874W	N/A

TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Shape
PBHL	12325.00	-2813.00	713.10	515166.20	671892.20	Circle (Radius: 25)

SITE DETAILS

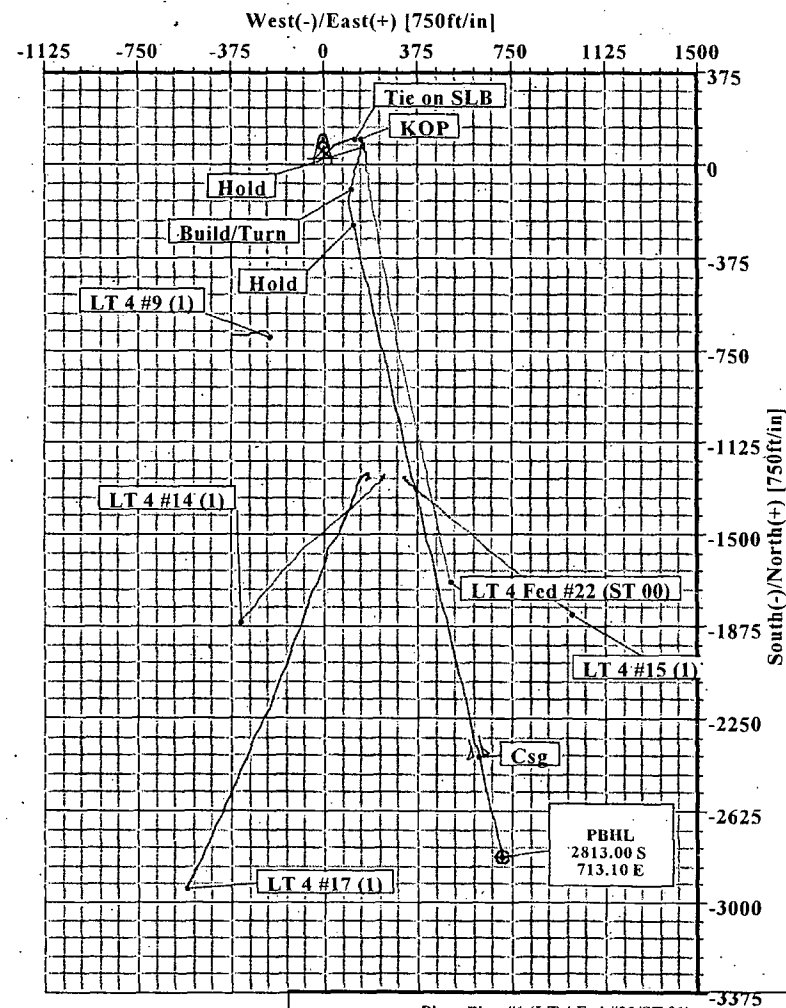
Lost Tank 4 Fed #22

Site Centre Northing: 517979.20
Easting: 671179.10

Ground Level: 3454.30
Positional Uncertainty: 0.00
Convergence: 0.30

LEGEND

- LT 4 #15 (1)
- LT 4 #9 (1)
- LT 4 #14 (1)
- LT 4 #17 (1)
- Lost Tank 3 Fed #27 (1)
- LT 4 Fed #22 (ST 00)
- ST 01
- Plan #1



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Target Window
25' Radius

Plan: Plan #1 (LT 4 Fed #22/ST 01)

Created By: Patrick Rudolph

Date: 12/27/2012



Weatherford International Ltd.

WFT Plan Report - X & Y's



Weatherford

Company: Occidental Permian Ltd.	Date: 12/27/2012	Time: 13:18:42	Page: 1
Field: Eddy Co. NM (Nad 27)	Co-ordinate(NE) Reference: Well: LT 4 Fed #22; Grid North		
Site: Lost Tank 4 Fed #22	Vertical (TVD) Reference: SITE 3479.3		
Well: LT 4 Fed #22	Section (VS) Reference: Well (0.00N 0.00E 165.78Azi)		
Wellpath: ST 01	Survey Calculation Method: Minimum Curvature	Db: Sybase	

Plan: Plan #1	Date Composed: 12/27/2012
Principal: Yes	Version: 1
	Tied-to: User Defined

Site: Lost Tank 4 Fed #22	
Site Position: Northing: 517979.20 ft Latitude: 32 25 22.141 N	
From: Map Easting: 671179.10 ft Longitude: 103 46 42.874 W	
Position Uncertainty: 0.00 ft North Reference: Grid	
Ground Level: 3454.30 ft Grid Convergence: 0.30 deg	

Well: LT 4 Fed #22	Slot Name:
Well Position: +N/S 0.00 ft Northing: 517979.20 ft Latitude: 32 25 22.141 N	
+E/W 0.00 ft Easting: 671179.10 ft Longitude: 103 46 42.874 W	
Position Uncertainty: 0.00 ft	

Wellpath: ST 01	Drilled From: ST 00
Current Datum: SITE	Tie-on Depth: 4392.00 ft
Magnetic Data: 12/27/2012	Above System Datum: Mean Sea Level
Field Strength: 48586 nT	Declination: 7.51 deg
Vertical Section: Depth From (TVD) +N/S	Mag Dip Angle: 60.30 deg
ft ft	+E/W Direction
0.00 0.00	ft deg
	0.00 165.78

Plan Section Information

MD ft	Incl deg	Azim deg	TVD ft	+N/S ft	+E/W ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	TFO deg	Target
4392.00	4.87	111.82	4385.12	102.49	145.94	0.00	0.00	0.00	0.00	
4420.00	4.90	120.82	4413.02	101.43	148.07	2.74	0.11	32.14	92.25	
4748.41	10.00	195.00	4739.14	66.62	152.74	3.00	1.55	22.59	102.47	
5748.41	10.00	195.00	5723.95	-101.11	107.80	0.00	0.00	0.00	0.00	
6255.37	23.34	166.99	6209.17	-242.29	119.08	3.00	2.63	-5.53	-45.17	
12916.06	23.34	166.99	12325.00	-2813.00	713.10	0.00	0.00	0.00	0.00	PBHL

Survey

MD ft	Incl deg	Azim deg	TVD ft	N/S ft	E/W ft	VS ft	DLS deg/100ft	MapN ft	MapE ft	Comment
4392.00	4.87	111.82	4385.12	102.49	145.94	-63.50	0.00	518081.69	671325.04	Tie on Wft Svy
4400.00	4.87	114.40	4393.09	102.22	146.56	-63.09	2.74	518081.42	671325.66	
4420.00	4.90	120.82	4413.02	101.43	148.07	-61.95	2.74	518080.63	671327.17	KOP
4500.00	4.97	149.00	4492.74	96.71	152.79	-56.22	3.00	518075.91	671331.89	
4600.00	6.46	175.63	4592.25	87.40	155.45	-46.53	3.00	518066.60	671334.55	
4700.00	8.75	190.41	4691.38	74.30	154.50	-34.07	3.00	518053.50	671333.60	
4748.41	10.00	195.00	4739.14	66.62	152.74	-27.06	3.00	518045.82	671331.84	Hold
4800.00	10.00	195.00	4789.95	57.97	150.43	-19.24	0.00	518037.17	671329.53	
4900.00	10.00	195.00	4888.43	41.19	145.93	-4.08	0.00	518020.39	671325.03	
5000.00	10.00	195.00	4986.91	24.42	141.44	11.07	0.00	518003.62	671320.54	
5100.00	10.00	195.00	5085.39	7.65	136.94	26.23	0.00	517986.85	671316.04	
5200.00	10.00	195.00	5183.87	-9.13	132.45	41.38	0.00	517970.07	671311.55	
5300.00	10.00	195.00	5282.35	-25.90	127.95	56.54	0.00	517953.30	671307.05	
5400.00	10.00	195.00	5380.83	-42.67	123.46	71.69	0.00	517936.53	671302.56	
5500.00	10.00	195.00	5479.31	-59.45	118.97	86.85	0.00	517919.75	671298.07	
5600.00	10.00	195.00	5577.79	-76.22	114.47	102.00	0.00	517902.98	671293.57	
5700.00	10.00	195.00	5676.27	-92.99	109.98	117.16	0.00	517886.21	671289.08	
5748.41	10.00	195.00	5723.95	-101.11	107.80	124.49	0.00	517878.09	671286.90	Build/Turn
5800.00	11.14	189.31	5774.66	-110.36	105.84	132.98	3.00	517868.84	671284.94	
5900.00	13.59	181.16	5872.34	-131.65	104.03	153.17	3.00	517847.55	671283.13	
6000.00	16.22	175.52	5968.97	-157.32	104.89	178.27	3.00	517821.88	671283.99	



Weatherford International Ltd.

WFT Plan Report - X & Y's



Weatherford

Company: Occidental Permian Ltd.	Date: 12/27/2012	Time: 13:18:42	Page: 2
Field: Eddy Co. NM (Nad 27)	Co-ordinate(NE) Reference: Well: LT-4 Fed #22, Grid-North		
Site: Lost Tank 4 Fed #22	Vertical (TVD) Reference: SITE 3479.3		
Well: LT 4 Fed #22	Section (VS) Reference: Well (0.00N,0.00E,165.78Azi)		
Wellpath: ST-01	Survey Calculation Method: Minimum Curvature	Db: Sybase	

Survey

MD ft	Incl deg	Azim deg	TVD ft	N/S ft	E/W ft	VS ft	DLS deg/100ft	MapN ft	MapE ft	Comment
6100.00	18.96	171.45	6064.29	-187.32	108.39	208.21	3.00	517791.88	671287.49	
6200.00	21.76	168.38	6158.04	-221.55	114.55	242.90	3.00	517757.65	671293.65	
6255.37	23.34	166.99	6209.17	-242.29	119.08	264.12	3.00	517736.91	671298.18	Hold
6300.00	23.34	166.99	6250.15	-259.51	123.06	281.79	0.00	517719.69	671302.16	
6400.00	23.34	166.99	6341.97	-298.11	131.98	321.40	0.00	517681.09	671311.08	
6500.00	23.34	166.99	6433.79	-336.71	140.90	361.00	0.00	517642.49	671320.00	
6600.00	23.34	166.99	6525.61	-375.30	149.82	400.60	0.00	517603.90	671328.92	
6700.00	23.34	166.99	6617.43	-413.90	158.73	440.21	0.00	517565.30	671337.83	
6800.00	23.34	166.99	6709.25	-452.49	167.65	479.81	0.00	517526.71	671346.75	
6900.00	23.34	166.99	6801.07	-491.09	176.57	519.41	0.00	517488.11	671355.67	
7000.00	23.34	166.99	6892.89	-529.68	185.49	559.02	0.00	517449.52	671364.59	
7100.00	23.34	166.99	6984.71	-568.28	194.41	598.62	0.00	517410.92	671373.51	
7200.00	23.34	166.99	7076.53	-606.87	203.33	638.22	0.00	517372.33	671382.43	
7300.00	23.34	166.99	7168.35	-645.47	212.24	677.83	0.00	517333.73	671391.34	
7400.00	23.34	166.99	7260.17	-684.06	221.16	717.43	0.00	517295.14	671400.26	
7500.00	23.34	166.99	7351.99	-722.66	230.08	757.03	0.00	517256.54	671409.18	
7600.00	23.34	166.99	7443.81	-761.25	239.00	796.64	0.00	517217.95	671418.10	
7700.00	23.34	166.99	7535.63	-799.85	247.92	836.24	0.00	517179.35	671427.02	
7800.00	23.34	166.99	7627.45	-838.44	256.84	875.84	0.00	517140.76	671435.94	
7900.00	23.34	166.99	7719.27	-877.04	265.75	915.45	0.00	517102.16	671444.85	
8000.00	23.34	166.99	7811.09	-915.63	274.67	955.05	0.00	517063.57	671453.77	
8100.00	23.34	166.99	7902.91	-954.23	283.59	994.65	0.00	517024.97	671462.69	
8200.00	23.34	166.99	7994.73	-992.83	292.51	1034.26	0.00	516986.37	671471.61	
8300.00	23.34	166.99	8086.55	-1031.42	301.43	1073.86	0.00	516947.78	671480.53	
8400.00	23.34	166.99	8178.37	-1070.02	310.35	1113.47	0.00	516909.18	671489.45	
8500.00	23.34	166.99	8270.19	-1108.61	319.26	1153.07	0.00	516870.59	671498.36	
8600.00	23.34	166.99	8362.01	-1147.21	328.18	1192.67	0.00	516831.99	671507.28	
8700.00	23.34	166.99	8453.83	-1185.80	337.10	1232.28	0.00	516793.40	671516.20	
8800.00	23.34	166.99	8545.65	-1224.40	346.02	1271.88	0.00	516754.80	671525.12	
8900.00	23.34	166.99	8637.47	-1262.99	354.94	1311.48	0.00	516716.21	671534.04	
9000.00	23.34	166.99	8729.29	-1301.59	363.86	1351.09	0.00	516677.61	671542.96	
9100.00	23.34	166.99	8821.11	-1340.18	372.77	1390.69	0.00	516639.02	671551.87	
9200.00	23.34	166.99	8912.93	-1378.78	381.69	1430.29	0.00	516600.42	671560.79	
9300.00	23.34	166.99	9004.75	-1417.37	390.61	1469.90	0.00	516561.83	671569.71	
9400.00	23.34	166.99	9096.57	-1455.97	399.53	1509.50	0.00	516523.23	671578.63	
9500.00	23.34	166.99	9188.39	-1494.56	408.45	1549.10	0.00	516484.64	671587.55	
9600.00	23.34	166.99	9280.21	-1533.16	417.36	1588.71	0.00	516446.04	671596.46	
9700.00	23.34	166.99	9372.03	-1571.75	426.28	1628.31	0.00	516407.45	671605.38	
9800.00	23.34	166.99	9463.85	-1610.35	435.20	1667.91	0.00	516368.85	671614.30	
9900.00	23.34	166.99	9555.67	-1648.95	444.12	1707.52	0.00	516330.25	671623.22	
10000.00	23.34	166.99	9647.49	-1687.54	453.04	1747.12	0.00	516291.66	671632.14	
10100.00	23.34	166.99	9739.30	-1726.14	461.96	1786.72	0.00	516253.06	671641.06	
10200.00	23.34	166.99	9831.12	-1764.73	470.87	1826.33	0.00	516214.47	671649.97	
10300.00	23.34	166.99	9922.94	-1803.33	479.79	1865.93	0.00	516175.87	671658.89	
10400.00	23.34	166.99	10014.76	-1841.92	488.71	1905.53	0.00	516137.28	671667.81	
10500.00	23.34	166.99	10106.58	-1880.52	497.63	1945.14	0.00	516098.68	671676.73	
10600.00	23.34	166.99	10198.40	-1919.11	506.55	1984.74	0.00	516060.09	671685.65	
10700.00	23.34	166.99	10290.22	-1957.71	515.47	2024.34	0.00	516021.49	671694.57	
10800.00	23.34	166.99	10382.04	-1996.30	524.38	2063.95	0.00	515982.90	671703.48	
10900.00	23.34	166.99	10473.86	-2034.90	533.30	2103.55	0.00	515944.30	671712.40	
11000.00	23.34	166.99	10565.68	-2073.49	542.22	2143.15	0.00	515905.71	671721.32	
11100.00	23.34	166.99	10657.50	-2112.09	551.14	2182.76	0.00	515867.11	671730.24	
11200.00	23.34	166.99	10749.32	-2150.68	560.06	2222.36	0.00	515828.52	671739.16	



Weatherford International Ltd.

WFT Plan Report - X & Y's



Weatherford

Company: Occidental Permian Ltd. Date: 12/27/2012 Time: 13:18:42 Page: 3
 Field: Eddy Co, NM (Nad 27) Co-ordinate(NE) Reference: Well: LT 4 Fed #22, Grid North
 Site: Lost Tank 4 Fed #22 Vertical (TVD) Reference: SITE 3479.3
 Well: LT 4 Fed #22 Section (VS) Reference: Well (0'00N,0'00E,165-78Azi)
 Wellpath: ST 01 Survey Calculation Method: Minimum Curvature Db: Sybase

Survey

MD ft	Incl deg	Azim deg	TVD ft	N/S ft	E/W ft	VS ft	DLS deg/100ft	MapN ft	MapE ft	Comment
11300.00	23.34	166.99	10841.14	-2189.28	568.98	2261.97	0.00	515789.92	671748.08	
11400.00	23.34	166.99	10932.96	-2227.87	577.89	2301.57	0.00	515751.33	671756.99	
11500.00	23.34	166.99	11024.78	-2266.47	586.81	2341.17	0.00	515712.73	671765.91	
11600.00	23.34	166.99	11116.60	-2305.06	595.73	2380.78	0.00	515674.14	671774.83	
11700.00	23.34	166.99	11208.42	-2343.66	604.65	2420.38	0.00	515635.54	671783.75	
11800.00	23.34	166.99	11300.24	-2382.26	613.57	2459.98	0.00	515596.94	671792.67	
11854.19	23.34	166.99	11350.00	-2403.17	618.40	2481.44	0.00	515576.03	671797.50	Csg
11900.00	23.34	166.99	11392.06	-2420.85	622.49	2499.59	0.00	515558.35	671801.59	
12000.00	23.34	166.99	11483.88	-2459.45	631.40	2539.19	0.00	515519.75	671810.50	
12100.00	23.34	166.99	11575.70	-2498.04	640.32	2578.79	0.00	515481.16	671819.42	
12200.00	23.34	166.99	11667.52	-2536.64	649.24	2618.40	0.00	515442.56	671828.34	
12300.00	23.34	166.99	11759.34	-2575.23	658.16	2658.00	0.00	515403.97	671837.26	
12400.00	23.34	166.99	11851.16	-2613.83	667.08	2697.60	0.00	515365.37	671846.18	
12500.00	23.34	166.99	11942.98	-2652.42	676.00	2737.21	0.00	515326.78	671855.10	
12600.00	23.34	166.99	12034.80	-2691.02	684.91	2776.81	0.00	515288.18	671864.01	
12700.00	23.34	166.99	12126.62	-2729.61	693.83	2816.41	0.00	515249.59	671872.93	
12800.00	23.34	166.99	12218.44	-2768.21	702.75	2856.02	0.00	515210.99	671881.85	
12900.00	23.34	166.99	12310.26	-2806.80	711.67	2895.62	0.00	515172.40	671890.77	
12916.06	23.34	166.99	12325.00	-2813.00	713.10	2901.98	0.00	515166.20	671892.20	PBHL

Targets

Name	Description Dip.	Dir.	TVD ft	+N/-S ft	+E/-W ft	Map Northing ft	Map Easting ft	<--- Latitude ---> Deg Min Sec			<--- Longitude ---> Deg Min Sec		
PBHL			12325.00	-2813.00	713.10	515166.20	671892.20	32	24	54.268 N	103	46	34.726 W
-Circle (Radius: 25) \													
-Plan hit target													

Casing Points

MD ft	TVD ft	Diameter in	Hole Size in	Name
11854.19	11350.00	0.000	0.000	Csg

Annotation

MD ft	TVD ft	
4136.00	4130.25	Tie on SLB
4234.00	4227.75	First Wft Svy
4392.00	4385.12	Tie on Wft Svy
4420.00	4413.02	KOP
4748.41	4739.14	Hold
5748.41	5723.95	Build/Turn
6255.37	6209.17	Hold
12916.05	12325.00	PBHL

Formations

MD	TVD	Formations	Lithology	Dip Angle	Dip Direction



Weatherford International Ltd.

WFT Plan Report - X & Y's



Weatherford

Company: Occidental Permian Ltd.	Date: 12/27/2012	Time: 13:18:42	Page: 4
Field: Eddy Co, NM (Nad 27)	Co-ordinate(NE) Reference:	Well: LT 4 Fed #22, Grid North	
Site: Lost Tank 4 Fed #22	Vertical (TVD) Reference:	SITE 3479.3	
Well: LT 4 Fed #22	Section (VS) Reference:	Well (0.00N 0.00E, 165.78Azi)	
Wellpath: ST-01	Survey Calculation Method:	Minimum Curvature	Db: Sybase

Field: Eddy Co, NM (Nad 27)

Map System: US State Plane Coordinate System 1927
Geo Datum: NAD27 (Clarke 1866)
Sys Datum: Mean Sea Level

Map Zone: New Mexico, Eastern Zone
Coordinate System: Well Centre
Geomagnetic Model: IGRF2010



Weatherford International Ltd.

Anticollision Report



Weatherford

Company: Occidental Permian Ltd. Date: 12/27/2012 Time: 13:25:46 Page: 1
 Field: Eddy Co. NM (Nad 27)
 Reference Site: Lost Tank 4 Fed #22 Co-ordinate(NE) Reference: Well: LT 4 Fed #22, Grid North
 Reference Well: LT 4 Fed #22 Vertical (TVD) Reference: SITE 3479.3
 Reference Wellpath: ST 01 Db: Sybase

NO GLOBAL SCAN: Using user defined selection & scan criteria
 Interpolation Method: MD Interval: 100.00 ft
 Depth Range: 100.00 to 12919.71 ft
 Maximum Radius: 10000.00 ft

Reference: Plan: Plan #1
 Error Model: ISCWSA Ellipse
 Scan Method: Closest Approach 3D
 Error Surface: Ellipse

Plan: Plan #1

Date Composed: 12/27/2012

Principal: Yes

Version: 1

Tied-to:

User Defined

Summary

Site	Offset Wellpath	Wellpath	Reference MD ft	Offset MD ft	Ctr-Ctr Distance ft	Edge Distance ft	Separation Factor	Warning
Exist. Lost Tank 4 #	LT 4 #15	1 V0	8700.00	8093.00	1030.70	995.76	29.50	
Exist. Lost Tank 4 #	LT 4 #9	1 V0	7400.00	7250.19	442.73	414.71	15.80	
Exist. Lost Tank 4 F	LT 4 #14	1 V0	8600.00	8150.00	1030.89	992.39	26.78	
Exist. Lost Tank 4 F	LT 4 #17	1 V0	9500.00	8475.00	2107.33	2062.47	46.98	
Lost Tank 3 Fed #27	Lost Tank 3 Fed #27	1 V0 Plan: Plan #1 V1	12900.00	13232.66	1465.21	1334.45	11.21	
Lost Tank 4 Fed #22	LT 4 Fed #22	ST 00 V4	4300.00	4300.00	0.00	-16.64	0.00	No Data

Site: Exist. Lost Tank 4 #15

Well: LT 4 #15

Wellpath: 1 V0

Inter-Site Error: 0.00 ft

Reference MD ft	TVD ft	Offset MD ft	TVD ft	Semi-Major Axis Ref ft	Offset ft	TFO-HS deg	Offset Location North ft	East ft	Ctr-Ctr Distance ft	Edge Distance ft	Separation Factor	Warning
100.00	100.00	93.94	93.93	0.10	0.12	204.53	-1270.29	326.45	1311.67	1311.45	5897.48	
200.00	200.00	195.52	195.52	0.36	0.39	186.46	-1270.24	326.96	1312.16	1311.41	1741.90	
300.00	299.99	295.84	295.83	0.63	0.66	185.02	-1270.10	327.51	1313.09	1311.81	1024.78	
400.00	399.99	395.96	395.96	0.89	0.92	197.77	-1269.97	328.01	1314.34	1312.53	725.98	
500.00	499.98	495.40	495.39	1.16	1.18	197.63	-1269.87	328.35	1315.72	1313.38	563.31	
600.00	599.96	595.41	595.41	1.42	1.44	182.10	-1269.88	328.49	1317.51	1314.65	460.60	
700.00	699.94	698.16	698.16	1.58	1.60	160.55	-1269.74	328.65	1319.30	1316.12	414.82	
800.00	799.92	798.12	798.11	1.65	1.62	153.50	-1269.59	328.84	1321.07	1317.80	403.32	
900.00	899.90	894.19	894.19	1.70	1.67	152.59	-1269.47	329.03	1322.85	1319.47	392.06	
1000.00	999.88	996.04	996.04	1.78	1.75	153.20	-1269.52	329.08	1324.63	1321.10	375.78	
1100.00	1099.86	1095.14	1095.14	1.87	1.85	153.37	-1269.52	329.05	1326.22	1322.51	357.27	
1200.00	1199.85	1191.28	1191.27	1.98	1.96	152.96	-1269.66	329.18	1328.04	1324.11	337.79	
1300.00	1299.83	1287.93	1287.92	2.11	2.08	151.80	-1270.12	329.32	1330.22	1326.04	317.98	
1400.00	1399.81	1388.44	1388.43	2.25	2.22	149.89	-1270.62	329.63	1332.38	1327.92	298.53	
1500.00	1499.80	1488.38	1488.36	2.40	2.37	149.92	-1271.06	330.03	1334.45	1329.69	280.21	
1600.00	1599.78	1588.71	1588.70	2.56	2.53	150.90	-1271.57	330.23	1336.61	1331.54	263.30	
1700.00	1699.76	1687.58	1687.57	2.72	2.69	151.81	-1272.04	330.53	1338.83	1333.42	247.87	
1800.00	1799.74	1787.09	1787.07	2.89	2.87	147.33	-1272.59	330.90	1341.16	1335.42	233.56	
1900.00	1899.72	1879.78	1879.76	3.07	3.04	138.84	-1273.29	331.38	1343.82	1337.74	220.90	
2000.00	1999.68	1977.72	1977.69	3.26	3.21	135.40	-1274.49	331.74	1346.92	1340.47	208.84	
2100.00	2099.65	2104.16	2104.12	3.45	3.44	132.37	-1275.48	330.86	1349.35	1342.48	196.54	
2200.00	2199.61	2230.80	2230.71	3.65	3.67	129.58	-1273.47	328.25	1349.01	1341.72	184.95	
2300.00	2299.57	2315.31	2315.20	3.85	3.83	127.15	-1271.92	326.67	1348.71	1341.06	176.23	
2400.00	2399.51	2405.43	2405.30	4.05	4.01	124.76	-1271.31	325.48	1349.72	1341.69	168.03	
2500.00	2499.44	2507.73	2507.60	4.26	4.21	123.18	-1270.74	324.53	1351.07	1342.63	160.11	
2600.00	2599.34	2609.23	2609.10	4.47	4.40	122.70	-1269.91	323.68	1352.45	1343.61	152.93	
2700.00	2699.22	2709.25	2709.11	4.69	4.60	121.97	-1269.05	322.84	1354.12	1344.87	146.36	
2800.00	2799.06	2812.65	2812.50	4.91	4.80	122.69	-1267.97	322.02	1355.86	1346.19	140.22	
2900.00	2898.89	2912.01	2911.85	5.13	5.00	124.92	-1266.81	321.30	1357.87	1347.78	134.67	
3000.00	2998.69	3007.49	3007.32	5.35	5.19	124.36	-1265.72	321.19	1360.36	1349.87	129.63	
3100.00	3098.47	3105.07	3104.90	5.58	5.39	121.96	-1264.89	321.26	1363.14	1352.23	124.93	
3200.00	3198.23	3199.21	3199.03	5.80	5.58	115.78	-1264.30	321.46	1365.96	1354.63	120.60	
3300.00	3297.97	3289.46	3289.28	6.03	5.76	108.46	-1264.05	322.14	1368.58	1356.84	116.60	
3400.00	3397.68	3378.94	3378.76	6.26	5.95	105.00	-1264.54	322.75	1371.42	1359.27	112.94	



Weatherford International Ltd.

Anticollision Report



Weatherford

Company: Occidental Permian Ltd. Date: 12/27/2012 Time: 13:25:46 Page: 2
 Field: Eddy Co. NM (Nad.27)
 Reference Site: Lost Tank 4 Fed #22
 Reference Well: LT 4 Fed #22
 Reference Wellpath: ST 01
 Co-ordinate(N/E) Reference: Well: LT 4 Fed #22, Grid North
 Vertical (TVD) Reference: SITE 3479.3
 Db: Sybase

Site: Exist. Lost Tank 4 #15
 Well: LT 4 #15
 Wellpath: 1 V0

Inter-Site Error: 0.00 ft

Reference MD	Reference TVD	Offset MD	Offset TVD	Semi-Major Axis Ref	Offset	TFO-HS	North	East	Ctr-Ctr Distance	Edge Distance	Separation Factor	Warning
ft	ft	ft	ft	ft	ft	deg	ft	ft	ft	ft		
3500.00	3497.36	3474.22	3474.03	6.49	6.14	100.84	-1265.68	323.37	1374.50	1361.93	109.37	
3600.00	3596.99	3572.71	3572.51	6.73	6.34	98.39	-1266.93	324.11	1377.33	1364.32	105.88	
3700.00	3696.56	3668.34	3668.13	6.97	6.54	97.51	-1268.35	324.81	1380.21	1366.76	102.63	
3800.00	3796.07	3760.50	3760.26	7.22	6.73	96.44	-1270.15	325.75	1383.51	1369.62	99.61	
3900.00	3895.53	3859.84	3859.57	7.47	6.93	95.98	-1272.36	326.76	1386.99	1372.65	96.71	
4000.00	3995.00	3965.14	3964.85	7.71	7.15	96.41	-1274.47	327.41	1390.21	1375.42	93.98	
4100.00	4094.45	4060.54	4060.23	7.96	7.34	96.11	-1276.34	327.82	1393.38	1378.16	91.50	
4200.00	4193.92	4153.43	4153.09	8.14	7.54	91.02	-1278.42	329.16	1396.61	1381.00	89.52	
4300.00	4293.46	4256.14	4255.75	8.21	7.75	80.96	-1280.66	331.06	1398.39	1382.51	88.05	
4400.00	4393.09	4350.33	4349.90	8.24	7.94	57.92	-1282.94	332.88	1398.18	1382.08	86.83	
4500.00	4492.74	4452.29	4451.80	8.25	8.15	23.52	-1285.45	335.02	1394.61	1378.28	85.40	
4600.00	4592.25	4539.32	4538.77	8.25	8.33	356.81	-1287.54	337.64	1387.82	1371.31	84.04	
4700.00	4691.38	4611.34	4610.66	8.24	8.48	341.77	-1290.47	340.67	1379.54	1362.88	82.84	
4800.00	4789.95	4688.91	4688.01	8.22	8.65	336.80	-1294.92	344.48	1370.22	1353.41	81.50	
4900.00	4888.43	4775.00	4773.75	8.22	8.84	336.37	-1300.67	349.68	1361.74	1344.72	80.01	
5000.00	4986.91	4846.04	4844.35	8.23	9.01	335.97	-1306.31	355.19	1354.87	1337.67	78.79	
5100.00	5085.39	4934.87	4932.38	8.26	9.21	335.40	-1314.61	363.74	1349.79	1332.37	77.47	
5200.00	5183.87	5019.80	5016.36	8.30	9.42	334.79	-1322.74	373.47	1345.49	1327.84	76.25	
5300.00	5282.35	5105.00	5100.35	8.35	9.63	334.11	-1331.53	384.68	1342.46	1324.58	75.09	
5400.00	5380.83	5185.41	5179.37	8.42	9.84	333.43	-1340.55	396.51	1340.88	1322.78	74.08	
5500.00	5479.31	5255.36	5247.83	8.56	10.04	332.80	-1349.31	407.90	1341.23	1322.93	73.30	
5600.00	5577.79	5331.17	5321.71	8.71	10.26	332.10	-1360.13	421.01	1343.81	1325.29	72.56	
5700.00	5676.27	5406.00	5394.26	8.88	10.49	331.35	-1371.32	435.51	1348.07	1329.30	71.83	
5800.00	5774.66	5477.36	5463.07	9.07	10.73	336.19	-1383.13	450.28	1353.91	1334.94	71.36	
5900.00	5872.34	5563.73	5545.96	9.29	11.04	343.28	-1398.64	468.95	1357.29	1338.07	70.64	
6000.00	5968.97	5657.31	5635.65	9.55	11.40	347.86	-1415.67	489.51	1356.35	1336.87	69.61	
6100.00	6064.29	5753.14	5727.41	9.86	11.76	350.92	-1433.29	510.79	1350.94	1331.17	68.35	
6200.00	6158.04	5853.18	5823.26	10.24	12.14	353.01	-1451.70	532.71	1340.68	1320.62	66.85	
6300.00	6250.15	5946.20	5912.42	10.69	12.50	353.59	-1468.96	552.86	1326.17	1305.78	65.04	
6400.00	6341.97	6037.64	5999.99	11.17	12.87	352.83	-1486.25	572.69	1311.49	1290.67	63.00	
6500.00	6433.79	6128.06	6086.49	11.69	13.26	352.08	-1503.84	592.29	1297.57	1276.31	61.04	
6600.00	6525.61	6224.41	6178.61	12.23	13.69	351.27	-1522.87	613.21	1284.20	1262.46	59.07	
6700.00	6617.43	6342.83	6291.97	12.80	14.20	350.25	-1545.70	638.71	1270.66	1248.33	56.91	
6800.00	6709.25	6445.95	6391.00	13.38	14.62	349.32	-1564.11	660.77	1255.98	1233.12	54.96	
6900.00	6801.07	6554.34	6495.27	13.98	15.07	348.32	-1582.83	683.69	1240.99	1217.57	53.00	
7000.00	6892.89	6657.95	6595.23	14.60	15.49	347.37	-1600.41	704.52	1225.55	1201.59	51.14	
7100.00	6984.71	6766.72	6700.38	15.22	15.93	346.38	-1618.53	725.66	1209.85	1185.31	49.29	
7200.00	7076.53	6878.98	6809.18	15.87	16.37	345.29	-1635.62	747.39	1193.14	1167.97	47.41	
7300.00	7168.35	6976.19	6903.58	16.52	16.77	344.33	-1649.85	765.69	1176.00	1150.27	45.70	
7400.00	7260.17	7065.00	6989.66	17.18	17.14	343.39	-1662.86	783.29	1159.72	1133.43	44.11	
7500.00	7351.99	7156.16	7077.86	17.84	17.55	342.39	-1676.44	801.87	1144.33	1117.45	42.57	
7600.00	7443.81	7251.52	7170.06	18.52	17.99	341.30	-1690.81	821.52	1129.64	1102.12	41.05	
7700.00	7535.63	7348.48	7263.80	19.20	18.43	340.18	-1705.48	841.51	1115.41	1087.24	39.59	
7800.00	7627.45	7445.25	7357.38	19.89	18.86	339.03	-1720.07	861.32	1101.52	1072.67	38.18	
7900.00	7719.27	7534.31	7443.45	20.58	19.26	337.96	-1733.86	879.62	1088.46	1058.96	36.89	
8000.00	7811.09	7629.71	7535.54	21.27	19.69	336.81	-1749.18	899.26	1076.35	1046.14	35.62	
8100.00	7902.91	7726.84	7629.36	21.98	20.14	335.63	-1764.97	918.80	1064.59	1033.63	34.38	
8200.00	7994.73	7818.64	7717.98	22.68	20.56	334.49	-1780.09	937.44	1053.57	1021.87	33.23	
8300.00	8086.55	7907.96	7804.05	23.39	21.00	333.37	-1795.12	955.96	1043.60	1011.14	32.15	
8400.00	8178.37	8001.32	7893.84	24.10	21.45	332.17	-1811.41	975.63	1034.82	1001.55	31.11	
8500.00	8270.19	8093.00	7982.13	24.82	21.88	330.99	-1827.15	994.71	1026.21	992.09	30.08	



Weatherford International Ltd.

Anticollision Report



Weatherford

Company: Occidental Permian Ltd. Date: 12/27/2012 Time: 13:25:46 Page: 3
 Field: Eddy Co. NM (Nad 27)
 Reference Site: Lost Tank 4 Fed #22 Co-ordinate(NE) Reference: Well: LT 4 Fed #22, Grid North
 Reference Well: LT 4 Fed #22 Vertical (TVD) Reference: SITE 3479.3
 Reference Wellpath: ST 01 Db: Sybase

Site: Exist. Lost Tank 4 #15
 Well: LT 4 #15
 Wellpath: 1 VO

Inter-Site Error: 0.00 ft

Reference		Offset		Semi-Major Axis		Offset Location		Ctr-Ctr	Edge	Separation	Warning	
MD	TVD	MD	TVD	Ref	Offset	TFO-HS	North	East	Distance	Distance		Factor
ft	ft	ft	ft	ft	ft	deg	ft	ft	ft	ft		
8600.00	8362.01	8093.00	7982.13	25.53	21.88	330.99	-1827.15	994.71	1023.58	989.06	29.65	
8700.00	8453.83	8093.00	7982.13	26.25	21.88	330.99	-1827.15	994.71	1030.70	995.76	29.50	
8800.00	8545.65	8093.00	7982.13	26.97	21.88	330.99	-1827.15	994.71	1047.35	1011.99	29.62	
8900.00	8637.47	8093.00	7982.13	27.70	21.88	330.99	-1827.15	994.71	1073.11	1037.32	29.98	
9000.00	8729.29	8093.00	7982.13	28.42	21.88	330.99	-1827.15	994.71	1107.33	1071.09	30.56	
9100.00	8821.11	8093.00	7982.13	29.15	21.88	330.99	-1827.15	994.71	1149.26	1112.57	31.32	
9200.00	8912.93	8093.00	7982.13	29.88	21.88	330.99	-1827.15	994.71	1198.09	1160.94	32.25	
9300.00	9004.75	8093.00	7982.13	30.61	21.88	330.99	-1827.15	994.71	1253.01	1215.39	33.31	
9400.00	9096.57	8093.00	7982.13	31.34	21.88	330.99	-1827.15	994.71	1313.26	1275.16	34.47	
9500.00	9188.39	8093.00	7982.13	32.08	21.88	330.99	-1827.15	994.71	1378.14	1339.55	35.71	
9600.00	9280.21	8093.00	7982.13	32.81	21.88	330.99	-1827.15	994.71	1447.02	1407.93	37.02	
9700.00	9372.03	8093.00	7982.13	33.55	21.88	330.99	-1827.15	994.71	1519.37	1479.77	38.37	
9800.00	9463.85	8093.00	7982.13	34.28	21.88	330.99	-1827.15	994.71	1594.71	1554.60	39.75	
9900.00	9555.67	8093.00	7982.13	35.02	21.88	330.99	-1827.15	994.71	1672.64	1632.00	41.15	
10000.00	9647.49	8093.00	7982.13	35.76	21.88	330.99	-1827.15	994.71	1752.81	1711.63	42.57	
10100.00	9739.30	8093.00	7982.13	36.50	21.88	330.99	-1827.15	994.71	1834.93	1793.21	43.98	
10200.00	9831.12	8093.00	7982.13	37.24	21.88	330.99	-1827.15	994.71	1918.74	1876.47	45.39	
10300.00	9922.94	8093.00	7982.13	37.98	21.88	330.99	-1827.15	994.71	2004.04	1961.22	46.80	
10400.00	10014.76	8093.00	7982.13	38.73	21.88	330.99	-1827.15	994.71	2090.65	2047.26	48.18	
10500.00	10106.58	8093.00	7982.13	39.47	21.88	330.99	-1827.15	994.71	2178.40	2134.44	49.56	
10600.00	10198.40	8093.00	7982.13	40.21	21.88	330.99	-1827.15	994.71	2267.16	2222.63	50.91	
10700.00	10290.22	8093.00	7982.13	40.96	21.88	330.99	-1827.15	994.71	2356.83	2311.72	52.25	
10800.00	10382.04	8093.00	7982.13	41.70	21.88	330.99	-1827.15	994.71	2447.30	2401.61	53.57	
10900.00	10473.86	8093.00	7982.13	42.45	21.88	330.99	-1827.15	994.71	2538.48	2492.21	54.86	
11000.00	10565.68	8093.00	7982.13	43.19	21.88	330.99	-1827.15	994.71	2630.30	2583.45	56.13	
11100.00	10657.50	8093.00	7982.13	43.94	21.88	330.99	-1827.15	994.71	2722.70	2675.26	57.39	
11200.00	10749.32	8093.00	7982.13	44.69	21.88	330.99	-1827.15	994.71	2815.62	2767.59	58.62	
11300.00	10841.14	8093.00	7982.13	45.43	21.88	330.99	-1827.15	994.71	2909.01	2860.39	59.83	
11400.00	10932.96	8093.00	7982.13	46.18	21.88	330.99	-1827.15	994.71	3002.83	2953.61	61.02	
11500.00	11024.78	8093.00	7982.13	46.93	21.88	330.99	-1827.15	994.71	3097.03	3047.22	62.18	
11600.00	11116.60	8093.00	7982.13	47.68	21.88	330.99	-1827.15	994.71	3191.58	3141.19	63.33	
11700.00	11208.42	8093.00	7982.13	48.43	21.88	330.99	-1827.15	994.71	3286.46	3235.48	64.46	
11800.00	11300.24	8093.00	7982.13	49.18	21.88	330.99	-1827.15	994.71	3381.63	3330.06	65.58	
11900.00	11392.06	8093.00	7982.13	49.93	21.88	330.99	-1827.15	994.71	3477.07	3424.92	66.67	
12000.00	11483.88	8093.00	7982.13	50.68	21.88	330.99	-1827.15	994.71	3572.77	3520.03	67.75	
12100.00	11575.70	8093.00	7982.13	51.43	21.88	330.99	-1827.15	994.71	3668.69	3615.37	68.81	
12200.00	11667.52	8093.00	7982.13	52.18	21.88	330.99	-1827.15	994.71	3764.82	3710.93	69.85	
12300.00	11759.34	8093.00	7982.13	52.93	21.88	330.99	-1827.15	994.71	3861.15	3806.68	70.88	
12400.00	11851.16	8093.00	7982.13	53.68	21.88	330.99	-1827.15	994.71	3957.67	3902.62	71.90	
12500.00	11942.98	8093.00	7982.13	54.43	21.88	330.99	-1827.15	994.71	4054.35	3998.73	72.90	
12600.00	12034.80	8093.00	7982.13	55.18	21.88	330.99	-1827.15	994.71	4151.19	4095.00	73.89	
12700.00	12126.62	8093.00	7982.13	55.93	21.88	330.99	-1827.15	994.71	4248.17	4191.42	74.86	
12800.00	12218.44	8093.00	7982.13	56.69	21.88	330.99	-1827.15	994.71	4345.29	4287.98	75.82	
12900.00	12310.26	8093.00	7982.13	57.44	21.88	330.99	-1827.15	994.71	4442.54	4384.67	76.77	



Weatherford International Ltd.

Anticollision Report



Weatherford

Company: Occidental Permian Ltd. Date: 12/27/2012 Time: 13:25:46 Page: 4
 Field: Eddy Co. NM (Nad 27)
 Reference Site: Lost Tank 4 Fed #22 Co-ordinate(NE) Reference: Well: LT 4 Fed #22 Grid North
 Reference Well: LT 4 Fed #22 Vertical (TVD) Reference: SITE 3479.3
 Reference Wellpath: ST 01 Db: Sybase

Site: Exist. Lost Tank 4 #9
 Well: LT 4 #9
 Wellpath: 1 VO

Inter-Site Error: 0.00 ft

Reference		Offset		Semi-Major Axis		Offset Location		Ctr-Ctr Distance	Edge Distance	Separation Factor	Warning
MD	TVD	MD	TVD	Ref	Offset	TFO-HS	North				
ft	ft	ft	ft	ft	ft	deg	ft	ft	ft	ft	
100.00	100.00	83.20	83.19	0.10	0.09	246.99	-687.99	-366.73	779.67	779.48	4054.55
200.00	200.00	180.87	180.87	0.36	0.30	228.93	-688.08	-366.85	780.06	779.40	1183.53
300.00	299.99	281.50	281.50	0.63	0.50	227.47	-688.38	-366.96	781.00	779.88	695.36
400.00	399.99	383.94	383.94	0.89	0.63	240.16	-688.53	-366.86	781.84	780.31	512.45
500.00	499.98	480.83	480.83	1.16	0.79	239.97	-688.58	-366.87	782.62	780.68	403.08
600.00	599.96	583.68	583.68	1.42	0.96	224.35	-688.78	-366.97	783.94	781.56	329.68
700.00	699.94	684.55	684.55	1.58	1.11	202.73	-688.64	-366.93	785.40	782.71	292.23
800.00	799.92	782.72	782.72	1.65	1.27	195.61	-688.53	-366.99	787.30	784.37	269.17
900.00	899.90	883.64	883.64	1.70	1.46	194.62	-688.61	-366.92	789.33	786.18	250.08
1000.00	999.88	984.48	984.48	1.78	1.62	195.15	-688.55	-366.77	791.09	787.69	232.66
1100.00	1099.86	1083.24	1083.24	1.87	1.80	195.26	-688.45	-366.73	792.71	789.05	216.44
1200.00	1199.85	1185.89	1185.89	1.98	1.98	194.78	-688.34	-366.66	794.36	790.41	200.87
1300.00	1299.83	1282.75	1282.74	2.11	2.15	193.56	-688.10	-366.67	795.99	791.75	187.37
1400.00	1399.81	1384.55	1384.55	2.25	2.33	191.58	-688.15	-366.59	797.78	793.21	174.48
1500.00	1499.80	1482.44	1482.43	2.40	2.51	191.55	-688.12	-366.43	799.44	794.53	163.06
1600.00	1599.78	1580.12	1580.12	2.56	2.70	192.45	-688.41	-366.38	801.49	796.25	152.84
1700.00	1699.76	1682.50	1682.49	2.72	2.91	193.27	-688.87	-366.09	803.64	798.02	143.13
1800.00	1799.74	1780.88	1780.88	2.89	3.12	188.69	-689.20	-365.69	805.66	799.67	134.39
1900.00	1899.72	1880.67	1880.66	3.07	3.35	180.10	-689.85	-365.11	808.22	801.83	126.44
2000.00	1999.68	1985.90	1985.88	3.26	3.58	176.50	-690.52	-363.84	810.73	803.92	118.93
2100.00	2099.65	2085.75	2085.71	3.45	3.81	173.23	-690.84	-362.33	812.89	805.65	112.41
2200.00	2199.61	2188.53	2188.48	3.65	4.05	170.16	-691.08	-360.78	815.14	807.48	106.39
2300.00	2299.57	2289.16	2289.10	3.85	4.28	167.53	-691.09	-359.09	817.39	809.30	101.06
2400.00	2399.51	2390.01	2389.93	4.05	4.51	164.91	-691.20	-357.05	819.87	811.34	96.17
2500.00	2499.44	2495.69	2495.57	4.26	4.76	163.06	-691.27	-354.12	822.31	813.33	91.61
2600.00	2599.34	2595.87	2595.69	4.47	5.00	162.26	-691.25	-350.61	824.90	815.48	87.57
2700.00	2699.22	2698.73	2698.47	4.69	5.25	161.19	-691.31	-346.44	827.92	818.04	83.83
2800.00	2799.06	2802.69	2802.31	4.91	5.50	161.51	-691.14	-341.67	831.00	820.66	80.40
2900.00	2898.89	2902.95	2902.45	5.13	5.75	163.35	-690.89	-336.70	834.26	823.47	77.32
3000.00	2998.69	3007.02	3006.36	5.35	6.01	162.37	-690.58	-330.94	837.60	826.34	74.41
3100.00	3098.47	3107.05	3106.21	5.58	6.25	159.53	-690.28	-324.89	840.92	829.21	71.77
3200.00	3198.23	3211.84	3210.77	5.80	6.52	152.91	-689.90	-318.00	844.10	831.91	69.22
3300.00	3297.97	3323.95	3322.61	6.03	6.79	145.22	-688.37	-310.35	846.20	833.50	66.62
3400.00	3397.68	3436.27	3434.58	6.26	7.06	141.44	-685.25	-302.01	846.61	833.41	64.12
3500.00	3497.36	3542.10	3539.93	6.49	7.32	136.91	-681.68	-292.75	845.84	832.15	61.80
3600.00	3596.99	3639.98	3637.31	6.73	7.57	134.07	-678.46	-283.40	844.97	830.81	59.70
3700.00	3696.56	3732.99	3729.88	6.97	7.76	132.81	-676.05	-274.65	845.03	830.48	58.07
3800.00	3796.07	3826.79	3823.27	7.22	7.88	131.38	-674.32	-266.03	846.08	831.17	56.74
3900.00	3895.53	3920.44	3916.53	7.47	7.98	130.54	-673.24	-257.63	848.03	832.79	55.63
4000.00	3995.00	4013.53	4009.34	7.71	8.00	130.61	-672.45	-250.43	850.73	835.25	54.96
4100.00	4094.45	4106.07	4101.70	7.96	8.02	130.08	-671.79	-244.78	854.27	838.55	54.34
4200.00	4193.92	4196.63	4192.16	8.14	8.04	124.87	-671.41	-240.61	858.33	842.42	53.98
4300.00	4293.46	4282.76	4278.26	8.21	8.06	114.79	-671.59	-238.34	862.13	846.15	53.95
4400.00	4393.09	4379.89	4375.39	8.24	8.09	91.95	-672.28	-237.26	864.39	848.35	53.88
4500.00	4492.74	4481.15	4476.63	8.25	8.13	57.90	-672.94	-235.99	862.27	846.17	53.57
4600.00	4592.25	4581.68	4577.15	8.25	8.17	31.68	-673.46	-234.65	855.03	838.89	52.96
4700.00	4691.38	4678.26	4673.72	8.24	8.21	17.18	-674.04	-233.45	842.93	826.74	52.06
4800.00	4789.95	4776.93	4772.39	8.22	8.26	12.76	-674.82	-232.31	826.72	810.44	50.79
4900.00	4888.43	4876.10	4871.55	8.22	8.32	12.93	-675.54	-230.99	809.80	793.39	49.35
5000.00	4986.91	4973.23	4968.66	8.23	8.37	13.11	-676.27	-229.84	792.98	776.42	47.89
5100.00	5085.39	5073.33	5068.76	8.26	8.44	13.32	-676.88	-228.92	776.17	759.45	46.41



Weatherford International Ltd.

Anticollision Report



Weatherford

Company: Occidental Permian Ltd. Date: 12/27/2012 Time: 13:25:46 Page: 5
 Field: Eddy Co. NM (Nad 27)
 Reference Site: Lost Tank 4 Fed #22 Co-ordinate(N/E) Reference: Well: LT 4 Fed #22. Grid North
 Reference Well: LT 4 Fed #22 Vertical (TVD) Reference: SITE 3479.3
 Reference Wellpath: ST-01 Db: Sybase

Site: Exist. Lost Tank 4 #9
 Well: LT 4 #9
 Wellpath: 1 V0

Inter-Site Error: 0.00 ft

Reference MD	Reference TVD	Offset MD	Offset TVD	Semi-Major Axis Ref	Semi-Major Axis Offset	TFO-HS deg	Offset Location North	Offset Location East	Ctr-Ctr Distance	Edge Distance	Separation Factor	Warning
5200.00	5183.87	5172.60	5168.02	8.30	8.51	13.57	-677.14	-228.24	759.17	742.28	44.93	
5300.00	5282.35	5270.93	5266.35	8.35	8.59	13.83	-677.36	-227.63	742.19	725.10	43.44	
5400.00	5380.83	5369.27	5364.69	8.42	8.66	14.10	-677.63	-226.97	725.24	707.95	41.95	
5500.00	5479.31	5467.21	5462.63	8.56	8.75	14.38	-677.94	-226.32	708.35	690.85	40.48	
5600.00	5577.79	5565.55	5560.97	8.71	8.83	14.70	-678.20	-225.91	691.55	673.83	39.02	
5700.00	5676.27	5664.55	5659.97	8.88	8.92	15.03	-678.46	-225.41	674.72	656.77	37.57	
5800.00	5774.66	5762.12	5757.53	9.07	9.01	21.24	-678.77	-224.88	657.62	639.43	36.16	
5900.00	5872.34	5859.71	5855.12	9.29	9.11	30.51	-679.11	-224.48	638.46	620.02	34.63	
6000.00	5968.97	5956.64	5952.05	9.55	9.21	37.84	-679.28	-224.31	617.10	598.36	32.92	
6100.00	6064.29	6052.45	6047.86	9.86	9.31	44.20	-679.42	-224.09	593.90	574.77	31.06	
6200.00	6158.04	6145.26	6140.67	10.24	9.41	50.14	-679.65	-223.79	569.50	549.90	29.06	
6300.00	6250.15	6236.60	6232.01	10.69	9.51	54.79	-680.08	-223.55	544.99	524.81	27.00	
6400.00	6341.97	6328.18	6323.59	11.17	9.62	58.07	-680.63	-223.33	522.09	501.24	25.05	
6500.00	6433.79	6419.84	6415.25	11.69	9.73	61.60	-681.25	-223.16	501.25	479.70	23.26	
6600.00	6525.61	6512.11	6507.51	12.23	9.84	65.42	-681.85	-223.08	482.73	460.43	21.65	
6700.00	6617.43	6605.19	6600.59	12.80	9.95	69.53	-682.35	-222.88	466.58	443.51	20.22	
6800.00	6709.25	6696.51	6691.91	13.38	10.07	73.80	-682.78	-222.69	453.21	429.35	18.99	
6900.00	6801.07	6788.29	6783.69	13.98	10.18	78.28	-683.24	-222.64	443.05	418.39	17.97	
7000.00	6892.89	6880.80	6876.19	14.60	10.31	82.92	-683.90	-222.44	436.10	410.67	17.15	
7100.00	6984.71	6972.99	6968.38	15.22	10.43	87.64	-684.57	-222.17	432.51	406.34	16.53	
7200.00	7076.53	7064.76	7060.15	15.87	10.55	92.40	-685.08	-221.96	432.42	405.57	16.10	
7300.00	7168.35	7156.49	7151.88	16.52	10.68	97.11	-685.68	-221.84	435.94	408.47	15.87	
7400.00	7260.17	7250.19	7245.58	17.18	10.81	101.80	-686.47	-221.56	442.73	414.71	15.80	
7500.00	7351.99	7342.95	7338.33	17.84	10.94	106.27	-687.47	-221.02	452.48	423.98	15.88	
7600.00	7443.81	7435.02	7430.39	18.52	11.08	110.51	-688.55	-220.50	465.23	436.32	16.09	
7700.00	7535.63	7526.62	7521.98	19.20	11.22	114.50	-689.71	-220.11	480.82	451.53	16.42	
7800.00	7627.45	7617.98	7613.33	19.89	11.36	118.22	-690.98	-219.90	499.03	469.31	16.79	
7900.00	7719.27	7709.75	7705.09	20.58	11.50	121.69	-692.47	-219.97	519.61	489.49	17.25	
8000.00	7811.09	7803.11	7798.44	21.27	11.64	124.96	-694.04	-219.99	542.05	511.56	17.78	
8100.00	7902.91	7893.34	7888.66	21.98	11.77	127.90	-695.39	-219.98	566.21	535.37	18.36	
8200.00	7994.73	7983.00	7978.31	22.68	11.91	130.64	-696.23	-220.24	592.35	561.19	19.01	
8300.00	8086.55	8074.73	8070.03	23.39	12.05	133.22	-696.92	-220.62	620.02	588.55	19.70	
8400.00	8178.37	8106.00	8101.31	24.10	12.10	134.06	-697.14	-220.76	651.73	619.78	20.40	
8500.00	8270.19	8106.00	8101.31	24.82	12.10	134.06	-697.14	-220.76	695.76	663.27	21.41	
8600.00	8362.01	8106.00	8101.31	25.53	12.10	134.06	-697.14	-220.76	750.62	717.57	22.71	
8700.00	8453.83	8106.00	8101.31	26.25	12.10	134.06	-697.14	-220.76	814.11	780.50	24.22	
8800.00	8545.65	8106.00	8101.31	26.97	12.10	134.06	-697.14	-220.76	884.37	850.20	25.88	
8900.00	8637.47	8106.00	8101.31	27.70	12.10	134.06	-697.14	-220.76	959.92	925.19	27.64	
9000.00	8729.29	8106.00	8101.31	28.42	12.10	134.06	-697.14	-220.76	1039.61	1004.31	29.46	
9100.00	8821.11	8106.00	8101.31	29.15	12.10	134.06	-697.14	-220.76	1122.55	1086.69	31.30	
9200.00	8912.93	8106.00	8101.31	29.88	12.10	134.06	-697.14	-220.76	1208.08	1171.66	33.16	
9300.00	9004.75	8106.00	8101.31	30.61	12.10	134.06	-697.14	-220.76	1295.69	1258.69	35.02	
9400.00	9096.57	8106.00	8101.31	31.34	12.10	134.06	-697.14	-220.76	1384.97	1347.40	36.86	
9500.00	9188.39	8106.00	8101.31	32.08	12.10	134.06	-697.14	-220.76	1475.63	1437.49	38.69	
9600.00	9280.21	8106.00	8101.31	32.81	12.10	134.06	-697.14	-220.76	1567.43	1528.71	40.49	
9700.00	9372.03	8106.00	8101.31	33.55	12.10	134.06	-697.14	-220.76	1660.17	1620.88	42.25	
9800.00	9463.85	8106.00	8101.31	34.28	12.10	134.06	-697.14	-220.76	1753.71	1713.84	43.99	
9900.00	9555.67	8106.00	8101.31	35.02	12.10	134.06	-697.14	-220.76	1847.93	1807.49	45.69	
10000.00	9647.49	8106.00	8101.31	35.76	12.10	134.06	-697.14	-220.76	1942.73	1901.70	47.36	
10100.00	9739.30	8106.00	8101.31	36.50	12.10	134.06	-697.14	-220.76	2038.02	1996.42	48.99	
10200.00	9831.12	8106.00	8101.31	37.24	12.10	134.06	-697.14	-220.76	2133.74	2091.56	50.58	



Weatherford International Ltd.

Anticollision Report



Weatherford

Company: Occidental Permian Ltd. Date: 12/27/2012 Time: 13:25:46 Page: 6
 Field: Eddy Co, NM (Nad 27)
 Reference Site: Lost Tank 4 Fed #22 Co-ordinate(NE) Reference: Well: LT 4 Fed #22, Grid North
 Reference Well: LT 4 Fed #22 Vertical (TVD) Reference: SITE 3479.3
 Reference Wellpath: ST 01 Db: Sybase

Site: Exist. Lost Tank 4 #9
 Well: LT 4 #9
 Wellpath: 1 VO

Inter-Site Error: 0.00 ft

Reference		Offset		Semi-Major Axis		Offset Location		Ctr-Ctr Edge		Separation		Warning
MD	TVD	MD	TVD	Ref	Offset	TFO-HS	North	East	Distance	Distance	Factor	
ft	ft	ft	ft	ft	ft	deg	ft	ft	ft	ft		
10300.00	9922.94	8106.00	8101.31	37.98	12.10	134.06	-697.14	-220.76	2229.84	2187.08	52.14	
10400.00	10014.76	8106.00	8101.31	38.73	12.10	134.06	-697.14	-220.76	2326.27	2282.93	53.67	
10500.00	10106.58	8106.00	8101.31	39.47	12.10	134.06	-697.14	-220.76	2422.99	2379.06	55.16	
10600.00	10198.40	8106.00	8101.31	40.21	12.10	134.06	-697.14	-220.76	2519.97	2475.45	56.61	
10700.00	10290.22	8106.00	8101.31	40.96	12.10	134.06	-697.14	-220.76	2617.17	2572.07	58.03	
10800.00	10382.04	8106.00	8101.31	41.70	12.10	134.06	-697.14	-220.76	2714.57	2668.89	59.42	
10900.00	10473.86	8106.00	8101.31	42.45	12.10	134.06	-697.14	-220.76	2812.16	2765.89	60.78	
11000.00	10565.68	8106.00	8101.31	43.19	12.10	134.06	-697.14	-220.76	2909.91	2863.06	62.11	
11100.00	10657.50	8106.00	8101.31	43.94	12.10	134.06	-697.14	-220.76	3007.81	2960.37	63.40	
11200.00	10749.32	8106.00	8101.31	44.69	12.10	134.06	-697.14	-220.76	3105.84	3057.82	64.67	
11300.00	10841.14	8106.00	8101.31	45.43	12.10	134.06	-697.14	-220.76	3204.00	3155.38	65.91	
11400.00	10932.96	8106.00	8101.31	46.18	12.10	134.06	-697.14	-220.76	3302.26	3253.06	67.11	
11500.00	11024.78	8106.00	8101.31	46.93	12.10	134.06	-697.14	-220.76	3400.63	3350.84	68.30	
11600.00	11116.60	8106.00	8101.31	47.68	12.10	134.06	-697.14	-220.76	3499.09	3448.71	69.45	
11700.00	11208.42	8106.00	8101.31	48.43	12.10	134.06	-697.14	-220.76	3597.63	3546.66	70.58	
11800.00	11300.24	8106.00	8101.31	49.18	12.10	134.06	-697.14	-220.76	3696.26	3644.69	71.69	
11900.00	11392.06	8106.00	8101.31	49.93	12.10	134.06	-697.14	-220.76	3794.95	3742.80	72.77	
12000.00	11483.88	8106.00	8101.31	50.68	12.10	134.06	-697.14	-220.76	3893.71	3840.97	73.83	
12100.00	11575.70	8106.00	8101.31	51.43	12.10	134.06	-697.14	-220.76	3992.53	3939.20	74.86	
12200.00	11667.52	8106.00	8101.31	52.18	12.10	134.06	-697.14	-220.76	4091.41	4037.49	75.87	
12300.00	11759.34	8106.00	8101.31	52.93	12.10	134.06	-697.14	-220.76	4190.35	4135.83	76.86	
12400.00	11851.16	8106.00	8101.31	53.68	12.10	134.06	-697.14	-220.76	4289.33	4234.22	77.83	
12500.00	11942.98	8106.00	8101.31	54.43	12.10	134.06	-697.14	-220.76	4388.36	4332.66	78.78	
12600.00	12034.80	8106.00	8101.31	55.18	12.10	134.06	-697.14	-220.76	4487.43	4431.14	79.71	
12700.00	12126.62	8106.00	8101.31	55.93	12.10	134.06	-697.14	-220.76	4586.54	4529.65	80.63	
12800.00	12218.44	8106.00	8101.31	56.69	12.10	134.06	-697.14	-220.76	4685.69	4628.21	81.52	
12900.00	12310.26	8106.00	8101.31	57.44	12.10	134.06	-697.14	-220.76	4784.88	4726.80	82.39	

Site: Exist. Lost Tank 4 Fed #14
 Well: LT 4 #14
 Wellpath: 1 VO

Inter-Site Error: 0.00 ft

Reference		Offset		Semi-Major Axis		Offset Location		Ctr-Ctr Edge		Separation		Warning
MD	TVD	MD	TVD	Ref	Offset	TFO-HS	North	East	Distance	Distance	Factor	
ft	ft	ft	ft	ft	ft	deg	ft	ft	ft	ft		
100.00	100.00	648.80	648.75	0.10	0.00	208.46	-1269.23	234.05	1405.09	1404.99	14087.02	
200.00	200.00	648.80	648.75	0.36	0.00	190.42	-1269.23	234.05	1369.05	1368.68	3773.05	
300.00	299.99	648.80	648.75	0.63	0.00	189.00	-1269.23	234.05	1340.01	1339.38	2139.29	
400.00	399.99	648.80	648.75	0.89	0.00	201.74	-1269.23	234.05	1318.24	1317.35	1479.62	
500.00	499.98	648.80	648.75	1.16	0.00	201.63	-1269.23	234.05	1303.92	1302.76	1127.98	
600.00	599.96	648.80	648.75	1.42	0.00	186.13	-1269.23	234.05	1297.54	1296.12	913.75	
700.00	699.94	704.57	704.52	1.58	0.06	164.57	-1268.83	234.38	1297.98	1296.33	788.91	
800.00	799.92	802.82	802.76	1.65	0.27	157.51	-1267.97	234.55	1299.07	1297.16	677.42	
900.00	899.90	900.20	900.14	1.70	0.47	156.60	-1267.37	234.50	1300.36	1298.19	599.14	
1000.00	999.88	998.59	998.53	1.78	0.67	157.19	-1266.88	234.80	1301.71	1299.26	531.95	
1100.00	1099.86	1099.09	1099.03	1.87	0.88	157.35	-1266.41	235.03	1302.95	1300.20	474.20	
1200.00	1199.85	1195.91	1195.85	1.98	1.09	156.92	-1266.06	235.23	1304.32	1301.27	426.30	
1300.00	1299.83	1294.57	1294.51	2.11	1.29	155.74	-1265.88	235.65	1305.96	1302.57	384.86	
1400.00	1399.81	1394.89	1394.83	2.25	1.51	153.82	-1265.72	235.89	1307.51	1303.77	349.17	
1500.00	1499.80	1494.91	1494.85	2.40	1.72	153.85	-1265.59	235.98	1308.99	1304.88	318.33	
1600.00	1599.78	1595.20	1595.13	2.56	1.93	154.83	-1265.44	236.09	1310.54	1306.07	292.77	
1700.00	1699.76	1694.11	1694.04	2.72	2.13	155.72	-1265.23	236.51	1312.16	1307.32	271.12	
1800.00	1799.74	1791.83	1791.76	2.89	2.33	151.21	-1265.12	237.31	1313.96	1308.75	252.38	



Weatherford International Ltd.

Anticollision Report



Weatherford

Company: Occidental Permian Ltd. Date: 12/27/2012 Time: 13:25:46 Page: 7
 Field: Eddy Co NM (Nad 27)
 Reference Site: Lost Tank 4 Fed #22
 Reference Well: LT 4 Fed #22 Co-ordinate(NE) Reference: Well LT 4 Fed #22 Grid North
 Reference Wellpath: ST-01 Vertical (TVD) Reference: SITE 3479.3
 Db: Sybase

Site: Exist. Lost Tank 4 Fed #14
 Well: LT 4 #14
 Wellpath: 1 V0

Inter-Site Error: 0.00 ft

Reference MD	Reference TVD	Offset MD	Offset TVD	Semi-Major Axis Ref	Offset	TFO-HS	North	East	Ctr-Ctr Distance	Edge Distance	Separation Factor	Warning
ft	ft	ft	ft	ft	ft	deg	ft	ft	ft	ft		
1900.00	1899.72	1891.07	1890.99	3.07	2.54	142.69	-1265.06	238.41	1315.98	1310.39	235.53	
2000.00	1999.68	1990.94	1990.86	3.26	2.75	139.20	-1265.02	239.62	1318.09	1312.11	220.23	
2100.00	2099.65	2091.72	2091.63	3.45	2.96	136.04	-1264.98	240.76	1320.15	1313.76	206.73	
2200.00	2199.61	2193.71	2193.61	3.65	3.17	133.09	-1264.80	242.04	1322.13	1315.33	194.54	
2300.00	2299.57	2297.88	2297.77	3.85	3.39	130.56	-1264.34	243.42	1323.96	1316.75	183.57	
2400.00	2399.51	2396.23	2396.12	4.05	3.60	128.07	-1263.79	244.61	1325.77	1318.15	173.93	
2500.00	2499.44	2496.47	2496.36	4.26	3.81	126.42	-1263.49	245.33	1327.88	1319.84	165.26	
2600.00	2599.34	2601.59	2601.47	4.47	4.03	125.91	-1262.99	245.34	1329.99	1321.52	157.04	
2700.00	2699.22	2702.97	2702.85	4.69	4.24	125.16	-1262.30	245.11	1332.21	1323.31	149.79	
2800.00	2799.06	2805.90	2805.77	4.91	4.46	125.85	-1261.43	244.91	1334.54	1325.22	143.12	
2900.00	2898.89	2902.56	2902.43	5.13	4.66	128.06	-1260.50	244.57	1337.11	1327.37	137.29	
3000.00	2998.69	2991.48	2991.35	5.35	4.85	127.52	-1260.34	243.68	1340.67	1330.53	132.12	
3100.00	3098.47	3086.58	3086.43	5.58	5.05	125.18	-1260.93	242.16	1344.94	1334.38	127.30	
3200.00	3198.23	3188.00	3187.84	5.80	5.26	119.07	-1261.41	241.03	1348.96	1337.96	122.65	
3300.00	3297.97	3278.31	3278.15	6.03	5.45	111.81	-1262.09	240.37	1352.72	1341.31	118.55	
3400.00	3397.68	3371.15	3370.97	6.26	5.64	108.40	-1263.36	239.81	1356.58	1344.76	114.70	
3500.00	3497.36	3467.33	3467.14	6.49	5.84	104.29	-1265.06	239.27	1360.50	1348.24	111.02	
3600.00	3596.99	3571.01	3570.81	6.73	6.05	101.89	-1266.75	239.09	1364.04	1351.33	107.33	
3700.00	3696.56	3677.64	3677.42	6.97	6.28	101.06	-1267.98	239.54	1367.09	1353.91	103.76	
3800.00	3796.07	3781.12	3780.90	7.22	6.49	100.02	-1268.63	240.56	1369.63	1355.99	100.39	
3900.00	3895.53	3885.43	3885.20	7.47	6.72	99.56	-1269.02	241.77	1371.89	1357.78	97.20	
4000.00	3995.00	3993.05	3992.81	7.71	6.94	99.96	-1268.89	243.07	1373.66	1359.09	94.24	
4100.00	4094.45	4102.90	4102.66	7.96	7.18	99.71	-1268.08	243.56	1374.77	1359.73	91.36	
4200.00	4193.92	4200.97	4200.72	8.14	7.38	94.68	-1267.08	243.33	1375.17	1359.74	89.12	
4300.00	4293.46	4300.82	4300.56	8.21	7.59	84.67	-1266.15	243.04	1374.19	1358.48	87.48	
4400.00	4393.09	4396.40	4396.14	8.24	7.79	61.68	-1265.18	243.11	1370.84	1354.90	86.02	
4500.00	4492.74	4474.07	4473.81	8.25	7.95	27.28	-1265.27	243.04	1365.02	1348.90	84.65	
4600.00	4592.25	4565.18	4564.92	8.25	8.14	0.69	-1266.65	242.62	1357.01	1340.68	83.12	
4700.00	4691.38	4668.89	4668.61	8.24	8.36	345.72	-1268.12	242.00	1345.37	1328.83	81.33	
4800.00	4789.95	4772.78	4772.49	8.22	8.58	340.85	-1269.24	241.13	1330.35	1313.57	79.30	
4900.00	4888.43	4871.96	4871.66	8.22	8.79	340.65	-1270.09	240.05	1314.70	1297.67	77.20	
5000.00	4986.91	4969.55	4969.24	8.23	8.99	340.45	-1270.96	238.89	1299.09	1281.80	75.15	
5100.00	5085.39	5062.94	5062.62	8.26	9.18	340.26	-1271.93	237.84	1283.65	1266.11	73.18	
5200.00	5183.87	5135.99	5135.64	8.30	9.33	340.12	-1273.69	236.77	1269.54	1251.78	71.49	
5300.00	5282.35	5217.46	5217.00	8.35	9.51	340.01	-1277.16	234.58	1257.17	1239.17	69.85	
5400.00	5380.83	5314.13	5313.45	8.42	9.71	339.95	-1282.26	230.42	1245.68	1227.40	68.13	
5500.00	5479.31	5411.35	5410.40	8.56	9.92	339.94	-1287.52	225.45	1234.26	1215.68	66.43	
5600.00	5577.79	5500.42	5499.10	8.71	10.11	339.99	-1292.92	219.45	1223.35	1204.49	64.85	
5700.00	5676.27	5583.38	5581.57	8.88	10.30	340.10	-1298.95	212.70	1213.54	1194.40	63.41	
5800.00	5774.66	5672.21	5669.74	9.07	10.50	345.91	-1306.48	205.07	1204.25	1184.86	62.08	
5900.00	5872.34	5757.59	5754.31	9.29	10.70	354.33	-1314.60	196.66	1191.80	1172.17	60.72	
6000.00	5968.97	5837.96	5833.64	9.55	10.89	0.44	-1323.39	187.22	1176.05	1156.20	59.25	
6100.00	6064.29	5916.69	5911.06	9.86	11.09	5.20	-1333.29	176.87	1157.36	1137.28	57.65	
6200.00	6158.04	5991.07	5983.71	10.24	11.29	9.18	-1343.93	165.05	1135.98	1115.68	55.96	
6300.00	6250.15	6060.97	6051.61	10.69	11.49	11.57	-1355.35	153.02	1112.94	1092.36	54.07	
6400.00	6341.97	6132.00	6119.88	11.17	11.70	12.66	-1368.64	138.64	1092.04	1071.07	52.07	
6500.00	6433.79	6213.69	6197.77	11.69	11.97	14.03	-1385.12	120.33	1073.44	1052.01	50.09	
6600.00	6525.61	6280.54	6261.06	12.23	12.22	15.24	-1399.40	104.25	1057.09	1035.29	48.47	
6700.00	6617.43	6355.19	6330.73	12.80	12.51	16.74	-1416.93	83.98	1044.12	1021.87	46.94	
6800.00	6709.25	6448.74	6417.67	13.38	12.89	18.69	-1439.42	57.75	1033.14	1010.32	45.28	
6900.00	6801.07	6555.93	6517.80	13.98	13.32	20.92	-1464.41	28.78	1022.64	999.13	43.49	



Weatherford International Ltd.

Anticollision Report



Weatherford

Company: Occidental Permian Ltd. Date: 12/27/2012 Time: 13:25:46 Page: 8
 Field: Eddy Co. NM (Nad 27)
 Reference Site: Lost Tank 4 Fed #22 Co-ordinate(NE) Reference: Well: LT 4 Fed #22, Grid North
 Reference Well: LT 4 Fed #22 Vertical (TVD) Reference: SITE 3479.3
 Reference Wellpath: ST-01 Db: Sybase

Site: Exist. Lost Tank 4 Fed #14
 Well: LT 4 #14
 Wellpath: 1 VO

Inter-Site Error: 0.00 ft

Reference MD	Reference TVD	Offset MD	Offset TVD	Semi-Major Axis Ref	Offset	TFO-HS	Offset Location North	Offset Location East	Ctr-Ctr Distance	Edge Distance	Separation Factor	Warning
ft	ft	ft	ft	ft	ft	deg	ft	ft	ft	ft		
7000.00	6892.89	6673.53	6628.68	14.60	13.77	23.33	-1489.86	-0.99	1011.50	987.19	41.61	
7100.00	6984.71	6753.28	6704.05	15.22	14.12	24.98	-1506.77	-20.84	1001.13	976.21	40.16	
7200.00	7076.53	6836.66	6782.47	15.87	14.48	26.75	-1525.31	-42.24	993.24	967.68	38.86	
7300.00	7168.35	6928.24	6868.67	16.52	14.90	28.67	-1546.32	-64.92	987.08	960.76	37.51	
7400.00	7260.17	7027.58	6962.40	17.18	15.34	30.72	-1569.29	-88.52	982.02	954.90	36.21	
7500.00	7351.99	7120.82	7050.54	17.84	15.76	32.64	-1590.52	-110.28	977.76	949.84	35.02	
7600.00	7443.81	7195.05	7120.63	18.52	16.11	34.13	-1608.22	-127.13	975.54	946.97	34.14	
7700.00	7535.63	7256.44	7178.00	19.20	16.41	35.36	-1624.65	-141.53	977.37	948.24	33.55	
7800.00	7627.45	7341.95	7257.30	19.89	16.87	37.04	-1649.18	-162.02	982.33	952.40	32.81	
7900.00	7719.27	7446.56	7354.38	20.58	17.43	39.05	-1679.31	-186.76	988.35	957.42	31.95	
8000.00	7811.09	7557.35	7457.73	21.27	18.01	41.14	-1710.14	-212.10	994.24	962.21	31.05	
8100.00	7902.91	7668.16	7561.78	21.98	18.58	43.22	-1739.32	-236.64	999.49	966.35	30.16	
8200.00	7994.73	7772.41	7660.14	22.68	19.11	45.17	-1765.50	-259.15	1004.48	970.26	29.35	
8300.00	8086.55	7865.49	7748.06	23.39	19.58	46.88	-1788.85	-278.85	1010.27	975.04	28.68	
8400.00	8178.37	7964.07	7841.21	24.10	20.09	48.64	-1813.80	-299.33	1016.99	980.67	28.01	
8500.00	8270.19	8074.49	7945.82	24.82	20.66	50.58	-1841.18	-321.68	1023.97	986.45	27.29	
8600.00	8362.01	8150.00	8017.66	25.53	21.05	51.91	-1859.05	-336.55	1030.89	992.39	26.78	
8700.00	8453.83	8150.00	8017.66	26.25	21.05	51.91	-1859.05	-336.55	1044.84	1005.85	26.80	
8800.00	8545.65	8150.00	8017.66	26.97	21.05	51.91	-1859.05	-336.55	1068.01	1028.46	27.00	
8900.00	8637.47	8150.00	8017.66	27.70	21.05	51.91	-1859.05	-336.55	1099.82	1059.64	27.38	
9000.00	8729.29	8150.00	8017.66	28.42	21.05	51.91	-1859.05	-336.55	1139.54	1098.73	27.93	
9100.00	8821.11	8150.00	8017.66	29.15	21.05	51.91	-1859.05	-336.55	1186.38	1144.94	28.63	
9200.00	8912.93	8150.00	8017.66	29.88	21.05	51.91	-1859.05	-336.55	1239.54	1197.44	29.45	
9300.00	9004.75	8150.00	8017.66	30.61	21.05	51.91	-1859.05	-336.55	1298.23	1255.48	30.37	
9400.00	9096.57	8150.00	8017.66	31.34	21.05	51.91	-1859.05	-336.55	1361.75	1318.33	31.36	
9500.00	9188.39	8150.00	8017.66	32.08	21.05	51.91	-1859.05	-336.55	1429.44	1385.35	32.42	
9600.00	9280.21	8150.00	8017.66	32.81	21.05	51.91	-1859.05	-336.55	1500.75	1455.99	33.52	
9700.00	9372.03	8150.00	8017.66	33.55	21.05	51.91	-1859.05	-336.55	1575.18	1529.74	34.66	
9800.00	9463.85	8150.00	8017.66	34.28	21.05	51.91	-1859.05	-336.55	1652.32	1606.18	35.82	
9900.00	9555.67	8150.00	8017.66	35.02	21.05	51.91	-1859.05	-336.55	1731.79	1684.97	36.99	
10000.00	9647.49	8150.00	8017.66	35.76	21.05	51.91	-1859.05	-336.55	1813.30	1765.79	38.16	
10100.00	9739.30	8150.00	8017.66	36.50	21.05	51.91	-1859.05	-336.55	1896.58	1848.37	39.34	
10200.00	9831.12	8150.00	8017.66	37.24	21.05	51.91	-1859.05	-336.55	1981.40	1932.50	40.52	
10300.00	9922.94	8150.00	8017.66	37.98	21.05	51.91	-1859.05	-336.55	2067.59	2017.98	41.68	
10400.00	10014.76	8150.00	8017.66	38.73	21.05	51.91	-1859.05	-336.55	2154.96	2104.66	42.84	
10500.00	10106.58	8150.00	8017.66	39.47	21.05	51.91	-1859.05	-336.55	2243.39	2192.39	43.99	
10600.00	10198.40	8150.00	8017.66	40.21	21.05	51.91	-1859.05	-336.55	2332.76	2281.06	45.12	
10700.00	10290.22	8150.00	8017.66	40.96	21.05	51.91	-1859.05	-336.55	2422.96	2370.56	46.24	
10800.00	10382.04	8150.00	8017.66	41.70	21.05	51.91	-1859.05	-336.55	2513.89	2460.80	47.35	
10900.00	10473.86	8150.00	8017.66	42.45	21.05	51.91	-1859.05	-336.55	2605.50	2551.71	48.44	
11000.00	10565.68	8150.00	8017.66	43.19	21.05	51.91	-1859.05	-336.55	2697.70	2643.21	49.51	
11100.00	10657.50	8150.00	8017.66	43.94	21.05	51.91	-1859.05	-336.55	2790.43	2735.25	50.57	
11200.00	10749.32	8150.00	8017.66	44.69	21.05	51.91	-1859.05	-336.55	2883.66	2827.78	51.61	
11300.00	10841.14	8150.00	8017.66	45.43	21.05	51.91	-1859.05	-336.55	2977.32	2920.75	52.63	
11400.00	10932.96	8150.00	8017.66	46.18	21.05	51.91	-1859.05	-336.55	3071.38	3014.12	53.64	
11500.00	11024.78	8150.00	8017.66	46.93	21.05	51.91	-1859.05	-336.55	3165.81	3107.85	54.63	
11600.00	11116.60	8150.00	8017.66	47.68	21.05	51.91	-1859.05	-336.55	3260.56	3201.92	55.60	
11700.00	11208.42	8150.00	8017.66	48.43	21.05	51.91	-1859.05	-336.55	3355.63	3296.30	56.56	
11800.00	11300.24	8150.00	8017.66	49.18	21.05	51.91	-1859.05	-336.55	3450.97	3390.95	57.50	
11900.00	11392.06	8150.00	8017.66	49.93	21.05	51.91	-1859.05	-336.55	3546.57	3485.86	58.42	
12000.00	11483.88	8150.00	8017.66	50.68	21.05	51.91	-1859.05	-336.55	3642.40	3581.01	59.33	



Weatherford International Ltd.

Anticollision Report



Weatherford

Company: Occidental Permian Ltd. Date: 12/27/2012 Time: 13:25:46 Page: 9
 Field: Eddy Co, NM (Nad 27)
 Reference Site: Lost Tank 4 Fed #22 Co-ordinate(NE) Reference: Well: LT 4 Fed #22, Grid North
 Reference Well: LT 4 Fed #22 Vertical (TVD) Reference: SITE 3479.3
 Reference Wellpath: ST.01 Db: Sybase

Site: Exist. Lost Tank 4 Fed #14
 Well: LT 4 #14
 Wellpath: 1 V0

Inter-Site Error: 0.00 ft

Reference		Offset		Semi-Major Axis			Offset Location		Ctr-Ctr	Edge	Separation	Warning
MD	TVD	MD	TVD	Ref	Offset	TFO-HS	North	East	Distance	Distance	Factor	
ft	ft	ft	ft	ft	ft	deg	ft	ft	ft	ft		
12100.00	11575.70	8150.00	8017.66	51.43	21.05	51.91	-1859.05	-336.55	3738.45	3676.38	60.23	
12200.00	11667.52	8150.00	8017.66	52.18	21.05	51.91	-1859.05	-336.55	3834.71	3771.96	61.11	
12300.00	11759.34	8150.00	8017.66	52.93	21.05	51.91	-1859.05	-336.55	3931.15	3867.72	61.97	
12400.00	11851.16	8150.00	8017.66	53.68	21.05	51.91	-1859.05	-336.55	4027.76	3963.65	62.83	
12500.00	11942.98	8150.00	8017.66	54.43	21.05	51.91	-1859.05	-336.55	4124.54	4059.75	63.66	
12600.00	12034.80	8150.00	8017.66	55.18	21.05	51.91	-1859.05	-336.55	4221.47	4156.00	64.48	
12700.00	12126.62	8150.00	8017.66	55.93	21.05	51.91	-1859.05	-336.55	4318.53	4252.39	65.29	
12800.00	12218.44	8150.00	8017.66	56.69	21.05	51.91	-1859.05	-336.55	4415.73	4348.92	66.09	
12900.00	12310.26	8150.00	8017.66	57.44	21.05	51.91	-1859.05	-336.55	4513.05	4445.57	66.87	

Site: Exist. Lost Tank 4 Fed #17
 Well: LT 4 #17
 Wellpath: 1 V0

Inter-Site Error: 0.00 ft

Reference		Offset		Semi-Major Axis		Offset Location		Ctr-Ctr	Edge	Separation	Warning	
MD	TVD	MD	TVD	Ref	Offset	TFO-HS	North	East	Distance	Distance		Factor
ft	ft	ft	ft	ft	ft	deg	ft	ft	ft	ft		
100.00	100.00	88.12	88.12	0.10	0.10	211.03	-1272.17	176.63	1284.48	1284.29	6521.63	
200.00	200.00	184.84	184.84	0.36	0.34	192.97	-1272.68	177.05	1285.47	1284.77	1839.26	
300.00	299.99	290.47	290.46	0.63	0.61	191.54	-1272.99	177.32	1286.69	1285.46	1044.02	
400.00	399.99	388.06	388.06	0.89	0.83	204.31	-1273.27	177.33	1288.19	1286.47	747.51	
500.00	499.98	487.43	487.43	1.16	1.05	204.19	-1273.72	177.17	1289.95	1287.75	585.50	
600.00	599.96	587.35	587.34	1.42	1.26	188.67	-1274.17	176.86	1292.05	1289.37	481.34	
700.00	699.94	686.93	686.92	1.58	1.47	167.13	-1274.66	176.59	1294.41	1291.36	424.35	
800.00	799.92	786.35	786.34	1.65	1.59	160.11	-1275.24	175.95	1296.86	1293.62	399.98	
900.00	899.90	892.73	892.71	1.70	1.63	159.26	-1275.66	174.88	1299.05	1295.72	389.81	
1000.00	999.88	992.87	992.85	1.78	1.69	159.91	-1275.76	173.79	1300.81	1297.34	375.06	
1100.00	1099.86	1091.82	1091.79	1.87	1.77	160.11	-1275.93	172.86	1302.55	1298.91	358.15	
1200.00	1199.85	1191.64	1191.61	1.98	1.87	159.73	-1276.10	172.19	1304.36	1300.51	339.47	
1300.00	1299.83	1289.51	1289.48	2.11	1.99	158.59	-1276.35	171.57	1306.30	1302.21	319.67	
1400.00	1399.81	1388.58	1388.54	2.25	2.12	156.71	-1276.74	170.89	1308.29	1303.94	300.26	
1500.00	1499.80	1487.87	1487.83	2.40	2.26	156.75	-1277.11	170.61	1310.27	1305.61	281.76	
1600.00	1599.78	1586.24	1586.20	2.56	2.41	157.74	-1277.56	170.46	1312.41	1307.46	264.70	
1700.00	1699.76	1688.16	1688.12	2.72	2.58	158.65	-1278.00	170.45	1314.62	1309.34	248.68	
1800.00	1799.74	1785.92	1785.88	2.89	2.75	154.16	-1278.31	170.84	1316.80	1311.18	234.27	
1900.00	1899.72	1889.23	1889.18	3.07	2.93	145.63	-1278.80	172.11	1319.38	1313.40	220.76	
2000.00	1999.68	2014.12	2014.06	3.26	3.15	142.17	-1277.51	172.81	1320.37	1313.98	206.75	
2100.00	2099.65	2094.64	2094.56	3.45	3.30	139.00	-1276.66	173.79	1321.46	1314.74	196.56	
2200.00	2199.61	2188.55	2188.44	3.65	3.47	135.97	-1276.65	176.32	1323.81	1316.72	186.65	
2300.00	2299.57	2293.31	2293.17	3.85	3.67	133.39	-1276.41	178.98	1326.04	1318.56	177.12	
2400.00	2399.51	2394.09	2393.91	4.05	3.86	130.84	-1275.98	181.65	1328.23	1320.35	168.52	
2500.00	2499.44	2499.88	2499.67	4.26	4.06	129.10	-1275.29	184.31	1330.33	1322.04	160.46	
2600.00	2599.34	2603.94	2603.71	4.47	4.26	128.51	-1274.32	185.90	1332.34	1323.64	153.20	
2700.00	2699.22	2708.27	2708.03	4.69	4.46	127.78	-1273.34	185.43	1334.45	1325.34	146.50	
2800.00	2799.06	2815.39	2815.13	4.91	4.67	128.52	-1271.93	183.96	1336.38	1326.85	140.24	
2900.00	2898.89	2919.24	2918.95	5.13	4.87	130.79	-1270.16	182.30	1338.29	1328.34	134.51	
3000.00	2998.69	3015.63	3015.32	5.35	5.07	130.27	-1268.41	180.97	1340.47	1330.11	129.40	
3100.00	3098.47	3108.45	3108.13	5.58	5.25	127.88	-1267.05	180.15	1343.07	1332.31	124.78	
3200.00	3198.23	3198.29	3197.95	5.80	5.43	121.73	-1266.35	179.26	1346.18	1335.02	120.56	
3300.00	3297.97	3287.99	3287.65	6.03	5.61	114.47	-1266.34	178.09	1349.47	1337.90	116.65	
3400.00	3397.68	3401.73	3401.37	6.26	5.84	111.17	-1266.78	176.44	1352.71	1340.69	112.54	
3500.00	3497.36	3550.33	3549.90	6.49	6.14	107.20	-1262.64	176.28	1352.45	1339.91	107.84	



Weatherford International Ltd.

Anticollision Report



Weatherford

Company: Occidental Permian Ltd. Date: 12/27/2012 Time: 13:25:46 Page: 10
 Field: Eddy Co, NM (Nad 27)
 Reference Site: Lost Tank 4 Fed #22 Co-ordinate(NE) Reference: Well: LT 4 Fed #22, Grid North
 Reference Well: LT 4 Fed #22 Vertical (TVD) Reference: SITE 3479.3
 Reference Wellpath: ST.01 Db: Sybase

Site: Exist. Lost Tank 4 Fed #17
 Well: LT 4 #17
 Wellpath: 1 V0

Inter-Site Error: 0.00 ft

Reference		Offset		Semi-Major Axis		Offset Location		Ctr-Ctr.	Edge	Separation	Warning	
MD	TVD	MD	TVD	Ref	Offset	TFO-HS	North	East	Distance	Distance		Factor
ft	ft	ft	ft	ft	ft	deg	ft	ft	ft	ft		
3600.00	3596.99	3654.30	3653.72	6.73	6.36	104.74	-1257.21	177.53	1349.67	1336.68	103.91	
3700.00	3696.56	3727.38	3726.75	6.97	6.51	103.79	-1254.44	177.75	1348.19	1334.80	100.68	
3800.00	3796.07	3800.23	3799.59	7.22	6.65	102.70	-1253.19	177.06	1348.67	1334.88	97.83	
3900.00	3895.53	3889.37	3888.70	7.47	6.83	102.31	-1253.16	175.22	1350.71	1336.50	95.04	
4000.00	3995.00	3985.06	3984.36	7.71	7.02	102.82	-1253.37	172.72	1353.06	1338.43	92.43	
4100.00	4094.45	4070.52	4069.77	7.96	7.20	102.61	-1254.04	169.73	1356.05	1341.01	90.11	
4200.00	4193.92	4148.13	4147.29	8.14	7.35	97.63	-1255.73	166.54	1360.07	1344.69	88.43	
4300.00	4293.46	4221.37	4220.38	8.21	7.50	87.69	-1258.60	162.98	1364.39	1348.79	87.49	
4400.00	4393.09	4381.00	4379.56	8.24	7.84	65.33	-1262.25	154.28	1364.51	1348.57	85.60	
4500.00	4492.74	4434.88	4433.32	8.25	7.94	31.06	-1261.05	151.45	1358.77	1342.70	84.58	
4600.00	4592.25	4471.00	4469.28	8.25	8.02	4.58	-1263.90	149.97	1356.27	1340.16	84.18	
4700.00	4691.38	4513.15	4511.08	8.24	8.10	349.93	-1269.11	148.27	1354.55	1338.37	83.76	
4800.00	4789.95	4591.06	4588.17	8.22	8.27	345.41	-1279.64	144.37	1351.71	1335.40	82.85	
4900.00	4888.43	4667.37	4663.49	8.22	8.44	345.44	-1291.27	140.38	1350.17	1333.68	81.91	
5000.00	4986.91	4741.00	4735.94	8.23	8.61	345.48	-1303.66	136.10	1350.30	1333.64	81.05	
5100.00	5085.39	4811.51	4805.01	8.26	8.79	345.55	-1316.95	131.25	1352.50	1335.68	80.41	
5200.00	5183.87	4879.62	4871.35	8.30	8.96	345.64	-1331.44	125.93	1357.15	1340.16	79.90	
5300.00	5282.35	4951.85	4941.33	8.35	9.17	345.75	-1348.40	120.22	1364.03	1346.86	79.43	
5400.00	5380.83	5028.54	5015.27	8.42	9.39	345.87	-1367.69	113.76	1372.68	1355.29	78.95	
5500.00	5479.31	5101.00	5084.74	8.56	9.63	346.02	-1387.06	106.80	1383.06	1365.46	78.59	
5600.00	5577.79	5177.79	5157.87	8.71	9.90	346.23	-1408.87	98.27	1395.22	1377.39	78.26	
5700.00	5676.27	5248.89	5225.08	8.88	10.17	346.46	-1430.29	89.39	1409.26	1391.21	78.07	
5800.00	5774.66	5322.92	5294.52	9.07	10.47	352.20	-1453.94	79.40	1424.66	1406.40	77.99	
5900.00	5872.34	5394.92	5361.65	9.29	10.78	0.30	-1477.96	69.37	1437.83	1419.39	77.96	
6000.00	5968.97	5461.00	5422.68	9.55	11.09	5.96	-1501.45	59.94	1448.93	1430.34	77.94	
6100.00	6064.29	5551.00	5504.83	9.86	11.47	10.61	-1532.24	40.27	1455.53	1436.54	76.65	
6200.00	6158.04	5604.69	5553.13	10.24	11.78	14.05	-1551.15	26.51	1460.46	1441.48	76.91	
6300.00	6250.15	5641.00	5585.45	10.69	11.98	15.68	-1566.08	19.41	1466.39	1447.30	76.82	
6400.00	6341.97	5706.53	5643.13	11.17	12.37	16.33	-1595.08	8.19	1475.11	1455.69	75.93	
6500.00	6433.79	5776.40	5704.04	11.69	12.81	17.01	-1627.16	-3.77	1486.08	1466.28	75.05	
6600.00	6525.61	5849.61	5767.28	12.23	13.30	17.70	-1661.88	-16.20	1499.07	1478.86	74.16	
6700.00	6617.43	5924.43	5831.39	12.80	13.84	18.41	-1698.19	-29.19	1513.76	1493.11	73.29	
6800.00	6709.25	5990.68	5887.55	13.38	14.33	19.05	-1731.23	-41.22	1530.49	1509.43	72.67	
6900.00	6801.07	6050.06	5937.19	13.98	14.81	19.61	-1761.82	-52.40	1549.60	1528.16	72.27	
7000.00	6892.89	6120.32	5995.02	14.60	15.37	20.27	-1799.38	-65.86	1571.24	1549.33	71.71	
7100.00	6984.71	6210.29	6068.87	15.22	16.09	21.12	-1847.56	-83.75	1593.66	1571.12	70.70	
7200.00	7076.53	6287.18	6131.54	15.87	16.72	21.83	-1889.34	-99.18	1617.37	1594.27	70.01	
7300.00	7168.35	6384.16	6210.38	16.52	17.53	22.70	-1942.40	-118.54	1641.83	1618.00	68.91	
7400.00	7260.17	6484.65	6292.35	17.18	18.33	23.57	-1996.96	-138.63	1666.17	1641.58	67.75	
7500.00	7351.99	6584.02	6373.38	17.84	19.16	24.45	-2050.63	-159.33	1690.85	1665.47	66.62	
7600.00	7443.81	6685.14	6566.48	18.52	21.00	26.39	-2168.68	-205.76	1713.46	1686.38	63.26	
7700.00	7535.63	6930.71	6666.34	19.20	21.89	27.35	-2222.42	-228.09	1730.22	1702.21	61.78	
7800.00	7627.45	7033.05	6755.07	19.89	22.70	28.23	-2268.96	-248.93	1746.69	1717.82	60.51	
7900.00	7719.27	7131.81	6840.84	20.58	23.48	29.07	-2313.49	-269.24	1763.19	1733.47	59.32	
8000.00	7811.09	7212.94	6911.24	21.27	24.15	29.75	-2350.15	-286.02	1780.22	1749.74	58.39	
8100.00	7902.91	7284.85	6973.19	21.98	24.76	30.34	-2383.37	-301.22	1798.80	1767.59	57.64	
8200.00	7994.73	7353.00	7031.51	22.68	25.35	30.88	-2415.70	-315.26	1818.82	1786.88	56.94	
8300.00	8086.55	7405.47	7075.90	23.39	25.83	31.28	-2441.42	-326.26	1840.98	1808.45	56.58	
8400.00	8178.37	7463.49	7124.10	24.10	26.36	31.73	-2470.95	-339.31	1865.80	1832.59	56.18	
8500.00	8270.19	7559.22	7203.42	24.82	27.25	32.47	-2519.85	-361.29	1891.47	1857.29	55.33	
8600.00	8362.01	7643.46	7273.06	25.53	28.03	33.09	-2563.21	-380.41	1917.70	1882.61	54.66	



Weatherford International Ltd.

Anticollision Report



Weatherford

Company: Occidental Permian Ltd. Date: 12/27/2012 Time: 13:25:46 Page: 11
 Field: Eddy Co. NM (Nad 27)
 Reference Site: Lost Tank 4 Fed #22 Co-ordinate(NE) Reference: Well: LT 4 Fed #22, Grid North
 Reference Well: LT 4 Fed #22 Vertical (TVD) Reference: SITE 3479.3
 Reference Wellpath: ST 01 Db: Sybase

Site: Exist. Lost Tank 4 Fed #17
 Well: LT 4 #17
 Wellpath: 1 V0

Inter-Site Error: 0.00 ft

Reference MD	Reference TVD	Offset MD	Offset TVD	Semi-Major Axis Ref	Semi-Major Axis Offset	TFO:HS	Offset Location North	Offset Location East	Ctr-Ctr Distance	Edge Distance	Separation Factor	Warning
ft	ft	ft	ft	ft	ft	deg	ft	ft	ft	ft		
8700.00	8453.83	7730.43	7344.72	26.25	28.86	33.70	-2608.45	-399.98	1944.64	1908.61	53.98	
8800.00	8545.65	7903.61	7488.60	26.97	30.45	34.93	-2696.36	-439.42	1971.29	1933.67	52.40	
8900.00	8637.47	8085.60	7644.91	27.70	31.97	36.20	-2781.10	-478.13	1992.43	1953.19	50.77	
9000.00	8729.29	8273.88	7809.53	28.42	33.51	37.50	-2863.70	-517.07	2012.26	1971.38	49.23	
9100.00	8821.11	8456.53	7973.98	29.15	34.84	38.77	-2935.29	-551.55	2025.93	1983.50	47.75	
9200.00	8912.93	8475.00	7990.79	29.88	34.98	38.90	-2942.12	-554.95	2039.27	1996.17	47.31	
9300.00	9004.75	8475.00	7990.79	30.61	34.98	38.90	-2942.12	-554.95	2057.35	2013.67	47.10	
9400.00	9096.57	8475.00	7990.79	31.34	34.98	38.90	-2942.12	-554.95	2080.09	2035.82	46.99	
9500.00	9188.39	8475.00	7990.79	32.08	34.98	38.90	-2942.12	-554.95	2107.33	2062.47	46.98	
9600.00	9280.21	8475.00	7990.79	32.81	34.98	38.90	-2942.12	-554.95	2138.90	2093.45	47.06	
9700.00	9372.03	8475.00	7990.79	33.55	34.98	38.90	-2942.12	-554.95	2174.62	2128.56	47.22	
9800.00	9463.85	8475.00	7990.79	34.28	34.98	38.90	-2942.12	-554.95	2214.28	2167.62	47.45	
9900.00	9555.67	8475.00	7990.79	35.02	34.98	38.90	-2942.12	-554.95	2257.68	2210.40	47.76	
10000.00	9647.49	8475.00	7990.79	35.76	34.98	38.90	-2942.12	-554.95	2304.60	2256.71	48.12	
10100.00	9739.30	8475.00	7990.79	36.50	34.98	38.90	-2942.12	-554.95	2354.83	2306.33	48.55	
10200.00	9831.12	8475.00	7990.79	37.24	34.98	38.90	-2942.12	-554.95	2408.17	2359.05	49.02	
10300.00	9922.94	8475.00	7990.79	37.98	34.98	38.90	-2942.12	-554.95	2464.42	2414.67	49.53	
10400.00	10014.76	8475.00	7990.79	38.73	34.98	38.90	-2942.12	-554.95	2523.38	2473.00	50.08	
10500.00	10106.58	8475.00	7990.79	39.47	34.98	38.90	-2942.12	-554.95	2584.86	2533.85	50.67	
10600.00	10198.40	8475.00	7990.79	40.21	34.98	38.90	-2942.12	-554.95	2648.69	2597.05	51.28	
10700.00	10290.22	8475.00	7990.79	40.96	34.98	38.90	-2942.12	-554.95	2714.71	2662.43	51.92	
10800.00	10382.04	8475.00	7990.79	41.70	34.98	38.90	-2942.12	-554.95	2782.75	2729.83	52.58	
10900.00	10473.86	8475.00	7990.79	42.45	34.98	38.90	-2942.12	-554.95	2852.68	2799.12	53.26	
11000.00	10565.68	8475.00	7990.79	43.19	34.98	38.90	-2942.12	-554.95	2924.35	2870.15	53.95	
11100.00	10657.50	8475.00	7990.79	43.94	34.98	38.90	-2942.12	-554.95	2997.65	2942.81	54.66	
11200.00	10749.32	8475.00	7990.79	44.69	34.98	38.90	-2942.12	-554.95	3072.46	3016.97	55.37	
11300.00	10841.14	8475.00	7990.79	45.43	34.98	38.90	-2942.12	-554.95	3148.66	3092.53	56.09	
11400.00	10932.96	8475.00	7990.79	46.18	34.98	38.90	-2942.12	-554.95	3226.16	3169.38	56.82	
11500.00	11024.78	8475.00	7990.79	46.93	34.98	38.90	-2942.12	-554.95	3304.87	3247.45	57.55	
11600.00	11116.60	8475.00	7990.79	47.68	34.98	38.90	-2942.12	-554.95	3384.71	3326.64	58.29	
11700.00	11208.42	8475.00	7990.79	48.43	34.98	38.90	-2942.12	-554.95	3465.59	3406.87	59.02	
11800.00	11300.24	8475.00	7990.79	49.18	34.98	38.90	-2942.12	-554.95	3547.45	3488.08	59.76	
11900.00	11392.06	8475.00	7990.79	49.93	34.98	38.90	-2942.12	-554.95	3630.21	3570.20	60.49	
12000.00	11483.88	8475.00	7990.79	50.68	34.98	38.90	-2942.12	-554.95	3713.83	3653.17	61.23	
12100.00	11575.70	8475.00	7990.79	51.43	34.98	38.90	-2942.12	-554.95	3798.23	3736.93	61.96	
12200.00	11667.52	8475.00	7990.79	52.18	34.98	38.90	-2942.12	-554.95	3883.38	3821.43	62.68	
12300.00	11759.34	8475.00	7990.79	52.93	34.98	38.90	-2942.12	-554.95	3969.22	3906.62	63.40	
12400.00	11851.16	8475.00	7990.79	53.68	34.98	38.90	-2942.12	-554.95	4055.71	3992.46	64.12	
12500.00	11942.98	8475.00	7990.79	54.43	34.98	38.90	-2942.12	-554.95	4142.81	4078.91	64.84	
12600.00	12034.80	8475.00	7990.79	55.18	34.98	38.90	-2942.12	-554.95	4230.48	4165.93	65.55	
12700.00	12126.62	8475.00	7990.79	55.93	34.98	38.90	-2942.12	-554.95	4318.68	4253.49	66.25	
12800.00	12218.44	8475.00	7990.79	56.69	34.98	38.90	-2942.12	-554.95	4407.39	4341.55	66.95	
12900.00	12310.26	8475.00	7990.79	57.44	34.98	38.90	-2942.12	-554.95	4496.57	4430.09	67.64	

Site: Lost Tank 3 Fed #27
 Well: Lost Tank 3 Fed #27
 Wellpath: 1 V0 Plan: Plan #1 V1

Inter-Site Error: 0.00 ft

Reference MD	Reference TVD	Offset MD	Offset TVD	Semi-Major Axis Ref	Semi-Major Axis Offset	TFO:HS	Offset Location North	Offset Location East	Ctr-Ctr Distance	Edge Distance	Separation Factor	Warning
ft	ft	ft	ft	ft	ft	deg	ft	ft	ft	ft		
100.00	100.00	116.70	116.70	0.10	0.12	106.82	939.30	2311.10	2494.72	2494.50	11269.63	
200.00	200.00	216.70	216.70	0.36	0.35	88.79	939.30	2311.10	2494.75	2494.04	3517.52	



Weatherford International Ltd.

Anticollision Report



Weatherford

Company: Occidental Permian Ltd. Date: 12/27/2012 Time: 13:25:46 Page: 12
 Field: Eddy Co. NM (Nad 27)
 Reference Site: Lost Tank 4 Fed #22 Co-ordinate(NE) Reference: Well: LT 4 Fed #22, Grid North
 Reference Well: LT 4 Fed #22 Vertical (TVD) Reference: SITE 3479.3
 Reference Wellpath: ST 01 Db: Sybase

Site: Lost Tank 3 Fed #27
 Well: Lost Tank 3 Fed #27
 Wellpath: 1 V0 Plan: Plan #1 V1

Inter-Site Error: 0.00 ft

Reference MD	Reference TVD	Offset MD	Offset TVD	Semi-Major Axis Ref	Semi-Major Axis Offset	TFO-HS deg	Offset Location North	Offset Location East	Ctr-Ctr Distance	Edge Distance	Separation Factor	Warning
300.00	299.99	316.69	316.69	0.63	0.57	87.41	939.30	2311.10	2494.71	2493.51	2083.23	
400.00	399.99	416.69	416.69	0.89	0.80	100.21	939.30	2311.10	2494.80	2493.11	1478.97	
500.00	499.98	516.68	516.68	1.16	1.02	100.15	939.30	2311.10	2495.06	2492.88	1146.29	
600.00	599.96	616.66	616.66	1.42	1.25	84.67	939.30	2311.10	2495.11	2492.44	936.12	
700.00	699.94	716.64	716.64	1.58	1.47	63.17	939.30	2311.10	2494.56	2491.51	817.02	
800.00	799.92	816.62	816.62	1.65	1.70	56.13	939.30	2311.10	2493.46	2490.11	745.00	
900.00	899.90	916.60	916.60	1.70	1.92	55.23	939.30	2311.10	2492.29	2488.67	687.99	
1000.00	999.88	1016.58	1016.58	1.78	2.14	55.84	939.30	2311.10	2491.19	2487.27	634.96	
1100.00	1099.86	1116.56	1116.56	1.87	2.37	56.01	939.30	2311.10	2490.19	2485.95	587.33	
1200.00	1199.85	1216.55	1216.55	1.98	2.59	55.60	939.30	2311.10	2489.15	2484.58	544.11	
1300.00	1299.83	1316.53	1316.53	2.11	2.82	54.44	939.30	2311.10	2488.07	2483.14	505.05	
1400.00	1399.81	1416.51	1416.51	2.25	3.04	52.53	939.30	2311.10	2486.98	2481.69	470.01	
1500.00	1499.80	1516.50	1516.50	2.40	3.27	52.57	939.30	2311.10	2485.89	2480.22	438.61	
1600.00	1599.78	1616.48	1616.48	2.56	3.49	53.55	939.30	2311.10	2484.77	2478.72	410.75	
1700.00	1699.76	1716.46	1716.46	2.72	3.72	54.46	939.30	2311.10	2483.64	2477.21	385.89	
1800.00	1799.74	1816.44	1816.44	2.89	3.94	49.99	939.30	2311.10	2482.48	2475.65	363.47	
1900.00	1899.72	1916.42	1916.42	3.07	4.17	41.51	939.30	2311.10	2480.90	2473.67	343.11	
2000.00	1999.68	2016.38	2016.38	3.26	4.39	38.04	939.30	2311.10	2478.98	2471.34	324.26	
2100.00	2099.65	2116.35	2116.35	3.45	4.62	34.89	939.30	2311.10	2476.92	2468.86	307.30	
2200.00	2199.61	2216.31	2216.31	3.65	4.84	31.94	939.30	2311.10	2474.61	2466.13	291.71	
2300.00	2299.57	2316.27	2316.27	3.85	5.07	29.42	939.30	2311.10	2471.99	2463.08	277.54	
2400.00	2399.51	2416.21	2416.21	4.05	5.29	26.91	939.30	2311.10	2469.00	2459.66	264.46	
2500.00	2499.44	2516.14	2516.14	4.26	5.51	25.21	939.30	2311.10	2465.61	2455.84	252.46	
2600.00	2599.34	2616.04	2616.04	4.47	5.74	24.59	939.30	2311.10	2461.64	2451.44	241.34	
2700.00	2699.22	2715.92	2715.92	4.69	5.96	23.72	939.30	2311.10	2457.06	2446.42	231.00	
2800.00	2799.06	2815.76	2815.76	4.91	6.19	24.27	939.30	2311.10	2451.97	2440.89	221.39	
2900.00	2898.89	2915.59	2915.59	5.13	6.41	26.35	939.30	2311.10	2446.60	2435.09	212.47	
3000.00	2998.69	3015.39	3015.39	5.35	6.64	25.66	939.30	2311.10	2440.98	2429.02	204.15	
3100.00	3098.47	3115.17	3115.17	5.58	6.86	23.10	939.30	2311.10	2434.98	2422.58	196.37	
3200.00	3198.23	3214.93	3214.93	5.80	7.09	16.75	939.30	2311.10	2428.54	2415.70	189.10	
3300.00	3297.97	3314.67	3314.67	6.03	7.31	9.22	939.30	2311.10	2421.44	2408.16	182.26	
3400.00	3397.68	3414.38	3414.38	6.26	7.53	5.51	939.30	2311.10	2413.86	2400.14	175.87	
3500.00	3497.36	3514.06	3514.06	6.49	7.76	1.06	939.30	2311.10	2405.97	2391.80	169.87	
3600.00	3596.99	3613.69	3613.69	6.73	7.98	358.27	939.30	2311.10	2397.33	2382.72	164.11	
3700.00	3696.56	3713.26	3713.26	6.97	8.21	357.03	939.30	2311.10	2388.05	2372.99	158.61	
3800.00	3796.07	3812.77	3812.77	7.22	8.43	355.59	939.30	2311.10	2378.21	2362.71	153.38	
3900.00	3895.53	3912.23	3912.23	7.47	8.65	354.71	939.30	2311.10	2367.92	2351.97	148.41	
4000.00	3995.00	4011.70	4011.70	7.71	8.88	354.68	939.30	2311.10	2357.62	2341.23	143.82	
4100.00	4094.45	4111.15	4111.15	7.96	9.10	353.95	939.30	2311.10	2347.25	2330.42	139.45	
4200.00	4193.92	4210.62	4210.62	8.14	9.32	348.41	939.30	2311.10	2337.03	2319.82	135.78	
4300.00	4293.46	4310.16	4310.16	8.21	9.55	337.87	939.30	2311.10	2327.92	2310.44	133.12	
4400.00	4393.09	4438.10	4438.09	8.24	9.84	314.34	937.93	2311.05	2320.39	2302.60	130.42	
4500.00	4492.74	4584.67	4584.40	8.25	10.17	279.70	929.65	2310.75	2314.35	2296.21	127.61	
4600.00	4592.25	4731.38	4730.25	8.25	10.52	253.16	913.89	2310.17	2310.99	2292.51	125.07	
4700.00	4691.38	4877.96	4874.96	8.24	10.88	238.59	890.72	2309.33	2310.34	2291.52	122.76	
4800.00	4789.95	5024.10	5017.88	8.22	11.27	234.27	860.28	2308.22	2311.80	2292.58	120.32	
4900.00	4888.43	5169.27	5158.13	8.22	11.71	234.63	822.87	2306.86	2311.85	2292.17	117.51	
5000.00	4986.91	5312.75	5294.70	8.23	12.20	235.14	778.96	2305.26	2310.02	2289.82	114.34	
5100.00	5085.39	5453.86	5426.71	8.26	12.75	235.81	729.17	2303.45	2306.45	2285.65	110.86	
5200.00	5183.87	5592.00	5553.41	8.30	13.37	236.61	674.20	2301.45	2301.30	2279.81	107.10	
5300.00	5282.35	5716.95	5665.65	8.35	14.01	237.48	619.36	2299.45	2294.81	2272.58	103.23	



Weatherford International Ltd.

Anticollision Report



Weatherford

Company: Occidental Permian Ltd.
Field: Eddy Co. NM (Nad 27)
Reference Site: Lost Tank 4 Fed #22
Reference Well: LT 4 Fed #22
Reference Wellpath: ST 01

Date: 12/27/2012 Time: 13:25:46 Page: 13
Co-ordinate(NE) Reference: Well: LT 4 Fed #22, Grid North
Vertical (TVD) Reference: SITE 3479.3
Db: Sybase

Site: Lost Tank 3 Fed #27
Well: Lost Tank 3 Fed #27
Wellpath: 1 V0 Plan: Plan #1 V1

Inter-Site Error: 0.00 ft

Reference		Offset		Semi-Major Axis			Offset Location		Ctr-Ctr	Edge	Separation	Warning
MD	TVD	MD	TVD	Ref	Offset	TFO-HS	North	East	Distance	Distance	Factor	
ft	ft	ft	ft	ft	ft	deg	ft	ft	ft	ft		
5400.00	5380.83	5812.45	5750.85	8.42	14.54	238.17	576.24	2297.88	2288.23	2265.33	99.93	
5500.00	5479.31	5907.96	5836.05	8.56	15.10	238.87	533.12	2296.31	2282.01	2258.40	96.66	
5600.00	5577.79	6003.46	5921.25	8.71	15.68	239.57	490.00	2294.74	2276.17	2251.81	93.46	
5700.00	5676.27	6098.96	6006.45	8.88	16.27	240.27	446.88	2293.17	2270.69	2245.57	90.38	
5800.00	5774.66	6194.65	6091.81	9.07	16.89	246.47	403.68	2291.59	2265.40	2239.46	87.33	
5900.00	5872.34	6291.43	6178.15	9.29	17.53	254.86	359.98	2290.00	2259.15	2232.33	84.26	
6000.00	5968.97	6389.22	6265.39	9.55	18.19	260.58	315.83	2288.39	2251.62	2223.88	81.16	
6100.00	6064.29	6487.74	6353.28	9.86	18.87	264.57	271.34	2286.77	2242.73	2213.99	78.03	
6200.00	6158.04	6586.72	6441.59	10.24	19.56	267.40	226.65	2285.15	2232.40	2202.59	74.90	
6300.00	6250.15	6685.90	6530.07	10.69	20.27	268.64	181.87	2283.52	2220.73	2189.80	71.78	
6400.00	6341.97	6785.10	6618.56	11.17	20.99	268.75	137.08	2281.88	2208.85	2176.73	68.76	
6500.00	6433.79	6884.29	6707.05	11.69	21.71	268.87	92.29	2280.25	2196.98	2163.63	65.88	
6600.00	6525.61	6983.48	6795.54	12.23	22.45	268.98	47.51	2278.62	2185.11	2150.51	63.14	
6700.00	6617.43	7082.68	6884.03	12.80	23.19	269.10	2.72	2276.99	2173.25	2137.36	60.55	
6800.00	6709.25	7181.87	6972.52	13.38	23.93	269.22	-42.07	2275.36	2161.41	2124.20	58.09	
6900.00	6801.07	7281.06	7061.02	13.98	24.69	269.34	-86.85	2273.73	2149.57	2111.02	55.76	
7000.00	6892.89	7380.25	7149.51	14.60	25.45	269.47	-131.64	2272.10	2137.74	2097.83	53.57	
7100.00	6984.71	7479.45	7238.00	15.22	26.21	269.59	-176.43	2270.47	2125.92	2084.63	51.49	
7200.00	7076.53	7578.64	7326.49	15.87	26.98	269.72	-221.21	2268.84	2114.11	2071.43	49.53	
7300.00	7168.35	7677.83	7414.98	16.52	27.75	269.84	-266.00	2267.21	2102.31	2058.22	47.68	
7400.00	7260.17	7777.03	7503.47	17.18	28.53	269.97	-310.79	2265.57	2090.53	2045.00	45.92	
7500.00	7351.99	7876.22	7591.97	17.84	29.31	270.10	-355.58	2263.94	2078.75	2031.79	44.27	
7600.00	7443.81	7975.41	7680.46	18.52	30.09	270.23	-400.36	2262.31	2066.98	2018.57	42.70	
7700.00	7535.63	8074.61	7768.95	19.20	30.88	270.36	-445.15	2260.68	2055.23	2005.36	41.21	
7800.00	7627.45	8173.80	7857.44	19.89	31.67	270.50	-489.94	2259.05	2043.48	1992.14	39.80	
7900.00	7719.27	8272.99	7945.93	20.58	32.46	270.63	-534.72	2257.42	2031.75	1978.93	38.47	
8000.00	7811.09	8372.19	8034.42	21.27	33.25	270.77	-579.51	2255.79	2020.02	1965.72	37.20	
8100.00	7902.91	8471.38	8122.91	21.98	34.05	270.91	-624.30	2254.16	2008.31	1952.52	35.99	
8200.00	7994.73	8570.57	8211.41	22.68	34.85	271.05	-669.08	2252.53	1996.61	1939.32	34.85	
8300.00	8086.55	8669.77	8299.90	23.39	35.65	271.19	-713.87	2250.89	1984.93	1926.13	33.76	
8400.00	8178.37	8768.96	8388.39	24.10	36.45	271.34	-758.66	2249.26	1973.25	1912.94	32.72	
8500.00	8270.19	8868.15	8476.88	24.82	37.26	271.48	-803.45	2247.63	1961.59	1899.76	31.73	
8600.00	8362.01	8967.35	8565.37	25.53	38.06	271.63	-848.23	2246.00	1949.94	1886.59	30.78	
8700.00	8453.83	9066.54	8653.86	26.25	38.87	271.78	-893.02	2244.37	1938.30	1873.42	29.88	
8800.00	8545.65	9165.73	8742.36	26.97	39.68	271.93	-937.81	2242.74	1926.68	1860.27	29.01	
8900.00	8637.47	9264.93	8830.85	27.70	40.49	272.08	-982.59	2241.11	1915.07	1847.12	28.19	
9000.00	8729.29	9364.12	8919.34	28.42	41.30	272.24	-1027.38	2239.48	1903.47	1833.99	27.39	
9100.00	8821.11	9463.31	9007.83	29.15	42.11	272.39	-1072.17	2237.85	1891.89	1820.86	26.64	
9200.00	8912.93	9562.51	9096.32	29.88	42.92	272.55	-1116.95	2236.22	1880.32	1807.74	25.91	
9300.00	9004.75	9661.70	9184.81	30.61	43.74	272.71	-1161.74	2234.58	1868.76	1794.64	25.21	
9400.00	9096.57	9760.89	9273.31	31.34	44.55	272.87	-1206.53	2232.95	1857.22	1781.55	24.54	
9500.00	9188.39	9860.09	9361.80	32.08	45.37	273.04	-1251.32	2231.32	1845.70	1768.47	23.90	
9600.00	9280.21	9959.28	9450.29	32.81	46.19	273.20	-1296.10	2229.69	1834.19	1755.40	23.28	
9700.00	9372.03	10058.47	9538.78	33.55	47.01	273.37	-1340.89	2228.06	1822.69	1742.35	22.68	
9800.00	9463.85	10157.67	9627.27	34.28	47.82	273.54	-1385.68	2226.43	1811.22	1729.30	22.11	
9900.00	9555.67	10256.86	9715.76	35.02	48.64	273.71	-1430.46	2224.80	1799.75	1716.28	21.56	
10000.00	9647.49	10356.05	9804.25	35.76	49.46	273.89	-1475.25	2223.17	1788.31	1703.27	21.03	
10100.00	9739.30	10455.24	9892.75	36.50	50.28	274.07	-1520.04	2221.54	1776.88	1690.27	20.52	
10200.00	9831.12	10554.44	9981.24	37.24	51.11	274.25	-1564.82	2219.90	1765.47	1677.29	20.02	
10300.00	9922.94	10653.63	10069.73	37.98	51.93	274.43	-1609.61	2218.27	1754.07	1664.32	19.54	
10400.00	10014.76	10752.82	10158.22	38.73	52.75	274.61	-1654.40	2216.64	1742.69	1651.37	19.08	



Weatherford International Ltd.

Anticollision Report



Weatherford

Company: Occidental Permian Ltd. Date: 12/27/2012 Time: 13:25:46 Page: 14
 Field: Eddy Co, NM (Nad 27)
 Reference Site: Lost Tank 4 Fed #22 Co-ordinate(NE) Reference: Well: LT 4 Fed #22, Grid North
 Reference Well: LT 4 Fed #22 Vertical (TVD) Reference: SITE 3479.3
 Reference Wellpath: ST 01 Db: Sybase

Site: Lost Tank 3 Fed #27
 Well: Lost Tank 3 Fed #27
 Wellpath: 1 V0 Plan: Plan #1 V1

Inter-Site Error: 0.00 ft

Reference		Offset		Semi-Major Axis		Offset Location		TFO-HS deg.	North ft	East ft	Ctr-Ctr Distance ft	Edge Distance ft	Separation Factor	Warning
MD ft	TVD ft	MD ft	TVD ft	Ref ft	Offset ft									
10500.00	10106.58	10852.02	10246.71	39.47	53.57	274.80	-1699.19	2215.01	1731.33	1638.43	18.64			
10600.00	10198.40	10951.21	10335.20	40.21	54.40	274.99	-1743.97	2213.38	1719.99	1625.52	18.21			
10700.00	10290.22	11050.40	10423.70	40.96	55.22	275.18	-1788.76	2211.75	1708.67	1612.62	17.79			
10800.00	10382.04	11149.60	10512.19	41.70	56.05	275.37	-1833.55	2210.12	1697.37	1599.74	17.39			
10900.00	10473.86	11248.79	10600.68	42.45	56.87	275.57	-1878.33	2208.49	1686.08	1586.88	17.00			
11000.00	10565.68	11347.98	10689.17	43.19	57.70	275.77	-1923.12	2206.86	1674.82	1574.03	16.62			
11100.00	10657.50	11447.18	10777.66	43.94	58.52	275.97	-1967.91	2205.23	1663.58	1561.21	16.25			
11200.00	10749.32	11546.37	10866.15	44.69	59.35	276.18	-2012.69	2203.59	1652.36	1548.41	15.90			
11300.00	10841.14	11645.56	10954.65	45.43	60.18	276.38	-2057.48	2201.96	1641.15	1535.63	15.55			
11400.00	10932.96	11744.76	11043.14	46.18	61.01	276.59	-2102.27	2200.33	1629.98	1522.87	15.22			
11500.00	11024.78	11843.95	11131.63	46.93	61.83	276.81	-2147.06	2198.70	1618.82	1510.13	14.89			
11600.00	11116.60	11943.14	11220.12	47.68	62.66	277.02	-2191.84	2197.07	1607.68	1497.41	14.58			
11700.00	11208.42	12042.34	11308.61	48.43	63.49	277.24	-2236.63	2195.44	1596.57	1484.72	14.27			
11800.00	11300.24	12141.53	11397.10	49.18	64.32	277.46	-2281.42	2193.81	1585.48	1472.05	13.98			
11900.00	11392.06	12240.72	11485.60	49.93	65.15	277.69	-2326.20	2192.18	1574.42	1459.41	13.69			
12000.00	11483.88	12339.92	11574.09	50.68	65.98	277.92	-2370.99	2190.55	1563.38	1446.79	13.41			
12100.00	11575.70	12439.11	11662.58	51.43	66.81	278.15	-2415.78	2188.91	1552.36	1434.19	13.14			
12200.00	11667.52	12538.30	11751.07	52.18	67.64	278.39	-2460.56	2187.28	1541.37	1421.62	12.87			
12300.00	11759.34	12637.50	11839.56	52.93	68.47	278.62	-2505.35	2185.65	1530.41	1409.08	12.61			
12400.00	11851.16	12736.69	11928.05	53.68	69.30	278.87	-2550.14	2184.02	1519.47	1396.57	12.36			
12500.00	11942.98	12835.88	12016.54	54.43	70.13	279.11	-2594.93	2182.39	1508.56	1384.09	12.12			
12600.00	12034.80	12935.08	12105.04	55.18	70.96	279.36	-2639.71	2180.76	1497.68	1371.63	11.88			
12700.00	12126.62	13034.27	12193.53	55.93	71.79	279.61	-2684.50	2179.13	1486.83	1359.21	11.65			
12800.00	12218.44	13133.46	12282.02	56.69	72.62	279.87	-2729.29	2177.50	1476.01	1346.82	11.43			
12900.00	12310.26	13232.66	12370.51	57.44	73.45	280.13	-2774.07	2175.87	1465.21	1334.45	11.21			

Site: Lost Tank 4 Fed #22
 Well: LT 4 Fed #22
 Wellpath: ST 00 V4

Inter-Site Error: 0.00 ft

Reference		Offset		Semi-Major Axis		Offset Location		TFO-HS deg.	North ft	East ft	Ctr-Ctr Distance ft	Edge Distance ft	Separation Factor	Warning
MD ft	TVD ft	MD ft	TVD ft	Ref ft	Offset ft									
100.00	100.00	100.00	100.00	0.10	0.10	0.00	0.09	-0.07	0.00	-0.20	0.00	-0.20	0.00	No Data
200.00	200.00	200.00	200.00	0.36	0.36	0.00	0.47	-0.25	0.00	-0.73	0.00	-0.73	0.00	No Data
300.00	299.99	300.00	299.99	0.63	0.63	0.00	1.35	-0.57	0.00	-1.25	0.00	-1.25	0.00	No Data
400.00	399.99	400.00	399.99	0.89	0.89	0.00	2.49	-1.13	0.00	-1.78	0.00	-1.78	0.00	No Data
500.00	499.98	500.00	499.98	1.16	1.16	0.00	3.73	-1.91	0.00	-2.31	0.00	-2.31	0.00	No Data
600.00	599.96	600.00	599.96	1.42	1.42	0.00	5.34	-2.62	0.00	-2.84	0.00	-2.84	0.00	No Data
700.00	699.94	700.00	699.94	1.58	1.58	0.00	7.25	-2.80	0.00	-3.17	0.00	-3.17	0.00	No Data
800.00	799.92	800.00	799.92	1.65	1.65	0.00	9.28	-2.43	0.00	-3.30	0.00	-3.30	0.00	No Data
900.00	899.90	900.00	899.90	1.70	1.70	0.00	11.29	-1.97	0.00	-3.40	0.00	-3.40	0.00	No Data
1000.00	999.88	1000.00	999.88	1.78	1.78	0.00	13.18	-1.55	0.00	-3.56	0.00	-3.56	0.00	No Data
1100.00	1099.86	1100.00	1099.86	1.87	1.87	0.00	14.94	-1.17	0.00	-3.74	0.00	-3.74	0.00	No Data
1200.00	1199.85	1200.00	1199.85	1.98	1.98	0.00	16.74	-0.77	0.00	-3.96	0.00	-3.96	0.00	No Data
1300.00	1299.83	1300.00	1299.83	2.11	2.11	0.00	18.59	-0.35	0.00	-4.22	0.00	-4.22	0.00	No Data
1400.00	1399.81	1400.00	1399.81	2.25	2.25	0.00	20.36	0.12	0.00	-4.50	0.00	-4.50	0.00	No Data
1500.00	1499.80	1500.00	1499.80	2.40	2.40	0.00	22.07	0.62	0.00	-4.80	0.00	-4.80	0.00	No Data
1600.00	1599.78	1600.00	1599.78	2.56	2.56	0.00	23.87	1.11	0.00	-5.11	0.00	-5.11	0.00	No Data
1700.00	1699.76	1700.00	1699.76	2.72	2.72	0.00	25.72	1.59	0.00	-5.44	0.00	-5.44	0.00	No Data
1800.00	1799.74	1800.00	1799.74	2.89	2.89	0.00	27.61	2.09	0.00	-5.78	0.00	-5.78	0.00	No Data
1900.00	1899.72	1900.00	1899.72	3.07	3.07	0.00	29.68	2.97	0.00	-6.13	0.00	-6.13	0.00	No Data
2000.00	1999.68	2000.00	1999.68	3.26	3.26	0.00	31.87	4.17	0.00	-6.51	0.00	-6.51	0.00	No Data



Weatherford International Ltd.

Anticollision Report



Weatherford

Company: Occidental Permian Ltd. Date: 12/27/2012 Time: 13:25:46 Page: 15
 Field: Eddy Co. NM (Nad 27)
 Reference Site: Lost Tank 4 Fed #22
 Reference Well: LT 4 Fed #22
 Reference Wellpath: ST 01
 Co-ordinate(NE) Reference: Well: LT 4 Fed #22. Grid North
 Vertical (TVD) Reference: SITE 3479.3
 Db: Sybase

Site: Lost Tank 4 Fed #22
 Well: LT 4 Fed #22
 Wellpath: ST 00 V4

Inter-Site Error: 0.00 ft

Reference MD ft	TVD ft	Offset MD ft	TVD ft	Semi-Major Axis Ref ft	Offset ft	TFO-HS deg	Offset Location North ft	East ft	Ctr-Ctr Distance ft	Edge Distance ft	Separation Factor	Warning
2100.00	2099.65	2100.00	2099.65	3.45	3.45	0.00	34.04	5.53	0.00	-6.89	0.00	No Data
2200.00	2199.61	2200.00	2199.61	3.65	3.65	0.00	36.29	7.13	0.00	-7.29	0.00	No Data
2300.00	2299.57	2300.00	2299.57	3.85	3.85	0.00	38.70	9.00	0.00	-7.69	0.00	No Data
2400.00	2399.51	2400.00	2399.51	4.05	4.05	0.00	41.27	11.21	0.00	-8.10	0.00	No Data
2500.00	2499.44	2500.00	2499.44	4.26	4.26	0.00	44.04	13.77	0.00	-8.52	0.00	No Data
2600.00	2599.34	2600.00	2599.34	4.47	4.47	0.00	47.19	16.80	0.00	-8.94	0.00	No Data
2700.00	2699.22	2700.00	2699.22	4.69	4.69	0.00	50.77	20.33	0.00	-9.37	0.00	No Data
2800.00	2799.06	2800.00	2799.06	4.91	4.91	0.00	54.67	24.27	0.00	-9.81	0.00	No Data
2900.00	2898.89	2900.00	2898.89	5.13	5.13	0.00	58.98	28.36	0.00	-10.25	0.00	No Data
3000.00	2998.69	3000.00	2998.69	5.35	5.35	0.00	63.62	32.60	0.00	-10.70	0.00	No Data
3100.00	3098.47	3100.00	3098.47	5.58	5.58	0.00	68.29	37.23	0.00	-11.15	0.00	No Data
3200.00	3198.23	3200.00	3198.23	5.80	5.80	0.00	72.84	42.39	0.00	-11.61	0.00	No Data
3300.00	3297.97	3300.00	3297.97	6.03	6.03	0.00	76.88	48.44	0.00	-12.07	0.00	No Data
3400.00	3397.68	3400.00	3397.68	6.26	6.26	0.00	80.45	55.20	0.00	-12.52	0.00	No Data
3500.00	3497.36	3500.00	3497.36	6.49	6.49	0.00	83.69	62.41	0.00	-12.98	0.00	No Data
3600.00	3596.99	3600.00	3596.99	6.73	6.73	0.00	86.69	70.51	0.00	-13.45	0.00	No Data
3700.00	3696.56	3700.00	3696.56	6.97	6.97	0.00	89.63	79.32	0.00	-13.94	0.00	No Data
3800.00	3796.07	3800.00	3796.07	7.22	7.22	0.00	92.54	88.74	0.00	-14.44	0.00	No Data
3900.00	3895.53	3900.00	3895.53	7.47	7.47	0.00	95.38	98.67	0.00	-14.95	0.00	No Data
4000.00	3995.00	4000.00	3995.00	7.71	7.71	0.00	98.17	108.63	0.00	-15.43	0.00	No Data
4100.00	4094.45	4100.00	4094.45	7.96	7.96	0.00	100.94	118.67	0.00	-15.91	0.00	No Data
4200.00	4193.92	4200.00	4193.92	8.14	8.20	0.00	103.24	128.73	0.00	-16.34	0.00	No Data
4300.00	4293.46	4300.00	4293.46	8.21	8.43	0.00	103.96	138.21	0.00	-16.64	0.00	No Data
4400.00	4393.09	4400.00	4393.09	8.24	8.63	0.00	102.22	146.56	0.00	-16.87	0.00	Level 1
4500.00	4492.74	4500.00	4492.73	8.25	8.82	271.41	96.95	153.19	0.47	-15.74	0.03	Level 1
4600.00	4592.25	4600.00	4592.29	8.25	9.00	242.28	89.46	158.72	3.87	-12.53	0.24	Level 1
4700.00	4691.38	4700.02	4691.68	8.24	9.16	229.84	78.92	162.54	9.28	-7.30	0.56	Level 1
4800.00	4789.95	4799.93	4790.61	8.22	9.29	229.25	65.34	165.63	16.91	0.10	1.01	Level 2
4900.00	4888.43	4900.05	4889.17	8.22	9.42	238.27	48.05	168.55	23.64	6.56	1.38	Level 3
5000.00	4986.91	5000.32	4987.20	8.23	9.52	249.85	27.11	170.21	28.90	11.51	1.66	
5100.00	5085.39	5099.35	5083.24	8.26	9.64	263.28	2.99	171.98	35.41	17.69	2.00	
5200.00	5183.87	5198.01	5178.21	8.30	9.87	275.03	-23.57	174.80	45.11	27.11	2.51	
5300.00	5282.35	5295.95	5271.59	8.35	10.16	285.04	-52.94	177.94	57.84	39.61	3.17	
5400.00	5380.83	5392.50	5362.67	8.42	10.48	292.82	-84.72	181.80	74.17	55.74	4.03	
5500.00	5479.31	5487.99	5451.70	8.56	10.83	298.78	-118.93	186.33	94.02	75.40	5.05	
5600.00	5577.79	5582.50	5538.98	8.71	11.24	302.87	-154.71	192.15	117.05	98.23	6.22	
5700.00	5676.27	5679.03	5627.79	8.88	11.65	305.47	-191.86	199.29	141.78	122.67	7.42	
5800.00	5774.66	5776.26	5717.26	9.07	12.05	312.97	-229.27	206.30	165.92	146.51	8.55	
5900.00	5872.34	5874.69	5807.88	9.29	12.48	322.28	-267.06	213.16	185.47	165.78	9.42	
6000.00	5968.97	5974.53	5899.95	9.55	12.91	328.62	-305.06	220.05	199.63	179.63	9.98	
6100.00	6064.29	6072.50	5990.29	9.86	13.40	333.17	-342.39	226.70	208.62	188.33	10.28	
6200.00	6158.04	6171.26	6081.07	10.24	13.92	336.52	-380.60	233.97	213.27	192.66	10.35	
6300.00	6250.15	6270.27	6171.87	10.69	14.48	338.26	-419.38	241.24	213.66	192.66	10.18	
6400.00	6341.97	6370.34	6263.53	11.17	15.04	338.75	-458.86	248.55	213.50	192.00	9.93	
6500.00	6433.79	6470.79	6355.53	11.69	15.60	339.37	-498.63	255.40	213.21	191.20	9.69	
6600.00	6525.61	6571.95	6448.32	12.23	16.16	339.96	-538.32	262.26	212.59	190.05	9.43	
6700.00	6617.43	6675.05	6543.41	12.80	16.72	340.33	-577.51	269.40	210.94	187.82	9.12	
6800.00	6709.25	6777.93	6638.96	13.38	17.27	340.50	-615.00	276.34	207.76	184.04	8.76	
6900.00	6801.07	6879.22	6733.39	13.98	17.81	340.64	-651.10	282.76	203.62	179.32	8.38	
7000.00	6892.89	6980.50	6828.02	14.60	18.36	340.77	-686.66	288.88	198.85	173.94	7.98	



Weatherford International Ltd.

Anticollision Report



Weatherford

Company: Occidental Permian Ltd. Date: 12/27/2012 Time: 13:25:46 Page: 16
 Field: Eddy Co. NM (Nad 27)
 Reference Site: Lost Tank 4 Fed #22 Co-ordinate(NE) Reference: Well: LT 4 Fed #22, Grid North
 Reference Well: LT 4 Fed #22 Vertical (TVD) Reference: SITE 3479.3
 Reference Wellpath: ST 01 Db: Sybase

Site: Lost Tank 4 Fed #22
 Well: LT 4 Fed #22
 Wellpath: ST 00 V4

Inter-Site Error: 0.00 ft

Reference MD	Reference TVD	Offset MD	Offset TVD	Semi-Major Axis Ref	Offset	TFO-HS	Offset Location North	Offset Location East	Ctr-Ctr Distance	Edge Distance	Separation Factor	Warning
7100.00	6984.71	7081.15	6922.29	15.22	18.91	340.91	-721.44	294.61	193.38	167.87	7.58	
7200.00	7076.53	7179.73	7014.62	15.87	19.47	341.01	-755.52	300.40	188.03	161.92	7.20	
7300.00	7168.35	7276.58	7104.99	16.52	20.05	340.96	-789.67	307.10	183.87	157.17	6.89	
7400.00	7260.17	7374.08	7195.39	17.18	20.66	340.89	-825.38	314.77	181.46	154.14	6.64	
7500.00	7351.99	7473.52	7287.31	17.84	21.28	340.85	-862.44	322.91	179.84	151.86	6.43	
7600.00	7443.81	7572.98	7379.19	18.52	21.90	340.80	-899.60	331.16	178.35	149.71	6.23	
7700.00	7535.63	7672.72	7471.20	19.20	22.53	340.82	-937.23	339.41	177.19	147.88	6.04	
7800.00	7627.45	7773.59	7564.33	19.89	23.17	340.76	-975.03	347.87	175.86	145.85	5.86	
7900.00	7719.27	7874.25	7657.57	20.58	23.78	340.43	-1011.93	356.73	174.01	143.24	5.66	
8000.00	7811.09	7976.70	7752.79	21.27	24.39	339.99	-1048.66	365.56	171.34	139.76	5.43	
8100.00	7902.91	8077.22	7846.57	21.98	24.99	339.51	-1083.92	373.76	167.70	135.33	5.18	
8200.00	7994.73	8179.16	7941.96	22.68	25.59	338.85	-1118.88	382.07	163.38	130.14	4.91	
8300.00	8086.55	8283.46	8040.38	23.39	26.18	337.90	-1152.56	389.82	156.90	122.69	4.59	
8400.00	8178.37	8386.11	8138.03	24.10	26.73	336.61	-1183.44	396.61	148.10	112.83	4.20	
8500.00	8270.19	8487.83	8235.48	24.82	27.25	334.58	-1211.80	403.33	137.56	101.02	3.76	
8600.00	8362.01	8587.71	8331.55	25.53	27.75	332.03	-1238.42	409.47	125.92	87.90	3.31	
8700.00	8453.83	8685.76	8425.67	26.25	28.24	329.39	-1265.30	415.23	114.97	75.33	2.90	
8800.00	8545.65	8782.72	8518.14	26.97	28.76	327.19	-1293.95	420.69	105.69	64.50	2.57	
8900.00	8637.47	8879.65	8609.69	27.70	29.32	325.12	-1325.02	427.58	99.48	56.68	2.32	
9000.00	8729.29	8976.37	8699.80	28.42	29.92	324.43	-1359.43	434.49	95.94	52.00	2.18	
9100.00	8821.11	9073.40	8788.47	29.15	30.59	325.33	-1398.05	442.27	96.14	51.67	2.16	
9200.00	8912.93	9172.99	8878.63	29.88	31.30	326.82	-1439.47	450.86	98.21	53.39	2.19	
9300.00	9004.75	9274.11	8970.41	30.61	32.01	328.28	-1481.09	459.11	99.65	54.47	2.21	
9400.00	9096.57	9374.66	9062.27	31.34	32.71	329.14	-1521.17	467.30	100.10	54.35	2.19	
9500.00	9188.39	9475.42	9154.68	32.08	33.38	329.46	-1560.39	475.84	100.06	53.53	2.15	
9600.00	9280.21	9576.91	9248.31	32.81	34.06	329.33	-1598.63	484.25	98.88	51.37	2.08	
9700.00	9372.03	9677.53	9341.66	33.55	34.70	328.80	-1635.33	492.29	96.54	47.88	1.98	
9800.00	9463.85	9780.99	9438.52	34.28	35.34	327.66	-1670.94	499.59	91.97	41.83	1.83	
9900.00	9555.67	9869.00	9521.82	35.02	35.86	325.36	-1698.68	505.68	86.08	33.86	1.65	
10000.00	9647.49	9869.00	9521.82	35.76	35.86	325.36	-1698.68	505.68	136.70	83.10	2.55	
10100.00	9739.30	9869.00	9521.82	36.50	35.86	325.36	-1698.68	505.68	223.53	168.35	4.05	
10200.00	9831.12	9869.00	9521.82	37.24	35.86	325.36	-1698.68	505.68	318.19	261.25	5.59	
10300.00	9922.94	9869.00	9521.82	37.98	35.86	325.36	-1698.68	505.68	415.36	356.51	7.06	
10400.00	10014.76	9869.00	9521.82	38.73	35.86	325.36	-1698.68	505.68	513.62	452.80	8.45	
10500.00	10106.58	9869.00	9521.82	39.47	35.86	325.36	-1698.68	505.68	612.44	549.77	9.77	
10600.00	10198.40	9869.00	9521.82	40.21	35.86	325.36	-1698.68	505.68	711.59	647.41	11.09	
10700.00	10290.22	9869.00	9521.82	40.96	35.86	325.36	-1698.68	505.68	810.95	745.81	12.45	
10800.00	10382.04	9869.00	9521.82	41.70	35.86	325.36	-1698.68	505.68	910.45	844.97	13.90	
10900.00	10473.86	9869.00	9521.82	42.45	35.86	325.36	-1698.68	505.68	1010.05	944.77	15.47	
11000.00	10565.68	9869.00	9521.82	43.19	35.86	325.36	-1698.68	505.68	1109.72	1044.97	17.14	
11100.00	10657.50	9869.00	9521.82	43.94	35.86	325.36	-1698.68	505.68	1209.44	1145.35	18.87	
11200.00	10749.32	9869.00	9521.82	44.69	35.86	325.36	-1698.68	505.68	1309.21	1245.77	20.64	
11300.00	10841.14	9869.00	9521.82	45.43	35.86	325.36	-1698.68	505.68	1409.01	1346.13	22.41	
11400.00	10932.96	9869.00	9521.82	46.18	35.86	325.36	-1698.68	505.68	1508.84	1446.39	24.16	
11500.00	11024.78	9869.00	9521.82	46.93	35.86	325.36	-1698.68	505.68	1608.69	1546.54	25.89	
11600.00	11116.60	9869.00	9521.82	47.68	35.86	325.36	-1698.68	505.68	1708.55	1646.60	27.58	
11700.00	11208.42	9869.00	9521.82	48.43	35.86	325.36	-1698.68	505.68	1808.43	1746.57	29.23	
11800.00	11300.24	9869.00	9521.82	49.18	35.86	325.36	-1698.68	505.68	1908.33	1846.46	30.84	
11900.00	11392.06	9869.00	9521.82	49.93	35.86	325.36	-1698.68	505.68	2008.23	1946.28	32.42	
12000.00	11483.88	9869.00	9521.82	50.68	35.86	325.36	-1698.68	505.68	2108.14	2046.06	33.96	
12100.00	11575.70	9869.00	9521.82	51.43	35.86	325.36	-1698.68	505.68	2208.06	2145.79	35.46	



Weatherford International Ltd.

Anticollision Report

**Weatherford**

Company: Occidental Permian Ltd. Date: 12/27/2012 Time: 13:25:46 Page: 17
Field: Eddy Co. NM (Nad 27)
Reference Site: Lost Tank 4 Fed #22 Co-ordinate(NE) Reference: Well: LT 4 Fed #22, Grid North
Reference Well: LT 4 Fed #22 Vertical (TVD) Reference: SITE 3479.3
Reference Wellpath: ST-01 Db: Sybase

Site: Lost Tank 4 Fed #22

Well: LT 4 Fed #22

Wellpath: ST 00 V4

Inter-Site Error: 0.00 ft

Reference		Offset		Semi-Major Axis		Offset Location		Ctr-Ctr Edge		Separation	Warning
MD	TVD	MD	TVD	Ref	Offset	TFO-HS	North	East	Distance	Distance	
ft	ft	ft	ft	ft	ft	deg	ft	ft	ft	ft	
12200.00	11667.52	9869.00	9521.82	52.18	35.86	325.36 -1698.68	505.68		2307.99	2245.48	36.92
12300.00	11759.34	9869.00	9521.82	52.93	35.86	325.36 -1698.68	505.68		2407.93	2345.14	38.35
12400.00	11851.16	9869.00	9521.82	53.68	35.86	325.36 -1698.68	505.68		2507.86	2444.78	39.75
12500.00	11942.98	9869.00	9521.82	54.43	35.86	325.36 -1698.68	505.68		2607.81	2544.40	41.13
12600.00	12034.80	9869.00	9521.82	55.18	35.86	325.36 -1698.68	505.68		2707.76	2644.00	42.47
12700.00	12126.62	9869.00	9521.82	55.93	35.86	325.36 -1698.68	505.68		2807.71	2743.58	43.78
12800.00	12218.44	9869.00	9521.82	56.69	35.86	325.36 -1698.68	505.68		2907.66	2843.15	45.07
12900.00	12310.26	9869.00	9521.82	57.44	35.86	325.36 -1698.68	505.68		3007.62	2942.71	46.33



Weatherford®

Weatherford Drilling Services

GeoDec v5.03

Report Date: December 03, 2012
Job Number: _____
Customer: Occidental Permian Ltd.
Well Name: Lost Tank 3 Fed #22
API Number: _____
Rig Name: _____
Location: Eddy Co., NM
Block: _____
Engineer: Patrick Rudolph

US State Plane 1927	Geodetic Latitude / Longitude
System: New Mexico East 3001 (NON-EXACT)	System: Latitude / Longitude
Projection: SPC27 Transverse Mercator	Projection: Geodetic Latitude and Longitude
Datum: NAD 1927 (NADCON CONUS)	Datum: NAD 1927 (NADCON CONUS)
Ellipsoid: Clarke 1866	Ellipsoid: Clarke 1866
North/South 517979.200 USFT	Latitude 32.4228169 DEG
East/West 671179.100 USFT	Longitude -103.7785761 DEG
Grid Convergence: 30°	
Total Correction: +7.32°	

Geodetic Location WGS84	Elevation =	0.0 Meters
Latitude =	32.42282° N	32° 25 min 22.141 sec
Longitude =	103.77858° W	103° 46 min 42.874 sec

Magnetic Declination =	7.62°	[True North Offset]	
Local Gravity =	.9988 g	Checksum =	6599
Local Field Strength =	48576 nT	Magnetic Vector X =	23884 nT
Magnetic Dip =	60.26°	Magnetic Vector Y =	3196 nT
Magnetic Model =	bggm2012	Magnetic Vector Z =	42178 nT
Spud Date =	Dec 05, 2012	Magnetic Vector H =	24097 nT

Signed: _____

Date: _____

**Lost Tank 4 Federal 22
30-015-40774
OXY USA Inc.
December 28, 2012
Conditions of Approval**

- 1. Operator was given an oral approval on December 9, 2012 to set a DV tool at 1150-1200'. Operator is required to submit sundry within five business days of such approval. Sundry has not been received.**
- 2. Proposal for plugs is approved even though the bottom plug will not seal the Bone Spring properly due to the current stuck pipe.**
- 3. Operator shall provide a detailed list of all items left in the hole.**
- 4. Operator shall drill the sidetrack and remainder of hole using the original Conditions of Approval.**

WWI 122812