

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

ooc 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.

SUBMIT IN TRIPLICATE - Other instructions on reverse side.

1. Type of Well ☒ Oil Well ☐ Gas Well ☐ Other		5. Lease Serial No. NMNM06245
2. Name of Operator OXY USA WTP LP		6. If Indian, Allottee or Tribe Name
3a. Address PO BOX 4294 HOUSTON, TX 77210		7. If Unit or CA/Agreement, Name and/or No.
3b. Phone No. (include area code) Ph: 713-513-6640		8. Well Name and No. MISTY 35 FEDERAL COM 4H
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) Sec 35 T18S R30E SESE 1223FSL 386FEL		9. API Well No. 30-015-41413
		10. Field and Pool, or Exploratory LEO; BONE SPRING, SOUTH
		11. County or Parish, and State EDDY COUNTY, NM

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

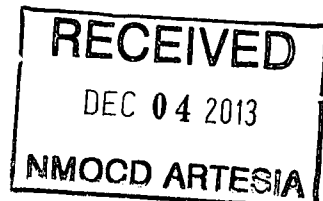
TYPE OF SUBMISSION	TYPE OF ACTION			
☒ Notice of Intent	☐ Acidize	☐ Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off
☐ Subsequent Report	☐ Alter Casing	☐ Fracture Treat	☐ Reclamation	☐ Well Integrity
☐ Final Abandonment Notice	☐ Casing Repair	☐ New Construction	☐ Recomplete	☒ Other
	☐ Change Plans	☐ 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 recompleat 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.)

OXY USA WTP LP respectfully request that the location of this well be moved to the above location from the approved location on the APD. Attached, please find a new plat package and drilling plan to match the above location. If you have any questions or concerns, please feel free to contact me at any time.

Accepted for record

NMOCD



Pomosh Appeal 11/25/13 JSR
Eng rev 11/25/13 CRW

12/4/13
OK Sur-line Legality 11-25-2013 ZA-13-021

Original
CONS
Apply

14. I hereby certify that the foregoing is true and correct.	
Electronic Submission #224150 verified by the BLM Well Information System For OXY USA WTP LP, sent to the Carlsbad Committed to AFMSS for processing by JUNE CARRASCO on 10/23/2013 ()	
Name (Printed/Typed) JENNIFER A DUARTE	Title REGULATORY SPECIALIST
Signature (Electronic Submission)	Date 10/23/2013

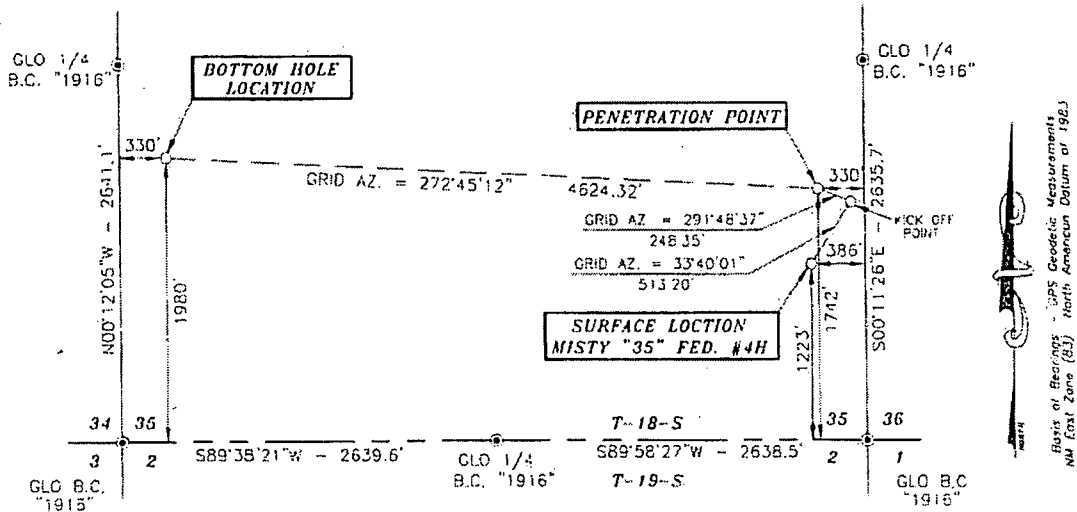
THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By <u>Stephen J. Calhoun</u>	Title FIELD MANAGER	Date DEC - 2 2013
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 FIELD OFFICE

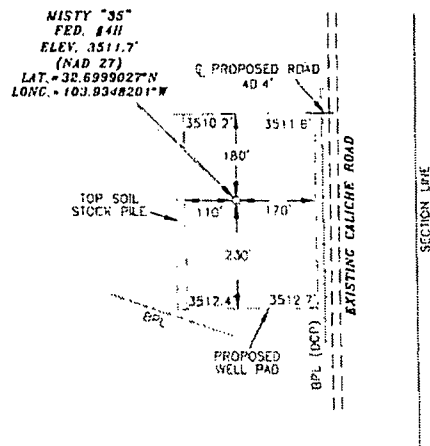
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

**** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED ****

SECTION 35, TOWNSHIP 18 SOUTH, RANGE 30 EAST, N.M.P.M.,
EDDY COUNTY NEW MEXICO



DIRECTIONS:
BEGINNING IN LOCO HILLS AT THE
INTERSECTION OF COUNTY ROAD #217
AND U.S. HWY. #82, GO EAST ON U.S.
HWY. #82 FOR 6.1 MILES TO COUNTY
ROAD #222, TURN RIGHT AND GO SOUTH
FOR 6.8 MILES, TURN RIGHT ON COUNTY
ROAD #250 (GRUBBS ROAD) AND GO
SOUTHWEST/WEST FOR 2.7 MILES, TURN
LEFT ON EXISTING ROAD AND GO
SOUTHWEST/SOUTH FOR 0.8 MILES.
TURN LEFT AND GO SOUTH FOR 0.2
MILES, TURN RIGHT ON PROPOSED ROAD
AND GO WEST FOR 40.4 FEET TO
LOCATION.



SURVEYORS CERTIFICATE

I, TERRY J. ASEL, NEW MEXICO PROFESSIONAL SURVEYOR
NO. 15079, DO HEREBY CERTIFY THAT I CONDUCTED AND AM
RESPONSIBLE FOR THIS SURVEY, THAT THIS SURVEY IS
TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND
BELIEF, AND MEETS THE "MINIMUM STANDARDS FOR
SURVEYING IN NEW MEXICO" AS ADOPTED BY THE NEW
MEXICO STATE BOARD OF REGISTRATION FOR
PROFESSIONAL ENGINEERS AND SURVEYORS.

Terry J. Asel 2/27/2013
Terry J. Asel, N.M. R.P.L.S. No. 15079

Asel Surveying

P.O. BOX 393 - 310 W TAYLOR
HOBBS, NEW MEXICO - 575-393-8146



LEGEND

⊙ - DENOTES FOUND MONUMENT AS NOTED

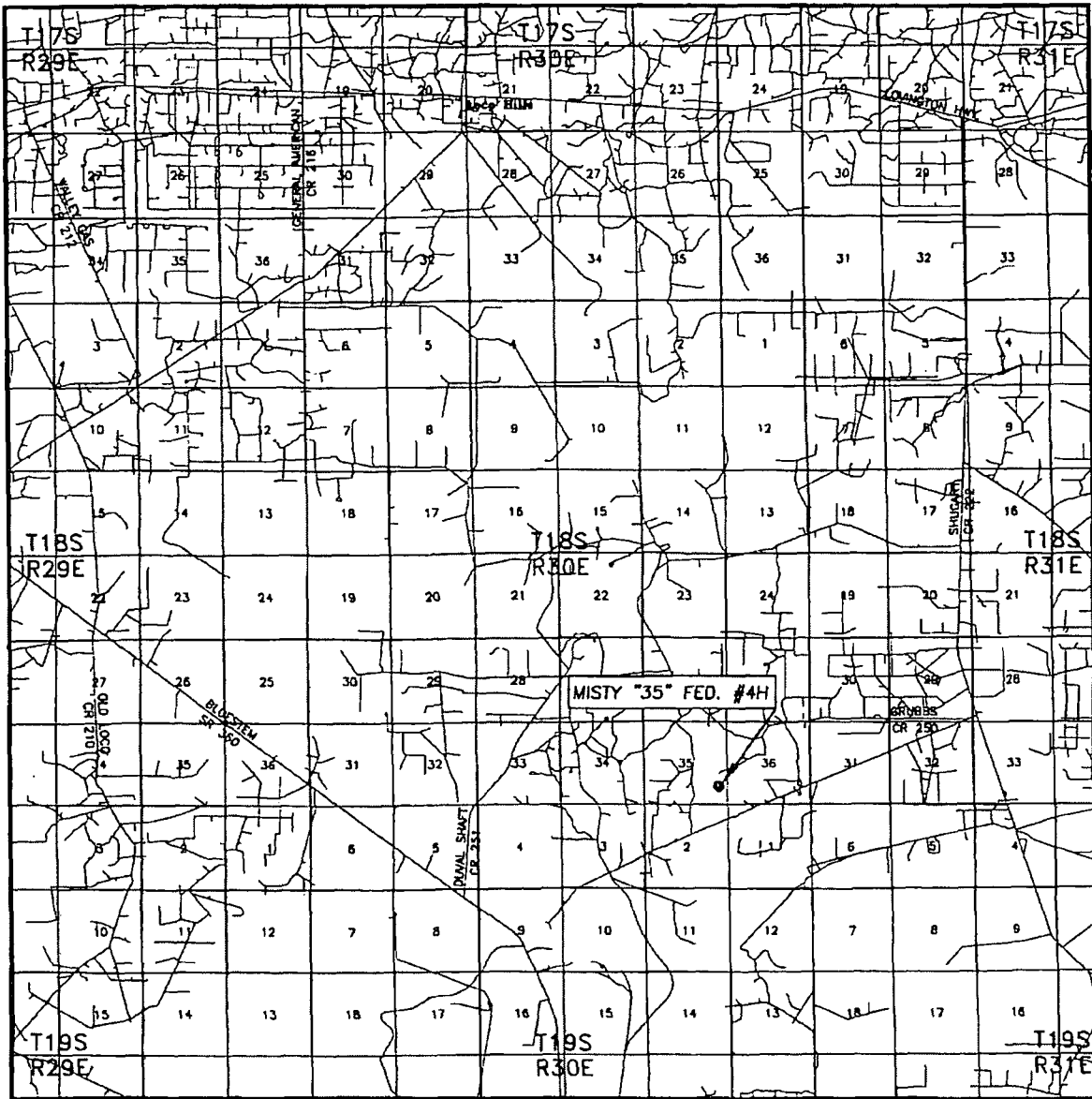
1000' 0 1000' 2000' FEET
SCALE: 1"=1000'

OXY USA WTP LP

MISTY "35" FED. #4H LOCATED AT
1223' FSL & 366' FEL IN SECTION 35,
TOWNSHIP 18 SOUTH, RANGE 30 EAST,
N.M.P.M., EDDY COUNTY, NEW MEXICO

Survey Date: 02/14/13	Sheet 1 of 1 Sheets
W.O. Number: 110721WL-c (Rev. C)	Drawn By: KA Rev: C
Date: 02/26/13	110721WL-c Scale: 1"=1000'

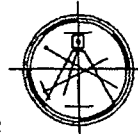
VICINITY MAP



SEC. 35 TWP. 18-S RGE. 30-E
 SURVEY N.M.P.M.
 COUNTY EDDY
 DESCRIPTION 1223' FSL & 386' FEL
 ELEVATION 3511.7'
 OPERATOR OXY USA WTP LP
 LEASE MISTY "35" FED. #4H

SCALE: 1" = 2 MILES

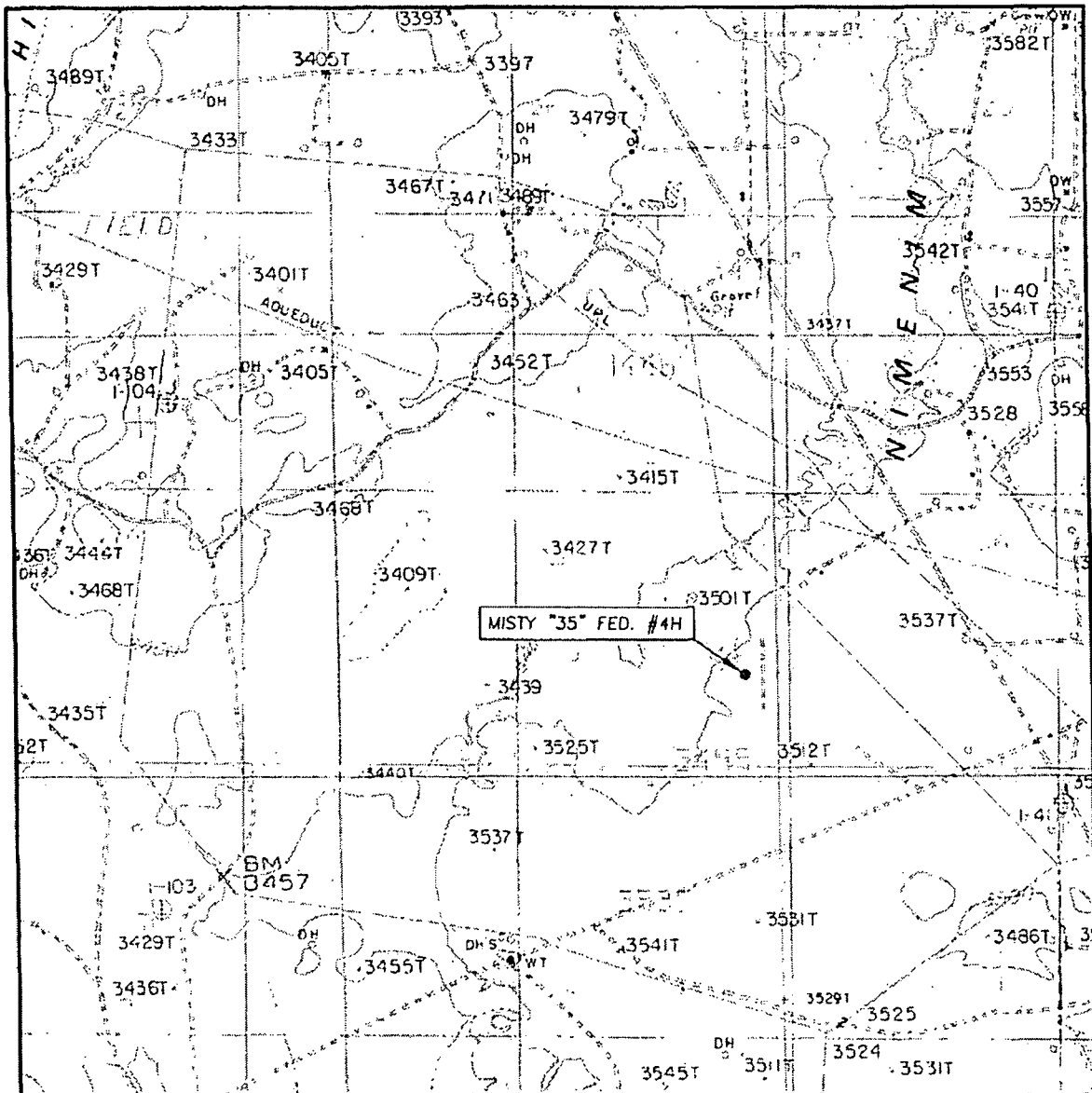
Asel Surveying



P.O. BOX 393 - 310 W. TAYLOR
 HOBBS, NEW MEXICO - 575-393-9146

DIRECTIONS BEGINNING IN LOCO HILLS AT THE INTERSECTION OF COUNTY ROAD #217 AND U.S. HWY. #82, GO EAST ON U.S. HWY. #82 FOR 6.1 MILES TO COUNTY ROAD #222, TURN RIGHT AND GO SOUTH FOR 6.8 MILES, TURN RIGHT ON COUNTY ROAD #250 (GRUBBS ROAD) AND GO SOUTHWEST / WEST FOR 2.7 MILES, TURN LEFT ON EXISTING ROAD AND GO SOUTHWEST/SOUTH FOR 0.8 MILES, TURN LEFT AND GO SOUTH FOR 0.2 MILES, TURN RIGHT ON PROPOSED ROAD AND GO WEST FOR 40.4 FEET TO LOCATION.

LOCATION VERIFICATION MAP



SCALE: 1" = 2000'

CONTOUR INTERVAL: 10'

SEC. 35 TWP. 18-S RGE. 30-E

SURVEY N.M.P.M.

COUNTY EDDY

DESCRIPTION 1223' FSL & 386' FEL

ELEVATION 3511.7'

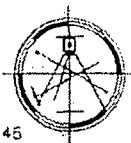
OPERATOR OXY USA WTRLP

LEASE MISTY "35" FED. #4H

U.S.G.S. TOPOGRAPHIC MAP
HACKBERRY LAKE, N.M.

Asel Surveying

P.O. BOX 393 - 310 W. TAYLOR
HOBBS, NEW MEXICO - 575-393-9146



OXY USA Inc
Misty 35 Federal #4H
APD Data

OPERATOR NAME / NUMBER: OXY USA Inc

LEASE NAME / NUMBER: Misty 35 Federal #4H

STATE: NM **COUNTY:** Eddy

SURFACE LOCATION: 1223' FSL & 386' FEL, Sec 35, T18S, R30E

BOTTOM HOLE LOCATION: 1980' FSL & 330' FWL, Sec. 35, T18S, R30E

C-102 PLAT APPROX GR ELEV: 3511.7' **EST KB ELEV:** 3535.7' (24' KB)

1. GEOLOGIC NAME OF SURFACE FORMATION

a. Permian

2. ESTIMATED TOPS OF GEOLOGICAL MARKERS & DEPTHS OF ANTICIPATED FRESH WATER, OIL OR GAS

Formation Tops	TV Depth Top	Expected Fluid
T. Rustler	450 --	
T. Salado	735 --	
T. Tansill (B. Salt)	1920 --	
T. Yates	2070 --	
T. Seven Rivers	2405 --	
T. Queen	3095 --	
T. Delaware	4305	Oil/Gas
T. 1st Bone Spring Lime	5975	Oil/Gas
T. 1st Bone Spring Sand	7610	Oil/Gas
T. 2nd Bone Spring Lime	7910	Oil/Gas
T. 2nd Bone Spring Sand	8550	Oil/Gas
Target 2nd Bone Spring Sand	8634	Oil/Gas

Fresh water may be encountered above the Rustler formation. Surface casing will be set below the top of the Rustler to protect it.

GREATEST PROJECTED TD 13237' MD/ 8634' TVD **OBJECTIVE:** 2nd Bone Spring Sand

3. CASING PROGRAM (ALL NEW CASING)

Surface Casing: 13.375" casing set at ± 480' MD/480' TVD in a 16" hole filled with 8.90 ppg mud

Interval	Length	Wt	Gr	Cplg	Coll Rating (psi)	Burst Rating (psi)	Jt Str (M-lbs)	ID (in)	Drift (in)	SF Coll	SF Burst	SF Ten
0' - 480' ⁵²⁵	480'	48	H-40	ST&C	770	1730	322	12.715	12.557	3.46	1.42	12.05

Intermediate Casing: 9.625" casing set at 3600' MD / 3600' TVD in a 12.25" hole filled with 10 ppg mud

Interval	Length	Wt	Gr	Cplg	Coll Rating (psi)	Burst Rating (psi)	Jt Str (M-lbs)	ID (in)	Drift (in)	SF Coll	SF Burst	SF Ten
0' - 3600' ³⁷⁰⁰	3600'	36	J-55	LT&C	2570	3950	520	8.84	8.75	1.37	1.32	3.71

Production Casing: 5.5" casing set at ± 13237' MD / 8634' TVD in a 8.75" hole filled with 9.20 ppg mud

Interval	Length	Wt	Gr	Cplg	Coll Rating (psi)	Burst Rating (psi)	Jt Str (M-lbs)	ID (in)	Drift (in)	SF Coll	SF Burst	SF Ten
0' - 13237'	13237'	17	L-80	LT&C	6290	7740	338	4.892	4.767	1.52	2.36	1.72

Collapse and burst loads calculated using Stress Check with actual anticipated loads.

see original COAs

4. CEMENT PROGRAM:

Surface Interval

Interval	Amount sx	Ft of Fill	Type	Gal/Sk	PPG	Ft ³ /sk	24 Hr Comp
Surface (TOC: 0' - 480')							
Lead: 0' - 353' (165% Excess)	380	353	Premium Plus cement with 2% Calcium Chloride, 4% Bentonite, 0.125 lbm/sl Poly-E-Flake	9.18	13.5	1.75	589 psi
Tail: 353' - 480' ^{1525'} (165 % Excess)	200	127	Premium Plus cement with 94 lbm/sk Premium Plus Cement, 2% Calcium Chloride	6.39	14.80	1.35	1608 psi

Intermediate Interval

Interval	Amount sx	Ft of Fill	Type	Gal/Sk	PPG	Ft ³ /sk	24 Hr Comp
Intermediate (TOC: 0' - 3600')							
Lead: 0' - 3210' (105% Excess)	1040	3210'	Light Premium Plus Cement, with 5% Salt, 3lb-sk Kol Seal, 0.125 lb/sk Poly-E-Flake	9.68	12.9	1.87	840 psi
Tail: 3210' - 3600' ^{3720'} (105 % Excess)	200	390'	Premium Plus cement with 1% Calcium Chloride	6.36	14.80	1.34	2125 psi

Production Interval

Interval	Amount sx	Ft of Fill	Type	Gal/Sk	PPG	Ft ³ /sk	24 Hr Comp
Production (TOC: 3100' - 13237') Single Stage							
Lead: 3100' - 7900' (80% Excess)	740	4800'	Premium Cement, 14.8 lb/sk Silicalite 50/50 Blend, 15 lb/sk Scotchlite HGS-6000, 0.5 lb/sk CFR-3, 0.15 lb/sk WG-17, 1 lb/sk Cal-Seal 60, 1.5 lb/sk Salt, 2% Calcium Chloride-Flake	12.45	10.60	2.69	646 psi
Tail: 7900' - 13237' (40% Excess)	1160	5336'	Super H Cement, 3 lbm/sk Kol-Seal, 3 lbm/sk Salt, 0.125 lbm/sk Poly-E-Flake, 0.2 % and HR-601, & 0.5% Halad-344, 0.4% CFR 3.	8.40	13.2	1.66	1750 psi

Cement Additives: *Bentonite (light weight additive), Calcium Chloride (accelerator), Halad-344 (low fluid loss control), HR-601 (retarder), Kol-Seal (lost circulation additive), Salt (salt), Poly-E-Flake (lost circulation additive), Silicalite (Additive Material), CFR-3 (Dispersant), Schotchlite HGS 6000 (Light Weight Additive), WG-17 (Gelling Agent), Cal-Seal 60 (Accelerator)

5. DIRECTIONAL PLAN

Please see attached directional plan

6. PRESSURE CONTROL EQUIPMENT

Surface: 0 - 480' None.

Intermediate: 0 - 3600' Intermediate hole will be drilled with a 13-5/8" 10M three ram stack w/ 5M annular preventer, & 5M Choke Manifold.

Production: 0 - 13237' Production hole will be drilled with a 13-5/8" 10M three ram stack w/ 5M annular preventer, & 5M Choke Manifold. Oxy requires this section to be drilled using a 5M stack. This is also compliant with On-shore Order #2.

- a. All BOP's and associated equipment will be tested in accordance with Onshore Order #2 (250/5000 psi on rams for 10 minutes each and 250/3500 for 10 minutes for annular preventer, equal to 70% of working pressure) with a third party BOP testing service before drilling out the 13-3/8" casing shoe. Wellhead pressure rating will support this test and 13-3/8" casing will be protected from high pressure. Since the wellhead system is a multibowl design, this initial test will cover the requirements prior to drilling out the 9-5/8" casing shoe.
- b. Pipe rams will be operated and checked each 24 hour period and each time the drill pipe is out of the hole. These functional tests will be documented on the daily driller's log. A 2" kill line and 3" choke line will be accommodated on the drilling spool below the ram-type BOP. Other accessory BOP equipment will include a Kelly cock, floor safety valve, choke lines, and choke manifold having a 5000 psi WP rating. Oxy requests that the system be tested at 5,000 psi.
- c. Oxy also requests a variance to connect the BOP choke outlet to the choke manifold using a co-flex hose made by Contitech Rubber Industrial KFT. It is a 3" ID x 35' flexible hose rated to 10,000 psi working pressure. It has been tested to 15,000 psi and is built to API Spec 16C. Once the flex line is installed it will be tied down with safety clamps. Please see attached certifications.
- d. See attached BOP & Choke manifold diagrams.

e.

7. MUD PROGRAM:

Depth	Mud Wt ppg	Vis Sec	Fluid Loss	Type System
0 - 480' ⁵²⁵	8.4 - 8.9	32 - 34	NC	Fresh Water /Spud Mud
480' - 3600'	9.8 - 10.0	28 - 29	NC	Brine Water
3600' - 8000'	8.6 - 8.8	28 - 29	NC	Fresh Water
8000' - TD'	9.0 - 9.2	40 - 50	8 - 15	Salt Gel/Duo Vis

Remarks: Pump high viscosity sweeps as needed for hole cleaning. The mud system will be monitored visually/manually as well as with an electronic PVT. The necessary mud products for additional weight and fluid loss control will be on location at all times.

Appropriately weighted mud will be used to isolate potential gas, oil, and water zones until such time as casing can be cemented into place for zonal isolation.

8. AUXILIARY WELL CONTROL AND MONITORING EQUIPMENT

- a. A full opening drill pipe stabbing valve having the appropriate connections will be on the rig floor unobstructed and readily accessible at all times.

9. LOGGING / CORING AND TESTING PROGRAM:

- A. Mud Logger: Base of Intermediate Casing to TD.
- B. DST's: None.
- C. Open Hole Logs as follows: GR-NEU-DEN-RES from KOP to Int Casing shoe. GR-NEU from KOP to surface. MWD-GR from kick-off point to TD.

10. POTENTIAL HAZARDS:

- A. H2S detection equipment will be in operation after drilling out the surface casing shoe until the production casing has been cemented. Breathing equipment will be on location from drilling out the surface shoe until production casing is cemented. If H2S is encountered the operator will comply with Onshore Order #6.
- B. The bottomhole pressure is anticipated to be between **4000 psi and 4100 psi**.
- C. No abnormal temperatures or pressures are anticipated. **The highest anticipated pressure gradient is 0.47 psi/ft.** All personnel will be familiar with all aspects of safe operation of equipment being used to drill this well. Adequate flare lines will be installed off the mud/gas separator where gas may be flared safely.

11. ANTICIPATED STARTING DATE AND DURATION OF OPERATIONS

Road and location construction will begin after the BLM has approved the APD. Anticipated spud date will be as soon as possible after BLM approval and as soon as a rig will be available. Move in operations and drilling is expected to take 35 days. If production casing is run, then an additional 30 days will be needed to complete the well and construct surface facilities and/or lay flow lines in order to place well on production.

12. COMPANY PERSONNEL:

<u>Name</u>	<u>Title</u>	<u>Office Phone</u>	<u>Mobile Phone</u>
Carlos Mercado	Drilling Engineer	713-366-5418	281-455-3481
Sebastian Millan	Drilling Engineer Supervisor	713-350-4950	832-528-3268
Roger Allen	Drilling Superintendent	713-215-7617	281-682-3919
Douglas Chester	Drilling Manager	713-366-9124	713-918-9124



Weatherford[®]

Drilling Services

Proposal



OCCIDENTAL PERMIAN LTD.

MISTY 35 FED #4H

EDDY CO., NEW MEXICO

WELL FILE: **PLAN 6**

FEBRUARY 21, 2013

Weatherford International, Ltd.

P.O. Box 61028

Midland, TX 79711 USA

+1.432.561.8892 Main

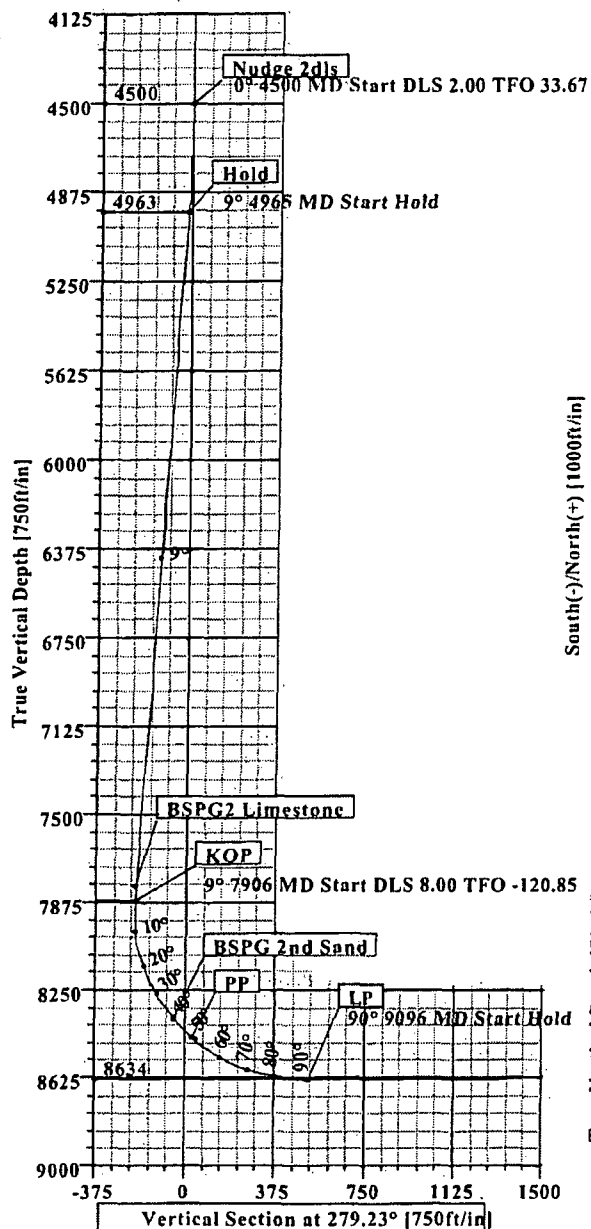
+1.432.561.8895 Fax

www.weatherford.com



Misty 35 Fed #4H Eddy Co, New Mexico

KB ELEV: 3535.7
GL ELEV: 3511.7



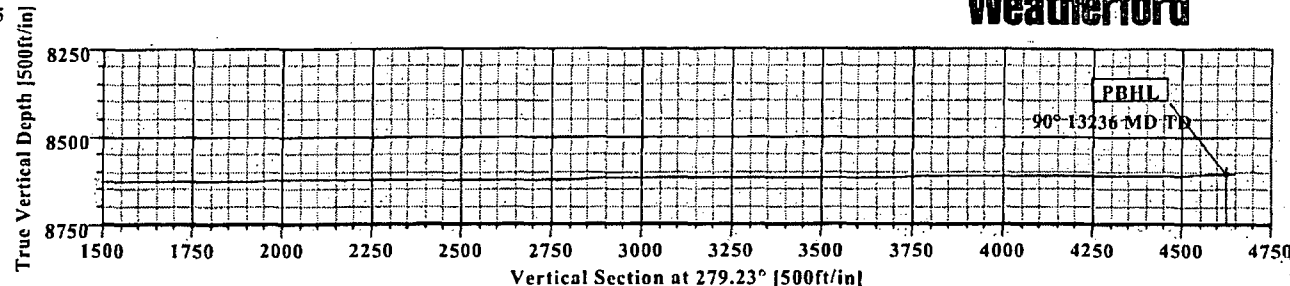
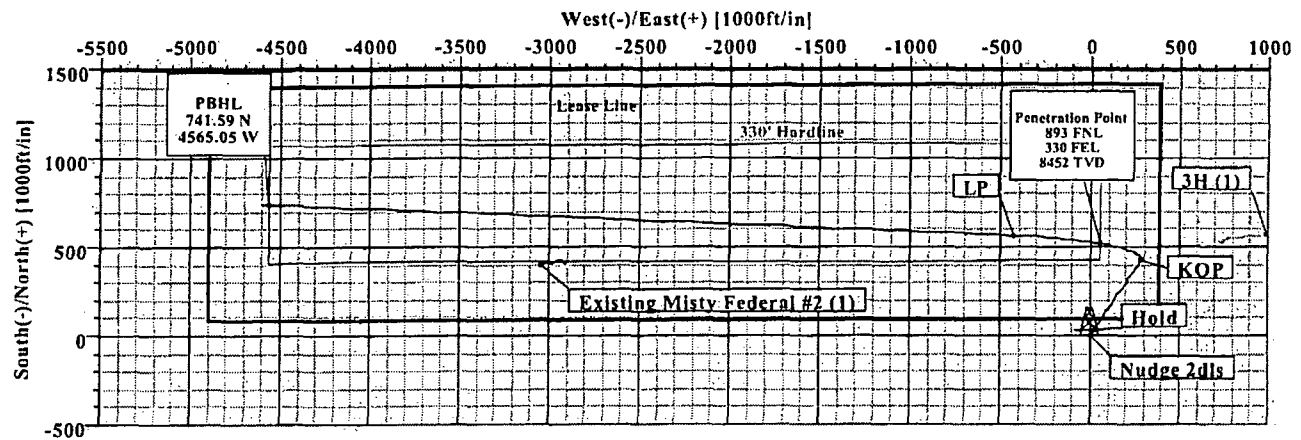
SECTION DETAILS										
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	0.00	0.00	319.18	0.00	0.00	0.00	0.00	0.00	0.00	
2	4500.00	0.00	319.18	4500.00	0.00	0.00	0.00	319.18	0.00	
3	4965.28	9.31	33.67	4963.24	31.38	20.90	2.00	33.67	-15.60	
4	7906.10	9.31	33.67	7865.36	427.15	284.52	0.00	0.00	-212.32	
5	9095.51	90.35	272.43	8634.00	565.88	-428.20	8.00	-120.85	513.42	
6	13236.17	90.35	272.43	8609.00	741.59	-4565.05	0.00	0.00	4624.90	PBHL

TARGET DETAILS						
Name	TVD	+N/-S	+E/-W	Northing	Easting	Shape
PBHL	8609.00	741.59	-4565.05	619307.49	618024.75	Point

WELL DETAILS							
Name	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
Misty 35 Fed #4H	0.00	0.00	618565.90	622589.80	32°41'59.649N	103°56'05.353W	N/A

SITE DETAILS	
Misty 35 Fed #4H	
Site Centre Northing:	618565.90
Easting:	622589.80
Ground Level:	3511.70
Positional Uncertainty:	0.00
Convergence:	0.22

LEGEND	
	Existing Misty Federal #2 (1)
	Ivore Federal #211 (1)
	Misty 35 Fed #3H (1)
	3H (1)
	Plan #6





Weatherford International Ltd.

WFT Plan Report - X & Y's



Weatherford

Company: Occidental Permian Ltd. Date: 2/21/2013 Time: 17:21:02 Page: 1
 Field: Eddy Co, NM (Nad 27) Co-ordinate(NE) Reference: Well: Misty 35 Fed #4H, Grid North
 Site: Misty 35 Fed #4H Vertical (TVD) Reference: SITE 3535.7
 Well: Misty 35 Fed #4H Section (VS) Reference: Well (0.00N,0.00E,279.23Azi)
 Wellpath: 1 Survey Calculation Method: Minimum Curvature Db: Sybase

Plan: Plan #6 Date Composed: 2/21/2013
 Principal: Yes Version: 1
 Tied-to: From Surface

Site: Misty 35 Fed #4H

Site Position: Northing: 618565.90 ft Latitude: 32 41 59.649 N
 From: Map Easting: 622589.80 ft Longitude: 103 56 5.353 W
 Position Uncertainty: 0.00 ft North Reference: Grid
 Ground Level: 3511.70 ft Grid Convergence: 0.22 deg

Well: Misty 35 Fed #4H Slot Name:
 Well Position: +N/-S 0.00 ft Northing: 618565.90 ft Latitude: 32 41 59.649 N
 +E/-W 0.00 ft Easting: 622589.80 ft Longitude: 103 56 5.353 W
 Position Uncertainty: 0.00 ft

Wellpath: 1 Drilled From: Surface
 Current Datum: SITE Height 3535.70 ft Tie-on Depth: 0.00 ft
 Magnetic Data: 12/1/2012 Above System Datum: Mean Sea Level
 Field Strength: 48742 nT Declination: 7.61 deg
 Vertical Section: Depth From (TVD) +N/-S +E/-W Mag Dip Angle: 60.53 deg
 ft ft ft deg
 0.00 0.00 0.00 279.23

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
0.00	0.00	319.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
4500.00	0.00	319.18	4500.00	0.00	0.00	0.00	0.00	0.00	319.18	
4965.28	9.31	33.67	4963.24	31.38	20.90	2.00	2.00	16.01	33.67	
7906.10	9.31	33.67	7865.36	427.15	284.52	0.00	0.00	0.00	0.00	
9095.51	90.35	272.43	8634.00	565.88	-428.20	8.00	6.81	-10.19	-120.85	
13236.17	90.35	272.43	8609.00	741.59	-4565.05	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
4500.00	0.00	319.18	4500.00	0.00	0.00	0.00	0.00	618565.90	622589.80	Nudge 2dls
4600.00	2.00	33.67	4599.98	1.45	0.97	-0.72	2.00	618567.35	622590.77	
4700.00	4.00	33.67	4699.84	5.81	3.87	-2.89	2.00	618571.71	622593.67	
4800.00	6.00	33.67	4799.45	13.06	8.70	-6.49	2.00	618578.96	622598.50	
4900.00	8.00	33.67	4898.70	23.20	15.46	-11.53	2.00	618589.10	622605.26	
4965.28	9.31	33.67	4963.24	31.38	20.90	-15.60	2.00	618597.28	622610.70	Hold
5000.00	9.31	33.67	4997.50	36.05	24.01	-17.92	0.00	618601.95	622613.81	
5100.00	9.31	33.67	5096.18	49.51	32.98	-24.61	0.00	618615.41	622622.78	
5200.00	9.31	33.67	5194.87	62.97	41.94	-31.30	0.00	618628.87	622631.74	
5300.00	9.31	33.67	5293.55	76.42	50.90	-37.99	0.00	618642.32	622640.70	
5400.00	9.31	33.67	5392.24	89.88	59.87	-44.68	0.00	618655.78	622649.67	
5500.00	9.31	33.67	5490.92	103.34	68.83	-51.37	0.00	618669.24	622658.63	
5600.00	9.31	33.67	5589.60	116.80	77.80	-58.05	0.00	618682.70	622667.60	
5700.00	9.31	33.67	5688.29	130.26	86.76	-64.74	0.00	618696.16	622676.56	
5800.00	9.31	33.67	5786.97	143.71	95.72	-71.43	0.00	618709.61	622685.52	
5900.00	9.31	33.67	5885.66	157.17	104.69	-78.12	0.00	618723.07	622694.49	
6000.00	9.31	33.67	5984.34	170.63	113.65	-84.81	0.00	618736.53	622703.45	
6100.00	9.31	33.67	6083.02	184.09	122.62	-91.50	0.00	618749.99	622712.42	
6200.00	9.31	33.67	6181.71	197.55	131.58	-98.19	0.00	618763.45	622721.38	
6300.00	9.31	33.67	6280.39	211.00	140.54	-104.88	0.00	618776.90	622730.34	
6400.00	9.31	33.67	6379.08	224.46	149.51	-111.57	0.00	618790.36	622739.31	



Weatherford International Ltd.

WFT Plan Report - X & Y's



Weatherford

Company: Occidental Permian Ltd. Date: 2/21/2013 Time: 17:21:02 Page: 2
 Field: Eddy Co, NM (Nad 27) Co-ordinate(NE) Reference: Well: Misty 35 Fed #4H, Grid North
 Site: Misty 35 Fed #4H Vertical (TVD) Reference: SITE 3535.7
 Well: Misty 35 Fed #4H Section (VS) Reference: Well (0.00N,0.00E,279.23Azi)
 Wellpath: 1 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
6500.00	9.31	33.67	6477.76	237.92	158.47	-118.26	0.00	618803.82	622748.27	
6600.00	9.31	33.67	6576.44	251.38	167.44	-124.95	0.00	618817.28	622757.24	
6700.00	9.31	33.67	6675.13	264.84	176.40	-131.64	0.00	618830.74	622766.20	
6800.00	9.31	33.67	6773.81	278.29	185.36	-138.33	0.00	618844.19	622775.16	
6900.00	9.31	33.67	6872.50	291.75	194.33	-145.02	0.00	618857.65	622784.13	
7000.00	9.31	33.67	6971.18	305.21	203.29	-151.71	0.00	618871.11	622793.09	
7100.00	9.31	33.67	7069.86	318.67	212.26	-158.40	0.00	618884.57	622802.06	
7200.00	9.31	33.67	7168.55	332.13	221.22	-165.08	0.00	618898.03	622811.02	
7300.00	9.31	33.67	7267.23	345.58	230.19	-171.77	0.00	618911.48	622819.99	
7400.00	9.31	33.67	7365.92	359.04	239.15	-178.46	0.00	618924.94	622828.95	
7500.00	9.31	33.67	7464.60	372.50	248.11	-185.15	0.00	618938.40	622837.91	
7600.00	9.31	33.67	7563.28	385.96	257.08	-191.84	0.00	618951.86	622846.88	
7700.00	9.31	33.67	7661.97	399.42	266.04	-198.53	0.00	618965.32	622855.84	
7800.00	9.31	33.67	7760.65	412.87	275.01	-205.22	0.00	618978.77	622864.81	
7844.94	9.31	33.67	7805.00	418.92	279.03	-208.23	0.00	618984.82	622868.83	BSPG2 Limestone
7906.10	9.31	33.67	7865.36	427.15	284.52	-212.32	0.00	618993.05	622874.32	KOP
7950.00	8.08	11.70	7908.76	433.13	287.11	-213.92	8.00	618999.03	622876.91	
8000.00	8.42	343.66	7958.26	440.09	286.79	-212.49	8.00	619005.99	622876.59	
8050.00	10.41	322.21	8007.60	447.18	282.99	-207.60	8.00	619013.08	622872.79	
8100.00	13.33	308.76	8056.54	454.36	275.73	-199.28	8.00	619020.26	622865.53	
8150.00	16.69	300.35	8104.83	461.60	265.03	-187.56	8.00	619027.50	622854.83	
8200.00	20.28	294.77	8152.25	468.86	250.96	-172.51	8.00	619034.76	622840.76	
8250.00	24.00	290.83	8198.55	476.11	233.58	-154.19	8.00	619042.01	622823.38	
8300.00	27.79	287.91	8243.53	483.31	212.98	-132.70	8.00	619049.21	622802.78	
8350.00	31.63	285.64	8286.95	490.43	189.25	-108.14	8.00	619056.33	622779.05	
8400.00	35.50	283.81	8328.60	497.44	162.52	-80.63	8.00	619063.34	622752.32	
8450.00	39.40	282.31	8368.29	504.29	132.91	-50.30	8.00	619070.19	622722.71	
8452.21	39.57	282.25	8370.00	504.59	131.53	-48.89	8.00	619070.49	622721.33	BSPG 2nd Sand
8500.00	43.31	281.03	8405.82	510.95	100.56	-17.30	8.00	619076.85	622690.36	
8550.00	47.23	279.93	8441.00	517.40	65.64	18.20	8.00	619083.30	622655.44	
8566.00	48.49	279.61	8451.74	519.42	53.95	30.06	8.00	619085.32	622643.75	PP
8578.59	49.48	279.36	8460.00	520.98	44.58	39.56	8.00	619086.88	622634.38	BSPG 2nd Sand Tgt
8600.00	51.16	278.96	8473.67	523.61	28.31	56.04	8.00	619089.51	622618.11	
8650.00	55.10	278.09	8503.66	529.53	-11.24	96.03	8.00	619095.43	622578.56	
8700.00	59.05	277.30	8530.84	535.14	-52.82	137.97	8.00	619101.04	622536.98	
8750.00	62.99	276.58	8555.06	540.42	-96.23	181.67	8.00	619106.32	622493.57	
8800.00	66.95	275.90	8576.21	545.34	-141.26	226.90	8.00	619111.24	622448.54	
8850.00	70.90	275.26	8594.19	549.87	-187.68	273.45	8.00	619115.77	622402.12	
8900.00	74.86	274.65	8608.90	554.00	-235.28	321.09	8.00	619119.90	622354.52	
8950.00	78.82	274.07	8620.28	557.70	-283.82	369.60	8.00	619123.60	622305.98	
9000.00	82.78	273.50	8628.27	560.95	-333.06	418.72	8.00	619126.85	622256.74	
9050.00	86.74	272.94	8632.84	563.75	-382.76	468.23	8.00	619129.65	622207.04	
9095.51	90.35	272.43	8634.00	565.88	-428.20	513.42	8.00	619131.78	622161.60	LP
9100.00	90.35	272.43	8633.97	566.07	-432.68	517.88	0.00	619131.97	622157.12	
9200.00	90.35	272.43	8633.37	570.31	-532.59	617.17	0.00	619136.21	622057.21	
9300.00	90.35	272.43	8632.76	574.56	-632.50	716.47	0.00	619140.46	621957.30	
9400.00	90.35	272.43	8632.16	578.80	-732.41	815.76	0.00	619144.70	621857.39	
9500.00	90.35	272.43	8631.56	583.04	-832.31	915.06	0.00	619148.94	621757.49	
9600.00	90.35	272.43	8630.95	587.29	-932.22	1014.35	0.00	619153.19	621657.58	
9700.00	90.35	272.43	8630.35	591.53	-1032.13	1113.65	0.00	619157.43	621557.67	
9800.00	90.35	272.43	8629.74	595.77	-1132.04	1212.94	0.00	619161.67	621457.76	
9900.00	90.35	272.43	8629.14	600.02	-1231.95	1312.24	0.00	619165.92	621357.85	
10000.00	90.35	272.43	8628.54	604.26	-1331.85	1411.53	0.00	619170.16	621257.95	



Weatherford International Ltd.

WFT Plan Report - X & Y's



Weatherford

Company: Occidental Permian Ltd. Date: 2/21/2013 Time: 17:21:02 Page: 3
 Field: Eddy Co, NM (Nad 27) Co-ordinate(NE) Reference: Well: Misty 35 Fed #4H, Grid North
 Site: Misty 35 Fed #4H Vertical (TVD) Reference: SITE 3535.7
 Well: Misty 35 Fed #4H Section (VS) Reference: Well (0.00N,0.00E,279.23Azi)
 Wellpath: 1 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
10100.00	90.35	272.43	8627.93	608.50	-1431.76	1510.83	0.00	619174.40	621158.04	
10200.00	90.35	272.43	8627.33	612.75	-1531.67	1610.12	0.00	619178.65	621058.13	
10300.00	90.35	272.43	8626.73	616.99	-1631.58	1709.42	0.00	619182.89	620958.22	
10400.00	90.35	272.43	8626.12	621.23	-1731.49	1808.71	0.00	619187.13	620858.31	
10500.00	90.35	272.43	8625.52	625.48	-1831.40	1908.01	0.00	619191.38	620758.40	
10600.00	90.35	272.43	8624.91	629.72	-1931.30	2007.30	0.00	619195.62	620658.50	
10700.00	90.35	272.43	8624.31	633.96	-2031.21	2106.60	0.00	619199.86	620558.59	
10800.00	90.35	272.43	8623.71	638.21	-2131.12	2205.89	0.00	619204.11	620458.68	
10900.00	90.35	272.43	8623.10	642.45	-2231.03	2305.19	0.00	619208.35	620358.77	
11000.00	90.35	272.43	8622.50	646.70	-2330.94	2404.48	0.00	619212.60	620258.86	
11100.00	90.35	272.43	8621.90	650.94	-2430.84	2503.78	0.00	619216.84	620158.96	
11200.00	90.35	272.43	8621.29	655.18	-2530.75	2603.07	0.00	619221.08	620059.05	
11300.00	90.35	272.43	8620.69	659.43	-2630.66	2702.37	0.00	619225.33	619959.14	
11400.00	90.35	272.43	8620.08	663.67	-2730.57	2801.67	0.00	619229.57	619859.23	
11500.00	90.35	272.43	8619.48	667.91	-2830.48	2900.96	0.00	619233.81	619759.32	
11600.00	90.35	272.43	8618.88	672.16	-2930.38	3000.26	0.00	619238.06	619659.42	
11700.00	90.35	272.43	8618.27	676.40	-3030.29	3099.55	0.00	619242.30	619559.51	
11800.00	90.35	272.43	8617.67	680.64	-3130.20	3198.85	0.00	619246.54	619459.60	
11900.00	90.35	272.43	8617.07	684.89	-3230.11	3298.14	0.00	619250.79	619359.69	
12000.00	90.35	272.43	8616.46	689.13	-3330.02	3397.44	0.00	619255.03	619259.78	
12100.00	90.35	272.43	8615.86	693.37	-3429.92	3496.73	0.00	619259.27	619159.88	
12200.00	90.35	272.43	8615.26	697.62	-3529.83	3596.03	0.00	619263.52	619059.97	
12300.00	90.35	272.43	8614.65	701.86	-3629.74	3695.32	0.00	619267.76	618960.06	
12400.00	90.35	272.43	8614.05	706.11	-3729.65	3794.62	0.00	619272.01	618860.15	
12500.00	90.35	272.43	8613.44	710.35	-3829.56	3893.91	0.00	619276.25	618760.24	
12600.00	90.35	272.43	8612.84	714.59	-3929.47	3993.21	0.00	619280.49	618660.33	
12700.00	90.35	272.43	8612.24	718.84	-4029.37	4092.50	0.00	619284.74	618560.43	
12800.00	90.35	272.43	8611.63	723.08	-4129.28	4191.80	0.00	619288.98	618460.52	
12900.00	90.35	272.43	8611.03	727.32	-4229.19	4291.09	0.00	619293.22	618360.61	
13000.00	90.35	272.43	8610.43	731.57	-4329.10	4390.39	0.00	619297.47	618260.70	
13100.00	90.35	272.43	8609.82	735.81	-4429.01	4489.68	0.00	619301.71	618160.79	
13200.00	90.35	272.43	8609.22	740.05	-4528.91	4588.98	0.00	619305.95	618060.89	
13236.17	90.35	272.43	8609.00	741.59	-4565.05	4624.90	0.00	619307.49	618024.75	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			8609.00	741.59	-4565.05	619307.49	618024.75	32	42	7.154 N	103	56	58.744 W

Casing Points

MD ft	TVD ft	Diameter in	Hole Size in	Name
475.00	475.00	0.000	0.000	Csg
1925.00	1925.00	0.000	0.000	Csg



Weatherford International Ltd.
WFT Plan Report - X & Y's



Weatherford

Company: Occidental Permian Ltd.
Field: Eddy Co, NM (Nad 27)
Site: Misty 35 Fed #4H
Well: Misty 35 Fed #4H
Wellpath: 1

Date: 2/21/2013 **Time:** 17:21:02 **Page:** 4
Co-ordinate(NE) Reference: Well: Misty 35 Fed #4H, Grid North
Vertical (TVD) Reference: SITE 3535.7
Section (VS) Reference: Well (0.00N,0.00E,279.23Azi)
Survey Calculation Method: Minimum Curvature **Db:** Sybase

Annotation

MD ft	TVD ft	
4500.00	4500.00	Nudge 2dis
4965.28	4963.24	Hold
7906.10	7865.36	KOP
8566.00	8451.74	PP
9095.51	8634.00	LP
13236.17	8609.00	PBHL

Formations

MD ft	TVD ft	Formations	Lithology	Dip Angle deg	Dip Direction deg
7844.94	7805.00	BSPG2 Limestone		0.00	0.00
8452.21	8370.00	BSPG 2nd Sand		0.00	0.00
8578.59	8460.00	BSPG 2nd Sand Tgt		0.00	0.00

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.
Field: Eddy Co, NM (Nad 27)
Reference Site: Misty 35 Fed #4H
Reference Well: Misty 35 Fed #4H
Reference Wellpath: 1

Date: 2/21/2013

Time: 17:00:32

Page: 1

Co-ordinate(NE) Reference: Well: Misty 35 Fed #4H, Grid North
Vertical (TVD) Reference: SITE 3535.7

Db: Sybase

NO GLOBAL SCAN: Using user defined selection & scan criteria
Interpolation Method: MD + Stations Interval: 100.00 ft
Depth Range: 0.00 to 13236.17 ft
Maximum Radius: 10000.00 ft

Reference: Plan: Plan #6
Error Model: ISCWSA Ellipse
Scan Method: Closest Approach 3D
Error Surface: Ellipse

Plan: Plan #6

Date Composed: 2/21/2013

Principal: Yes

Version: 1

Tied-to: From Surface

Summary

Site	Offset Wellpath	Wellpath	Reference MD ft	Offset MD ft	Ctr-Ctr Distance ft	Edge Distance ft	Separation Factor	Warning
Exist. Misty Federal	Existing Misty Feder	1 V0	11700.00	8532.82	273.90	156.94	2.34	
Ivora Federal #2H	Ivora Federal #2H	1 V0 Plan: Plan #1 V1	13236.17	13027.80	1594.05	1352.89	6.61	
Misty 35 Fed #3H	Misty 35 Fed #3H	1 V0 Plan: Plan #2 V1	13236.17	13162.23	1430.14	1190.81	5.98	
Smokey Bits State C&H		1 V1	7950.00	7870.53	483.83	449.21	13.97	

Site: Exist. Misty Federal #2
Well: Existing Misty Federal #2
Wellpath: 1 V0

Inter-Site Error: 0.00 ft

Reference MD ft	Reference TVD ft	Offset MD ft	Offset TVD ft	Semi-Major Axis Ref ft	Offset TFO-HS deg	Offset Location North ft	Offset Location East ft	Ctr-Ctr Distance ft	Edge Distance ft	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	278.23	421.60 -2914.20	2945.79			No Data
100.00	100.00	13.33	13.33	0.09	0.01	278.23	421.60 -2914.20	2944.54	2944.44	29839.19	
200.00	200.00	112.28	112.28	0.31	0.12	278.23	421.70 -2914.33	2944.68	2944.25	6866.33	
300.00	300.00	268.41	268.40	0.53	0.38	278.23	421.36 -2912.82	2943.64	2942.72	3206.38	
400.00	400.00	383.94	383.91	0.76	0.64	278.23	420.91 -2910.35	2941.45	2940.05	2094.21	
500.00	500.00	455.41	455.35	0.98	0.82	278.23	420.51 -2908.95	2939.48	2937.67	1629.96	
600.00	600.00	522.00	521.95	1.21	0.97	278.22	420.15 -2908.47	2938.67	2936.49	1349.83	
700.00	700.00	600.00	599.93	1.43	1.11	278.20	419.09 -2908.86	2938.93	2936.38	1154.78	
800.00	800.00	680.99	680.91	1.66	1.23	278.17	417.61 -2909.89	2939.90	2937.01	1017.03	
900.00	900.00	793.05	792.94	1.88	1.43	278.13	415.74 -2911.29	2940.90	2937.59	887.19	
1000.00	1000.00	903.06	902.94	2.11	1.66	278.10	414.46 -2912.08	2941.45	2937.68	780.46	
1100.00	1100.00	1009.61	1009.49	2.33	1.91	278.08	413.66 -2912.48	2941.71	2937.48	694.12	
1200.00	1200.00	1109.83	1109.70	2.56	2.15	278.07	412.85 -2912.75	2941.87	2937.16	624.92	
1300.00	1300.00	1208.18	1208.05	2.78	2.40	278.05	411.82 -2913.09	2942.07	2936.89	568.23	
1400.00	1400.00	1313.21	1313.07	3.01	2.66	278.03	410.76 -2913.36	2942.17	2936.50	518.95	
1500.00	1500.00	1414.44	1414.30	3.23	2.92	278.01	409.94 -2913.57	2942.27	2936.11	478.35	
1600.00	1600.00	1545.61	1545.46	3.46	3.22	277.99	408.83 -2912.90	2941.62	2934.93	440.05	
1700.00	1700.00	1652.86	1652.70	3.68	3.45	277.98	407.97 -2911.69	2940.38	2933.24	411.80	
1800.00	1800.00	1749.63	1749.46	3.91	3.65	277.97	407.39 -2910.51	2939.09	2931.54	388.89	
1900.00	1900.00	1837.17	1836.99	4.13	3.79	277.97	407.29 -2909.61	2938.06	2930.14	370.85	
2000.00	2000.00	1915.24	1915.06	4.36	3.88	277.97	407.54 -2909.21	2937.62	2929.38	356.80	
2100.00	2100.00	1982.04	1981.86	4.58	3.93	277.98	407.93 -2909.52	2938.16	2929.65	345.30	
2200.00	2200.00	2072.18	2071.99	4.81	4.00	277.99	408.63 -2910.69	2939.54	2930.73	333.75	
2300.00	2300.00	2161.78	2161.57	5.03	4.08	278.00	409.46 -2911.99	2941.11	2931.99	322.71	
2400.00	2400.00	2243.15	2242.93	5.26	4.17	278.02	410.51 -2913.54	2943.18	2933.76	312.39	
2500.00	2500.00	2325.74	2325.47	5.48	4.26	278.04	411.94 -2915.67	2945.96	2936.22	302.49	
2600.00	2600.00	2424.23	2423.91	5.70	4.39	278.07	413.75 -2918.47	2949.03	2938.95	292.32	
2700.00	2700.00	2533.24	2532.86	5.93	4.54	278.09	415.51 -2921.45	2951.97	2941.51	282.00	
2800.00	2800.00	2648.02	2647.60	6.15	4.72	278.12	417.09 -2924.13	2954.48	2943.61	271.82	
2900.00	2900.00	2766.45	2766.00	6.38	4.91	278.14	418.54 -2926.28	2956.46	2945.17	261.98	
3000.00	3000.00	2876.00	2875.54	6.60	5.09	278.16	419.57 -2927.71	2957.87	2946.18	252.87	
3100.00	3100.00	2970.25	2969.78	6.83	5.27	278.16	420.22 -2928.91	2959.24	2947.14	244.66	
3200.00	3200.00	3076.58	3076.09	7.05	5.47	278.18	421.05 -2930.38	2960.72	2948.20	236.48	
3300.00	3300.00	3174.72	3174.23	7.28	5.66	278.19	421.92 -2931.51	2961.99	2949.06	229.02	
3400.00	3400.00	3274.37	3273.86	7.50	5.86	278.20	422.64 -2932.80	2963.37	2950.01	221.86	



Weatherford International Ltd.

Anticollision Report



Weatherford

Company: Occidental Permian Ltd.
Field: Eddy Co. NM (Nad 27)
Reference Site: Misty 35 Fed #4H
Reference Well: Misty 35 Fed #4H
Reference Wellpath: 1

Date: 2/21/2013

Time: 17:00:32

Page: 2

Co-ordinate(NE) Reference: Well: Misty 35 Fed #4H, Grid North
Vertical (TVD) Reference: SITE 3535.7

Db: Sybase

Site: Exist. Misty Federal #2
Well: Existing Misty Federal #2
Wellpath: 1 VO

Inter-Site Error: 0.00 ft

Reference MD	Reference TVD	Offset MD	Offset TVD	Semi-Major Axis Ref	Semi-Major Axis Offset	Semi-Major Axis 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		
3500.00	3500.00	3384.87	3384.35	7.73	6.08	278.21	423.50	-2934.04	2964.60	2950.79	214.73	
3600.00	3600.00	3493.01	3492.49	7.95	6.31	278.22	424.06	-2934.90	2965.46	2951.20	207.98	
3700.00	3700.00	3593.41	3592.89	8.18	6.53	278.23	424.34	-2935.59	2966.18	2951.47	201.72	
3800.00	3800.00	3691.33	3690.80	8.40	6.75	278.23	424.55	-2936.31	2966.93	2951.78	195.82	
3900.00	3900.00	3795.79	3795.26	8.63	6.98	278.23	424.89	-2937.03	2967.66	2952.05	190.13	
4000.00	4000.00	3893.88	3893.35	8.85	7.20	278.24	425.27	-2937.63	2968.33	2952.28	184.92	
4100.00	4100.00	4000.03	3999.50	9.08	7.45	278.24	425.42	-2938.27	2968.94	2952.42	179.67	
4200.00	4200.00	4106.85	4106.31	9.30	7.69	278.24	425.56	-2938.62	2969.29	2952.30	174.79	
4300.00	4300.00	4188.60	4188.07	9.53	7.87	278.24	425.81	-2939.06	2969.87	2952.47	170.74	
4400.00	4400.00	4289.14	4288.60	9.75	8.11	278.25	426.11	-2939.95	2970.78	2952.93	166.36	
4500.00	4500.00	4376.77	4376.22	9.98	8.32	278.25	426.25	-2940.85	2971.83	2953.53	162.45	
4600.00	4599.98	4471.70	4471.15	10.19	8.55	244.59	426.38	-2942.19	2973.99	2955.25	158.71	
4700.00	4699.84	4580.40	4579.83	10.39	8.82	244.55	426.53	-2943.65	2977.59	2958.38	155.04	
4800.00	4799.45	4679.84	4679.27	10.60	9.06	244.49	426.48	-2944.77	2982.47	2962.82	151.80	
4900.00	4898.70	4781.47	4780.89	10.81	9.31	244.38	426.15	-2945.98	2988.90	2968.80	148.75	
4965.28	4963.24	4851.98	4851.40	10.96	9.47	244.27	425.74	-2946.74	2993.84	2973.45	146.83	
5000.00	4997.50	4890.14	4889.56	11.04	9.56	244.16	425.50	-2947.08	2996.59	2976.04	145.80	
5100.00	5096.18	4975.62	4975.03	11.26	9.76	243.91	424.96	-2947.94	3004.68	2983.71	143.26	
5200.00	5194.87	5075.58	5074.98	11.50	10.00	243.62	424.35	-2949.27	3013.15	2991.72	140.56	
5300.00	5293.55	5171.78	5171.16	11.74	10.22	243.34	423.60	-2950.45	3021.59	2999.70	138.00	
5400.00	5392.24	5266.69	5266.06	11.99	10.44	243.06	422.54	-2951.80	3030.26	3007.90	135.56	
5500.00	5490.92	5363.81	5363.16	12.25	10.67	242.77	421.39	-2953.26	3039.07	3016.25	133.17	
5600.00	5589.60	5461.95	5461.29	12.51	10.90	242.48	420.32	-2954.74	3047.99	3024.69	130.82	
5700.00	5688.29	5554.12	5553.44	12.77	11.12	242.21	419.38	-2956.19	3057.05	3033.28	128.60	
5800.00	5786.97	5644.66	5643.96	13.04	11.35	241.95	418.56	-2957.86	3066.47	3042.22	126.47	
5900.00	5885.66	5738.17	5737.45	13.31	11.58	241.68	417.81	-2959.77	3076.15	3051.42	124.35	
6000.00	5984.34	5837.15	5836.40	13.59	11.83	241.40	417.12	-2961.88	3086.03	3060.78	122.24	
6100.00	6083.02	5937.41	5936.64	13.87	12.08	241.12	416.35	-2963.87	3095.81	3070.05	120.17	
6200.00	6181.71	6031.29	6030.50	14.16	12.32	240.86	415.61	-2965.89	3105.83	3079.56	118.26	
6300.00	6280.39	6134.80	6133.98	14.45	12.58	240.57	415.10	-2968.02	3115.85	3089.06	116.29	
6400.00	6379.08	6232.88	6232.04	14.74	12.83	240.31	414.71	-2969.93	3125.83	3098.52	114.43	
6500.00	6477.76	6325.46	6324.60	15.04	13.07	240.06	414.24	-2971.89	3136.05	3108.22	112.71	
6600.00	6576.44	6425.27	6424.38	15.34	13.32	239.79	413.47	-2974.07	3146.38	3118.03	110.97	
6700.00	6675.13	6529.36	6528.45	15.64	13.58	239.50	412.51	-2976.23	3156.68	3127.79	109.25	
6800.00	6773.81	6631.11	6630.18	15.94	13.84	239.23	411.82	-2978.12	3166.84	3137.41	107.61	
6900.00	6872.50	6720.90	6719.95	16.25	14.07	239.00	411.63	-2979.88	3177.18	3147.24	106.12	
7000.00	6971.18	6807.13	6806.16	16.56	14.29	238.78	411.56	-2981.88	3187.93	3157.49	104.72	
7100.00	7069.86	6906.14	6905.14	16.87	14.55	238.53	411.23	-2984.35	3198.92	3167.94	103.26	
7200.00	7168.55	7007.59	7006.55	17.18	14.81	238.27	410.84	-2986.80	3209.90	3178.37	101.82	
7300.00	7267.23	7096.04	7094.98	17.50	15.04	238.04	410.50	-2989.05	3221.05	3189.01	100.54	
7400.00	7365.92	7177.76	7176.66	17.81	15.25	237.83	410.00	-2991.46	3232.67	3200.14	99.36	
7500.00	7464.60	7267.16	7266.01	18.13	15.48	237.60	409.36	-2994.49	3244.78	3211.73	98.17	
7600.00	7563.28	7362.30	7361.08	18.45	15.73	237.36	408.88	-2997.87	3257.11	3223.52	96.98	
7700.00	7661.97	7462.86	7461.58	18.77	15.99	237.11	408.35	-3001.45	3269.52	3235.38	95.78	
7800.00	7760.65	7561.36	7560.01	19.10	16.24	236.87	407.95	-3004.88	3281.90	3247.22	94.63	
7900.00	7859.34	7663.48	7662.07	19.42	16.51	236.62	407.43	-3008.44	3294.35	3259.11	93.50	
7906.10	7865.36	7669.98	7668.57	19.44	16.53	236.60	407.41	-3008.65	3295.10	3259.84	93.43	
7950.00	7908.76	7716.81	7715.38	19.55	16.65	258.22	407.24	-3010.21	3299.18	3263.65	92.85	
8000.00	7958.26	7770.26	7768.80	19.59	16.79	285.86	406.99	-3011.92	3300.51	3264.77	92.35	
8050.00	8007.60	7825.74	7824.25	19.56	16.93	306.88	406.64	-3013.62	3298.30	3262.44	91.97	
8100.00	8056.54	7883.51	7882.00	19.45	17.08	319.86	406.33	-3015.25	3292.52	3256.62	91.71	



Weatherford International Ltd.

Anticollision Report



Weatherford

Company: Occidental Permian Ltd.
Field: Eddy Co. NM (Nad 27)
Reference Site: Misty 35 Fed #4H
Reference Well: Misty 35 Fed #4H
Reference Wellpath: 1

Date: 2/21/2013

Time: 17:00:32

Page: 3

Co-ordinate(NE) Reference: Well: Misty 35 Fed #4H, Grid North
Vertical (TVD) Reference: SITE 3535.7

Db: Sybase

Site: Exist. Misty Federal #2
Well: Existing Misty Federal #2
Wellpath: 1 VO

Inter-Site Error: 0.00 ft

Reference MD	TVD	Offset MD	TVD	Semi-Major Axis Ref	Offset	TFO-HS	Offset Location North	East	Ctr-Ctr Distance	Edge Distance	Separation Factor	Warning
ft	ft	ft	ft	ft	ft	deg	ft	ft	ft	ft		
8150.00	8104.83	7932.72	7931.19	19.28	17.21	327.82	406.13	-3016.55	3283.23	3247.40	91.63	
8200.00	8152.25	7978.00	7976.45	19.07	17.33	332.92	406.01	-3017.78	3270.59	3234.92	91.71	
8250.00	8198.55	8025.44	8023.87	18.90	17.45	336.35	405.93	-3019.09	3254.65	3219.23	91.90	
8300.00	8243.53	8074.50	8072.92	18.80	17.58	338.71	405.79	-3020.40	3235.43	3200.33	92.20	
8350.00	8286.95	8119.12	8117.51	18.79	17.70	340.38	405.58	-3021.55	3213.02	3178.34	92.65	
8400.00	8328.60	8158.89	8157.28	18.83	17.80	341.57	405.35	-3022.60	3187.60	3153.42	93.25	
8450.00	8368.29	8196.92	8195.29	18.90	17.90	342.37	405.09	-3023.63	3159.30	3125.68	93.98	
8500.00	8405.82	8240.14	8238.49	19.01	18.01	342.83	404.74	-3024.78	3128.21	3095.20	94.76	
8550.00	8441.00	8281.26	8279.60	19.15	18.12	343.01	404.33	-3025.81	3094.44	3062.08	95.62	
8600.00	8473.67	8320.01	8318.33	19.34	18.22	342.93	403.91	-3026.71	3058.16	3026.48	96.53	
8650.00	8503.66	8356.11	8354.43	19.56	18.31	342.58	403.57	-3027.49	3019.55	2988.55	97.42	
8700.00	8530.84	8388.85	8387.15	19.83	18.39	341.92	403.33	-3028.14	2978.80	2948.36	97.86	
8750.00	8555.06	8416.34	8414.64	20.15	18.46	340.91	403.17	-3028.65	2936.14	2906.18	97.99	
8800.00	8576.21	8439.51	8437.81	20.53	18.52	339.42	403.04	-3029.08	2891.80	2862.17	97.58	
8850.00	8594.19	8459.32	8457.61	20.96	18.58	337.23	402.92	-3029.43	2846.00	2816.42	96.22	
8900.00	8608.90	8475.68	8473.97	21.44	18.62	333.94	402.83	-3029.71	2798.95	2768.96	93.33	
8950.00	8620.28	8488.52	8486.81	21.98	18.65	328.75	402.76	-3029.93	2750.90	2719.71	88.19	
9000.00	8628.27	8497.79	8496.08	22.57	18.68	319.92	402.70	-3030.09	2702.07	2668.34	80.10	
9050.00	8632.84	8503.24	8501.52	23.21	18.69	303.38	402.67	-3030.18	2652.71	2614.40	69.23	
9095.51	8634.00	8505.12	8503.41	23.82	18.69	276.10	402.66	-3030.21	2607.52	2564.45	60.54	
9100.00	8633.97	8505.16	8503.45	23.88	18.69	276.09	402.66	-3030.22	2603.05	2559.91	60.33	
9200.00	8633.37	8506.21	8504.50	25.37	18.70	275.88	402.65	-3030.23	2503.64	2458.80	55.84	
9300.00	8632.76	8507.25	8505.54	27.01	18.70	275.66	402.65	-3030.25	2404.27	2357.58	51.50	
9400.00	8632.16	8508.30	8506.59	28.78	18.70	275.44	402.64	-3030.27	2304.95	2256.29	47.36	
9500.00	8631.56	8509.35	8507.64	30.65	18.71	275.22	402.64	-3030.29	2205.69	2154.94	43.46	
9600.00	8630.95	8510.40	8508.69	32.60	18.71	275.01	402.63	-3030.30	2106.51	2053.56	39.79	
9700.00	8630.35	8511.45	8509.74	34.63	18.71	274.79	402.62	-3030.32	2007.40	1952.19	36.36	
9800.00	8629.74	8512.51	8510.79	36.72	18.71	274.57	402.62	-3030.34	1908.39	1850.84	33.16	
9900.00	8629.14	8513.56	8511.85	38.85	18.72	274.35	402.61	-3030.36	1809.49	1749.53	30.18	
10000.00	8628.54	8514.62	8512.90	41.03	18.72	274.13	402.61	-3030.38	1710.71	1648.29	27.41	
10100.00	8627.93	8515.68	8513.96	43.25	18.72	273.91	402.60	-3030.39	1612.08	1547.15	24.83	
10200.00	8627.33	8516.73	8515.02	45.50	18.72	273.69	402.60	-3030.41	1513.64	1446.14	22.42	
10300.00	8626.73	8517.80	8516.08	47.77	18.73	273.46	402.59	-3030.43	1415.41	1345.29	20.19	
10400.00	8626.12	8518.86	8517.14	50.06	18.73	273.24	402.58	-3030.45	1317.44	1244.65	18.10	
10500.00	8625.52	8519.92	8518.21	52.38	18.73	273.02	402.58	-3030.47	1219.80	1144.28	16.15	
10600.00	8624.91	8520.99	8519.27	54.71	18.74	272.80	402.57	-3030.48	1122.58	1044.27	14.33	
10700.00	8624.31	8522.06	8520.34	57.06	18.74	272.57	402.57	-3030.50	1025.90	944.72	12.64	
10800.00	8623.71	8523.12	8521.41	59.42	18.74	272.35	402.56	-3030.52	929.91	845.77	11.05	
10900.00	8623.10	8524.20	8522.48	61.79	18.74	272.13	402.55	-3030.54	834.86	747.66	9.57	
11000.00	8622.50	8525.27	8523.55	64.17	18.75	271.90	402.55	-3030.56	741.12	650.71	8.20	
11100.00	8621.90	8526.34	8524.63	66.56	18.75	271.68	402.54	-3030.58	649.24	555.45	6.92	
11200.00	8621.29	8527.42	8525.70	68.97	18.75	271.45	402.54	-3030.59	560.15	462.74	5.75	
11300.00	8620.69	8528.49	8526.78	71.37	18.76	271.23	402.53	-3030.61	475.42	374.07	4.69	
11400.00	8620.08	8529.57	8527.86	73.79	18.76	271.00	402.53	-3030.63	397.84	292.20	3.77	
11500.00	8619.48	8530.65	8528.94	76.21	18.76	270.78	402.52	-3030.65	332.46	222.26	3.02	
11600.00	8618.88	8531.73	8530.02	78.64	18.76	270.55	402.51	-3030.67	287.70	173.31	2.52	
11700.00	8618.27	8532.82	8531.10	81.07	18.77	270.32	402.51	-3030.69	273.90	156.94	2.34	
11800.00	8617.67	8533.90	8532.18	83.50	18.77	270.10	402.50	-3030.70	295.40	178.01	2.52	
11900.00	8617.07	8534.99	8533.27	85.95	18.77	269.87	402.50	-3030.72	345.69	228.77	2.96	
12000.00	8616.46	8536.08	8534.36	88.39	18.78	269.64	402.49	-3030.74	414.42	297.73	3.55	
12100.00	8615.86	8537.16	8535.45	90.84	18.78	269.41	402.48	-3030.76	493.94	376.93	4.22	



Weatherford International Ltd.

Anticollision Report



Weatherford

Company: Occidental Permian Ltd.
Field: Eddy Co. NM (Nad 27)
Reference Site: Misty 35 Fed #4H
Reference Well: Misty 35 Fed #4H
Reference Wellpath: 1

Date: 2/21/2013

Time: 17:00:32

Page: 4

Co-ordinate(NE) Reference: Well: Misty 35 Fed #4H, Grid North
Vertical (TVD) Reference: SITE 3535.7

Db: Sybase

Site: Exist. Misty Federal #2
Well: Existing Misty Federal #2
Wellpath: 1 V0

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		
12200.00	8615.26	8538.26	8536.54	93.29	18.78	269.18	402.48	-3030.78	579.84	462.02	4.92	
12300.00	8614.65	8539.35	8537.63	95.74	18.78	268.96	402.47	-3030.80	669.66	550.66	5.63	
12400.00	8614.05	8540.44	8538.73	98.20	18.79	268.73	402.47	-3030.82	762.02	641.58	6.33	
12500.00	8613.44	8541.54	8539.82	100.66	18.79	268.50	402.46	-3030.83	856.09	734.03	7.01	
12600.00	8612.84	8542.64	8540.92	103.12	18.79	268.27	402.46	-3030.85	951.38	827.55	7.68	
12700.00	8612.24	8543.74	8542.02	105.59	18.80	268.04	402.45	-3030.87	1047.54	921.84	8.33	
12800.00	8611.63	8544.84	8543.12	108.05	18.80	267.81	402.44	-3030.89	1144.36	1016.71	8.96	
12900.00	8611.03	8545.94	8544.22	110.52	18.80	267.58	402.44	-3030.91	1241.68	1112.02	9.58	
13000.00	8610.43	8547.04	8545.33	112.99	18.80	267.35	402.43	-3030.93	1339.40	1207.67	10.17	
13100.00	8609.82	8548.15	8546.43	115.47	18.81	267.12	402.43	-3030.95	1437.43	1303.24	10.71	
13200.00	8609.22	8549.26	8547.54	117.94	18.81	266.88	402.42	-3030.97	1535.71	1399.07	11.24	
13236.17	8609.00	8549.66	8547.94	118.84	18.81	266.80	402.42	-3030.97	1571.32	1433.78	11.42	

Site: Ivore Federal #2H
Well: Ivore Federal #2H
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	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		
0.00	0.00	0.00	0.00	0.00	0.00	6.97	2478.10	302.80	2498.03			No Data
100.00	100.00	13.60	13.60	0.09	0.01	6.97	2478.10	302.80	2496.53	2496.43	25770.87	
200.00	200.00	113.60	113.60	0.31	0.11	6.97	2478.10	302.80	2496.53	2496.11	5873.74	
300.00	300.00	213.60	213.60	0.53	0.34	6.97	2478.10	302.80	2496.53	2495.66	2854.60	
400.00	400.00	313.60	313.60	0.76	0.56	6.97	2478.10	302.80	2496.53	2495.21	1885.46	
500.00	500.00	413.60	413.60	0.98	0.79	6.97	2478.10	302.80	2496.53	2494.76	1407.58	
600.00	600.00	513.60	513.60	1.21	1.01	6.97	2478.10	302.80	2496.53	2494.31	1122.96	
700.00	700.00	613.60	613.60	1.43	1.24	6.97	2478.10	302.80	2496.53	2493.86	934.09	
800.00	800.00	713.60	713.60	1.66	1.46	6.97	2478.10	302.80	2496.53	2493.41	799.60	
900.00	900.00	813.60	813.60	1.88	1.69	6.97	2478.10	302.80	2496.53	2492.96	698.96	
1000.00	1000.00	913.60	913.60	2.11	1.91	6.97	2478.10	302.80	2496.53	2492.51	620.83	
1100.00	1100.00	1013.60	1013.60	2.33	2.14	6.97	2478.10	302.80	2496.53	2492.06	558.41	
1200.00	1200.00	1113.60	1113.60	2.56	2.36	6.97	2478.10	302.80	2496.53	2491.61	507.39	
1300.00	1300.00	1213.60	1213.60	2.78	2.59	6.97	2478.10	302.80	2496.53	2491.16	464.91	
1400.00	1400.00	1313.60	1313.60	3.01	2.81	6.97	2478.10	302.80	2496.53	2490.71	429.00	
1500.00	1500.00	1413.60	1413.60	3.23	3.04	6.97	2478.10	302.80	2496.53	2490.26	398.24	
1600.00	1600.00	1513.60	1513.60	3.46	3.26	6.97	2478.10	302.80	2496.53	2489.81	371.59	
1700.00	1700.00	1613.60	1613.60	3.68	3.49	6.97	2478.10	302.80	2496.53	2489.36	348.29	
1800.00	1800.00	1713.60	1713.60	3.91	3.71	6.97	2478.10	302.80	2496.53	2488.91	327.73	
1900.00	1900.00	1813.60	1813.60	4.13	3.94	6.97	2478.10	302.80	2496.53	2488.46	309.47	
2000.00	2000.00	1913.60	1913.60	4.36	4.16	6.97	2478.10	302.80	2496.53	2488.01	293.14	
2100.00	2100.00	2013.60	2013.60	4.58	4.39	6.97	2478.10	302.80	2496.53	2487.56	278.44	
2200.00	2200.00	2113.60	2113.60	4.81	4.61	6.97	2478.10	302.80	2496.53	2487.12	265.15	
2300.00	2300.00	2213.60	2213.60	5.03	4.83	6.97	2478.10	302.80	2496.53	2486.67	253.06	
2400.00	2400.00	2313.60	2313.60	5.26	5.06	6.97	2478.10	302.80	2496.53	2486.22	242.04	
2500.00	2500.00	2413.60	2413.60	5.48	5.28	6.97	2478.10	302.80	2496.53	2485.77	231.93	
2600.00	2600.00	2513.60	2513.60	5.70	5.51	6.97	2478.10	302.80	2496.53	2485.32	222.63	
2700.00	2700.00	2613.60	2613.60	5.93	5.73	6.97	2478.10	302.80	2496.53	2484.87	214.05	
2800.00	2800.00	2713.60	2713.60	6.15	5.96	6.97	2478.10	302.80	2496.53	2484.42	206.11	
2900.00	2900.00	2813.60	2813.60	6.38	6.18	6.97	2478.10	302.80	2496.53	2483.97	198.73	
3000.00	3000.00	2913.60	2913.60	6.60	6.41	6.97	2478.10	302.80	2496.53	2483.52	191.86	
3100.00	3100.00	3013.60	3013.60	6.83	6.63	6.97	2478.10	302.80	2496.53	2483.07	185.46	
3200.00	3200.00	3113.60	3113.60	7.05	6.86	6.97	2478.10	302.80	2496.53	2482.62	179.46	



Weatherford International Ltd.

Anticollision Report



Weatherford

Company: Occidental Permian Ltd.
Field: Eddy Co, NM (Nad 27)
Reference Site: Misty 35 Fed #4H
Reference Well: Misty 35 Fed #4H
Reference Wellpath: 1

Date: 2/21/2013

Time: 17:00:32

Page: 5

Co-ordinate(NE) Reference: Well: Misty 35 Fed #4H, Grid North
Vertical (TVD) Reference: SITE 3535.7

Db: Sybase

Site: Ivore Federal #2H
Well: Ivore Federal #2H
Wellpath: 1 VO Plan: Plan #1 V1

Inter-Site Error: 0.00 ft

Reference MD ft	TVD ft	Offset MD ft	Offset 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
3300.00	3300.00	3213.60	3213.60	7.28	7.08	6.97	2478.10	302.80	2496.53	2482.17	173.85	
3400.00	3400.00	3313.60	3313.60	7.50	7.31	6.97	2478.10	302.80	2496.53	2481.72	168.57	
3500.00	3500.00	3413.60	3413.60	7.73	7.53	6.97	2478.10	302.80	2496.53	2481.27	163.60	
3600.00	3600.00	3513.60	3513.60	7.95	7.76	6.97	2478.10	302.80	2496.53	2480.82	158.92	
3700.00	3700.00	3613.60	3613.60	8.18	7.98	6.97	2478.10	302.80	2496.53	2480.37	154.50	
3800.00	3800.00	3713.60	3713.60	8.40	8.21	6.97	2478.10	302.80	2496.53	2479.92	150.32	
3900.00	3900.00	3813.60	3813.60	8.63	8.43	6.97	2478.10	302.80	2496.53	2479.47	146.36	
4000.00	4000.00	3913.60	3913.60	8.85	8.66	6.97	2478.10	302.80	2496.53	2479.02	142.60	
4100.00	4100.00	4013.60	4013.60	9.08	8.88	6.97	2478.10	302.80	2496.53	2478.57	139.03	
4200.00	4200.00	4113.60	4113.60	9.30	9.11	6.97	2478.10	302.80	2496.53	2478.12	135.63	
4300.00	4300.00	4213.60	4213.60	9.53	9.33	6.97	2478.10	302.80	2496.53	2477.68	132.40	
4400.00	4400.00	4313.60	4313.60	9.75	9.56	6.97	2478.10	302.80	2496.53	2477.23	129.32	
4500.00	4500.00	4413.60	4413.60	9.98	9.78	6.97	2478.10	302.80	2496.53	2476.78	126.38	
4600.00	4599.98	4513.58	4513.58	10.19	10.00	333.27	2478.10	302.80	2494.97	2474.78	123.57	
4700.00	4699.84	4613.44	4613.44	10.39	10.23	333.17	2478.10	302.80	2490.30	2469.69	120.82	
4800.00	4799.45	4713.05	4713.05	10.60	10.45	333.01	2478.10	302.80	2482.52	2461.49	118.05	
4900.00	4898.70	4812.30	4812.30	10.81	10.68	332.78	2478.10	302.80	2471.66	2450.21	115.28	
4965.28	4963.24	4876.84	4876.84	10.96	10.82	332.60	2478.10	302.80	2462.91	2441.20	113.46	
5000.00	4997.50	4911.10	4911.10	11.04	10.90	332.54	2478.10	302.80	2457.91	2436.05	112.41	
5100.00	5096.18	5009.78	5009.78	11.26	11.12	332.36	2478.10	302.80	2443.53	2421.22	109.48	
5200.00	5194.87	5108.47	5108.47	11.50	11.34	332.19	2478.10	302.80	2429.18	2406.40	106.65	
5300.00	5293.55	5207.15	5207.15	11.74	11.56	332.01	2478.10	302.80	2414.85	2391.61	103.92	
5400.00	5392.24	5305.84	5305.84	11.99	11.79	331.83	2478.10	302.80	2400.54	2376.84	101.28	
5500.00	5490.92	5404.52	5404.52	12.25	12.01	331.64	2478.10	302.80	2386.26	2362.09	98.74	
5600.00	5589.60	5503.20	5503.20	12.51	12.23	331.46	2478.10	302.80	2372.00	2347.36	96.28	
5700.00	5688.29	5601.89	5601.89	12.77	12.45	331.27	2478.10	302.80	2357.76	2332.65	93.90	
5800.00	5786.97	5700.57	5700.57	13.04	12.67	331.08	2478.10	302.80	2343.55	2317.97	91.60	
5900.00	5885.66	5799.26	5799.26	13.31	12.89	330.89	2478.10	302.80	2329.37	2303.31	89.38	
6000.00	5984.34	5897.94	5897.94	13.59	13.12	330.70	2478.10	302.80	2315.21	2288.67	87.23	
6100.00	6083.02	5996.62	5996.62	13.87	13.34	330.50	2478.10	302.80	2301.08	2274.05	85.15	
6200.00	6181.71	6095.31	6095.31	14.16	13.56	330.30	2478.10	302.80	2286.97	2259.46	83.13	
6300.00	6280.39	6193.99	6193.99	14.45	13.78	330.10	2478.10	302.80	2272.89	2244.90	81.18	
6400.00	6379.08	6292.68	6292.68	14.74	14.00	329.90	2478.10	302.80	2258.85	2230.36	79.29	
6500.00	6477.76	6391.36	6391.36	15.04	14.23	329.69	2478.10	302.80	2244.82	2215.85	77.47	
6600.00	6576.44	6490.04	6490.04	15.34	14.45	329.48	2478.10	302.80	2230.83	2201.36	75.69	
6700.00	6675.13	6588.73	6588.73	15.64	14.67	329.27	2478.10	302.80	2216.87	2186.90	73.97	
6800.00	6773.81	6687.41	6687.41	15.94	14.89	329.06	2478.10	302.80	2202.94	2172.47	72.31	
6900.00	6872.50	6786.10	6786.10	16.25	15.11	328.84	2478.10	302.80	2189.04	2158.07	70.69	
7000.00	6971.18	6884.78	6884.78	16.56	15.33	328.62	2478.10	302.80	2175.17	2143.70	69.12	
7100.00	7069.86	6983.46	6983.46	16.87	15.56	328.40	2478.10	302.80	2161.33	2129.36	67.60	
7200.00	7168.55	7082.15	7082.15	17.18	15.78	328.17	2478.10	302.80	2147.52	2115.05	66.12	
7300.00	7267.23	7180.83	7180.83	17.50	16.00	327.94	2478.10	302.80	2133.75	2100.77	64.69	
7400.00	7365.92	7279.52	7279.52	17.81	16.22	327.71	2478.10	302.80	2120.01	2086.52	63.29	
7500.00	7464.60	7378.20	7378.20	18.13	16.44	327.48	2478.10	302.80	2106.31	2072.30	61.94	
7600.00	7563.28	7476.88	7476.88	18.45	16.67	327.24	2478.10	302.80	2092.64	2058.12	60.62	
7700.00	7661.97	7575.57	7575.57	18.77	16.89	327.00	2478.10	302.80	2079.01	2043.97	59.34	
7800.00	7760.65	7674.25	7674.25	19.10	17.11	326.76	2478.10	302.80	2065.41	2029.86	58.10	
7900.00	7859.34	7947.26	7943.83	19.42	17.66	325.16	2469.07	270.66	2049.91	2013.49	56.29	
7906.10	7865.36	7973.18	7968.40	19.44	17.72	324.87	2466.83	262.70	2048.57	2012.06	56.10	
7950.00	7908.76	8135.80	8114.08	19.55	18.14	345.21	2447.48	193.87	2037.50	2000.38	54.90	
8000.00	7958.26	8277.63	8225.17	19.59	18.68	11.65	2423.72	109.35	2022.65	1984.67	53.25	



Weatherford International Ltd.

Anticollision Report



Weatherford

Company: Occidental Permian Ltd. Date: 2/21/2013 Time: 17:00:32 Page: 6
 Field: Eddy Co, NM (Nad 27)
 Reference Site: Misty 35 Fed #4H Co-ordinate(NE) Reference: Well: Misty 35 Fed #4H, Grid North
 Reference Well: Misty 35 Fed #4H Vertical (TVD) Reference: SITE 3535.7
 Reference Wellpath: 1 Db: Sybase

Site: Ivore Federal #2H
 Well: Ivore Federal #2H
 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	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		
8050.00	8007.60	8360.42	8281.28	19.56	19.13	32.49	2407.28	50.80	2006.39	1967.60	51.73	
8100.00	8056.54	8383.61	8295.74	19.45	19.28	46.54	2402.62	33.29	1990.10	1951.05	50.96	
8150.00	8104.83	8407.05	8309.80	19.28	19.43	55.54	2398.07	15.09	1974.16	1934.67	49.99	
8200.00	8152.25	8430.75	8323.43	19.07	19.61	61.68	2393.67	-3.79	1958.60	1918.86	49.28	
8250.00	8198.55	8454.68	8336.58	18.90	19.79	66.16	2389.41	-23.32	1943.47	1903.28	48.36	
8300.00	8243.53	8478.86	8349.22	18.80	19.99	69.60	2385.31	-43.51	1928.80	1888.36	47.69	
8350.00	8286.95	8500.00	8359.75	18.79	20.17	72.40	2381.89	-61.53	1914.64	1873.76	46.84	
8400.00	8328.60	8527.87	8372.83	18.83	20.43	74.62	2377.64	-85.77	1901.02	1859.84	46.17	
8450.00	8368.29	8550.00	8382.58	18.90	20.64	76.57	2374.46	-105.38	1887.98	1846.34	45.34	
8500.00	8405.82	8577.73	8393.96	19.01	20.93	78.18	2370.74	-130.39	1875.56	1833.60	44.70	
8550.00	8441.00	8600.00	8402.43	19.15	21.16	79.64	2367.97	-150.79	1863.79	1821.32	43.88	
8600.00	8473.67	8628.36	8412.34	19.34	21.48	80.85	2364.72	-177.17	1852.72	1809.86	43.24	
8650.00	8503.66	8650.00	8419.22	19.56	21.73	81.99	2362.45	-197.56	1842.37	1798.94	42.42	
8700.00	8530.84	8679.68	8427.70	19.83	22.10	82.92	2359.65	-225.86	1832.77	1788.88	41.76	
8750.00	8555.06	8700.00	8432.86	20.15	22.35	83.82	2357.93	-245.44	1823.97	1779.44	40.96	
8800.00	8576.21	8731.61	8439.82	20.53	22.77	84.52	2355.60	-276.18	1815.97	1770.85	40.26	
8850.00	8594.19	8757.77	8444.60	20.96	23.13	85.17	2353.98	-301.85	1808.82	1762.88	39.38	
8900.00	8608.90	8784.04	8448.50	21.44	23.50	85.72	2352.64	-327.79	1802.53	1756.00	38.73	
8950.00	8620.28	8810.41	8451.50	21.98	23.87	86.18	2351.58	-353.97	1797.14	1749.67	37.86	
9000.00	8628.27	8836.87	8453.59	22.57	24.26	86.56	2350.82	-380.33	1792.66	1744.50	37.22	
9050.00	8632.84	8863.39	8454.74	23.21	24.66	86.85	2350.35	-406.82	1789.11	1740.02	36.44	
9095.51	8634.00	8891.66	8455.00	23.82	25.10	87.04	2350.16	-435.08	1786.69	1736.72	35.76	
9100.00	8633.97	8896.14	8455.00	23.88	25.17	87.04	2350.14	-439.57	1786.48	1736.40	35.67	
9200.00	8633.37	8996.03	8455.00	25.37	26.86	87.05	2349.75	-539.46	1781.83	1728.57	33.45	
9300.00	8632.76	9095.92	8455.00	27.01	28.67	87.07	2349.37	-639.35	1777.17	1720.46	31.33	
9400.00	8632.16	9195.82	8455.00	28.78	30.58	87.08	2348.98	-739.24	1772.52	1712.13	29.35	
9500.00	8631.56	9295.71	8455.00	30.65	32.56	87.09	2348.60	-839.13	1767.87	1703.62	27.52	
9600.00	8630.95	9395.60	8455.00	32.60	34.62	87.10	2348.21	-939.02	1763.21	1694.95	25.83	
9700.00	8630.35	9495.49	8455.00	34.63	36.73	87.11	2347.82	-1038.91	1758.56	1686.16	24.29	
9800.00	8629.74	9595.38	8455.00	36.72	38.88	87.13	2347.44	-1138.80	1753.91	1677.26	22.88	
9900.00	8629.14	9695.27	8455.00	38.85	41.08	87.14	2347.05	-1238.69	1749.25	1668.27	21.60	
10000.00	8628.54	9795.16	8455.00	41.03	43.30	87.15	2346.67	-1338.58	1744.60	1659.21	20.43	
10100.00	8627.93	9895.05	8455.00	43.25	45.56	87.16	2346.28	-1438.47	1739.94	1650.09	19.36	
10200.00	8627.33	9994.94	8455.00	45.50	47.84	87.17	2345.90	-1538.36	1735.29	1640.91	18.39	
10300.00	8626.73	10094.83	8455.00	47.77	50.14	87.19	2345.51	-1638.25	1730.64	1631.68	17.49	
10400.00	8626.12	10194.73	8455.00	50.06	52.46	87.20	2345.13	-1738.14	1725.98	1622.41	16.66	
10500.00	8625.52	10294.62	8455.00	52.38	54.80	87.21	2344.74	-1838.03	1721.33	1613.10	15.90	
10600.00	8624.91	10394.51	8455.00	54.71	57.15	87.22	2344.35	-1937.92	1716.68	1603.77	15.20	
10700.00	8624.31	10494.40	8455.00	57.06	59.51	87.24	2343.97	-2037.81	1712.03	1594.41	14.56	
10800.00	8623.71	10594.29	8455.00	59.42	61.89	87.25	2343.58	-2137.70	1707.37	1585.02	13.95	
10900.00	8623.10	10694.18	8455.00	61.79	64.27	87.26	2343.20	-2237.59	1702.72	1575.61	13.40	
11000.00	8622.50	10794.07	8455.00	64.17	66.66	87.28	2342.81	-2337.48	1698.07	1566.18	12.88	
11100.00	8621.90	10893.96	8455.00	66.56	69.06	87.29	2342.43	-2437.37	1693.41	1556.74	12.39	
11200.00	8621.29	10993.85	8455.00	68.97	71.47	87.30	2342.04	-2537.26	1688.76	1547.28	11.94	
11300.00	8620.69	11093.74	8455.00	71.37	73.88	87.31	2341.66	-2637.15	1684.11	1537.80	11.51	
11400.00	8620.08	11193.64	8455.00	73.79	76.30	87.33	2341.27	-2737.04	1679.46	1528.32	11.11	
11500.00	8619.48	11293.53	8455.00	76.21	78.73	87.34	2340.88	-2836.93	1674.80	1518.82	10.74	
11600.00	8618.88	11393.42	8455.00	78.64	81.15	87.35	2340.50	-2936.82	1670.15	1509.31	10.38	
11700.00	8618.27	11493.31	8455.00	81.07	83.59	87.37	2340.11	-3036.71	1665.50	1499.79	10.05	
11800.00	8617.67	11593.20	8455.00	83.50	86.02	87.38	2339.73	-3136.60	1660.85	1490.27	9.74	
11900.00	8617.07	11693.09	8455.00	85.95	88.47	87.39	2339.34	-3236.49	1656.20	1480.73	9.44	



Weatherford International Ltd.

Anticollision Report



Weatherford

Company: Occidental Permian Ltd. Date: 2/21/2013 Time: 17:00:32 Page: 7
 Field: Eddy Co, NM (Nad 27)
 Reference Site: Misty 35 Fed #4H Co-ordinate(NE) Reference: Well: Misty 35 Fed #4H, Grid North
 Reference Well: Misty 35 Fed #4H Vertical (TVD) Reference: SITE 3535.7
 Reference Wellpath: 1 Db: Sybase

Site: Ivore Federal #2H
 Well: Ivore Federal #2H
 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		
12000.00	8616.46	11792.98	8455.00	88.39	90.91	87.41	2338.96	-3336.39	1651.54	1471.19	9.16	
12100.00	8615.86	11892.87	8455.00	90.84	93.36	87.42	2338.57	-3436.28	1646.89	1461.65	8.89	
12200.00	8615.26	11992.76	8455.00	93.29	95.81	87.44	2338.18	-3536.17	1642.24	1452.09	8.64	
12300.00	8614.65	12092.65	8455.00	95.74	98.26	87.45	2337.80	-3636.06	1637.59	1442.53	8.40	
12400.00	8614.05	12192.54	8455.00	98.20	100.71	87.46	2337.41	-3735.95	1632.94	1432.97	8.17	
12500.00	8613.44	12292.44	8455.00	100.66	103.17	87.48	2337.03	-3835.84	1628.29	1423.40	7.95	
12600.00	8612.84	12392.33	8455.00	103.12	105.63	87.49	2336.64	-3935.73	1623.63	1413.82	7.74	
12700.00	8612.24	12492.22	8455.00	105.59	108.09	87.51	2336.26	-4035.62	1618.98	1404.25	7.54	
12800.00	8611.63	12592.11	8455.00	108.05	110.55	87.52	2335.87	-4135.51	1614.33	1394.67	7.35	
12900.00	8611.03	12692.00	8455.00	110.52	113.02	87.53	2335.49	-4235.40	1609.68	1385.08	7.17	
13000.00	8610.43	12791.89	8455.00	112.99	115.48	87.55	2335.10	-4335.29	1605.03	1375.49	6.99	
13100.00	8609.82	12891.78	8455.00	115.47	117.95	87.56	2334.71	-4435.18	1600.38	1365.90	6.83	
13200.00	8609.22	12991.67	8455.00	117.94	120.42	87.58	2334.33	-4535.07	1595.73	1356.30	6.66	
13236.17	8609.00	13027.80	8455.00	118.84	121.32	87.58	2334.19	-4571.20	1594.05	1352.89	6.61	

Site: Misty 35 Fed #3H
 Well: Misty 35 Fed #3H
 Wellpath: 1 V0 Plan: Plan #2 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		
0.00	0.00	5.80	5.80	0.00	0.00	158.26	-672.60	268.20	724.10			No Data
100.00	100.00	105.80	105.80	0.09	0.10	158.26	-672.60	268.20	724.10	723.92	3962.58	
200.00	200.00	205.80	205.80	0.31	0.32	158.26	-672.60	268.20	724.10	723.47	1145.25	
300.00	300.00	305.80	305.80	0.53	0.55	158.26	-672.60	268.20	724.10	723.02	669.35	
400.00	400.00	405.80	405.80	0.76	0.77	158.26	-672.60	268.20	724.10	722.57	472.86	
500.00	500.00	505.80	505.80	0.98	1.00	158.26	-672.60	268.20	724.10	722.12	365.55	
600.00	600.00	605.80	605.80	1.21	1.22	158.26	-672.60	268.20	724.10	721.67	297.94	
700.00	700.00	705.80	705.80	1.43	1.45	158.26	-672.60	268.20	724.10	721.22	251.43	
800.00	800.00	805.80	805.80	1.66	1.67	158.26	-672.60	268.20	724.10	720.77	217.48	
900.00	900.00	905.80	905.80	1.88	1.90	158.26	-672.60	268.20	724.10	720.32	191.61	
1000.00	1000.00	1005.80	1005.80	2.11	2.12	158.26	-672.60	268.20	724.10	719.87	171.24	
1100.00	1100.00	1105.80	1105.80	2.33	2.34	158.26	-672.60	268.20	724.10	719.42	154.79	
1200.00	1200.00	1205.80	1205.80	2.56	2.57	158.26	-672.60	268.20	724.10	718.97	141.22	
1300.00	1300.00	1305.80	1305.80	2.78	2.79	158.26	-672.60	268.20	724.10	718.52	129.83	
1400.00	1400.00	1405.80	1405.80	3.01	3.02	158.26	-672.60	268.20	724.10	718.07	120.15	
1500.00	1500.00	1505.80	1505.80	3.23	3.24	158.26	-672.60	268.20	724.10	717.62	111.81	
1600.00	1600.00	1605.80	1605.80	3.46	3.47	158.26	-672.60	268.20	724.10	717.18	104.55	
1700.00	1700.00	1705.80	1705.80	3.68	3.69	158.26	-672.60	268.20	724.10	716.73	98.18	
1800.00	1800.00	1805.80	1805.80	3.91	3.92	158.26	-672.60	268.20	724.10	716.28	92.54	
1900.00	1900.00	1905.80	1905.80	4.13	4.14	158.26	-672.60	268.20	724.10	715.83	87.51	
2000.00	2000.00	2005.80	2005.80	4.36	4.37	158.26	-672.60	268.20	724.10	715.38	83.00	
2100.00	2100.00	2105.80	2105.80	4.58	4.59	158.26	-672.60	268.20	724.10	714.93	78.94	
2200.00	2200.00	2205.80	2205.80	4.81	4.82	158.26	-672.60	268.20	724.10	714.48	75.25	
2300.00	2300.00	2305.80	2305.80	5.03	5.04	158.26	-672.60	268.20	724.10	714.03	71.89	
2400.00	2400.00	2405.80	2405.80	5.26	5.27	158.26	-672.60	268.20	724.10	713.58	68.82	
2500.00	2500.00	2505.80	2505.80	5.48	5.49	158.26	-672.60	268.20	724.10	713.13	66.00	
2600.00	2600.00	2605.80	2605.80	5.70	5.72	158.26	-672.60	268.20	724.10	712.68	63.40	
2700.00	2700.00	2705.80	2705.80	5.93	5.94	158.26	-672.60	268.20	724.10	712.23	61.00	
2800.00	2800.00	2805.80	2805.80	6.15	6.17	158.26	-672.60	268.20	724.10	711.78	58.77	
2900.00	2900.00	2905.80	2905.80	6.38	6.39	158.26	-672.60	268.20	724.10	711.33	56.70	



Weatherford International Ltd.

Anticollision Report



Weatherford

Company: Occidental Permian Ltd.
Field: Eddy Co, NM (Nad 27)
Reference Site: Misty 35 Fed #4H
Reference Well: Misty 35 Fed #4H
Reference Wellpath: 1

Date: 2/21/2013

Time: 17:00:32

Page: 8

Co-ordinate(NE) Reference: Well: Misty 35 Fed #4H, Grid North
Vertical (TVD) Reference: SITE 3535.7

Db: Sybase

Site: Misty 35 Fed #3H
Well: Misty 35 Fed #3H
Wellpath: 1 VO Plan: Plan #2 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			
3000.00	3000.00	3005.80	3005.80	6.60	6.62	158.26	-672.60	268.20	724.10	710.88	54.78		
3100.00	3100.00	3105.80	3105.80	6.83	6.84	158.26	-672.60	268.20	724.10	710.43	52.98		
3200.00	3200.00	3205.80	3205.80	7.05	7.07	158.26	-672.60	268.20	724.10	709.98	51.29		
3300.00	3300.00	3305.80	3305.80	7.28	7.29	158.26	-672.60	268.20	724.10	709.53	49.71		
3400.00	3400.00	3405.80	3405.80	7.50	7.51	158.26	-672.60	268.20	724.10	709.08	48.22		
3500.00	3500.00	3505.80	3505.80	7.73	7.74	158.26	-672.60	268.20	724.10	708.63	46.82		
3600.00	3600.00	3605.80	3605.80	7.95	7.96	158.26	-672.60	268.20	724.10	708.18	45.49		
3700.00	3700.00	3705.80	3705.80	8.18	8.19	158.26	-672.60	268.20	724.10	707.73	44.24		
3800.00	3800.00	3805.80	3805.80	8.40	8.41	158.26	-672.60	268.20	724.10	707.29	43.06		
3900.00	3900.00	3905.80	3905.80	8.63	8.64	158.26	-672.60	268.20	724.10	706.84	41.94		
4000.00	4000.00	4005.80	4005.80	8.85	8.86	158.26	-672.60	268.20	724.10	706.39	40.88		
4100.00	4100.00	4105.80	4105.80	9.08	9.09	158.26	-672.60	268.20	724.10	705.94	39.86		
4200.00	4200.00	4205.80	4205.80	9.30	9.31	158.26	-672.60	268.20	724.10	705.49	38.90		
4300.00	4300.00	4305.80	4305.80	9.53	9.54	158.26	-672.60	268.20	724.10	705.04	37.98		
4400.00	4400.00	4405.80	4405.80	9.75	9.76	158.26	-672.60	268.20	724.10	704.59	37.11		
4500.00	4500.00	4505.80	4505.80	9.98	9.99	158.26	-672.60	268.20	724.10	704.14	36.27		
4600.00	4599.98	4605.78	4605.78	10.19	10.21	124.69	-672.60	268.20	725.09	704.69	35.54		
4700.00	4699.84	4705.64	4705.64	10.39	10.44	124.98	-672.60	268.20	728.09	707.26	34.96		
4800.00	4799.45	4805.25	4805.25	10.60	10.66	125.45	-672.60	268.20	733.12	711.88	34.51		
4900.00	4898.70	4904.50	4904.50	10.81	10.88	126.10	-672.60	268.20	740.29	718.62	34.17		
4965.28	4963.24	4969.04	4969.04	10.96	11.03	126.61	-672.60	268.20	746.15	724.21	34.01		
5000.00	4997.50	5003.30	5003.30	11.04	11.11	126.96	-672.60	268.20	749.54	727.45	33.92		
5100.00	5096.18	5101.98	5101.98	11.26	11.33	127.92	-672.60	268.20	759.45	736.91	33.69		
5200.00	5194.87	5200.67	5200.67	11.50	11.55	128.86	-672.60	268.20	769.58	746.59	33.48		
5300.00	5293.55	5299.35	5299.35	11.74	11.77	129.78	-672.60	268.20	779.91	756.47	33.27		
5400.00	5392.24	5398.04	5398.04	11.99	11.99	130.68	-672.60	268.20	790.43	766.54	33.08		
5500.00	5490.92	5496.72	5496.72	12.25	12.21	131.55	-672.60	268.20	801.14	776.79	32.90		
5600.00	5589.60	5595.40	5595.40	12.51	12.44	132.39	-672.60	268.20	812.04	787.22	32.72		
5700.00	5688.29	5694.09	5694.09	12.77	12.66	133.22	-672.60	268.20	823.10	797.82	32.56		
5800.00	5786.97	5792.77	5792.77	13.04	12.88	134.02	-672.60	268.20	834.34	808.59	32.41		
5900.00	5885.66	5891.46	5891.46	13.31	13.10	134.81	-672.60	268.20	845.73	819.52	32.27		
6000.00	5984.34	5990.14	5990.14	13.59	13.32	135.57	-672.60	268.20	857.28	830.60	32.13		
6100.00	6083.02	6088.82	6088.82	13.87	13.55	136.31	-672.60	268.20	868.97	841.82	32.01		
6200.00	6181.71	6187.51	6187.51	14.16	13.77	137.03	-672.60	268.20	880.81	853.19	31.89		
6300.00	6280.39	6286.19	6286.19	14.45	13.99	137.74	-672.60	268.20	892.78	864.69	31.78		
6400.00	6379.08	6384.88	6384.88	14.74	14.21	138.42	-672.60	268.20	904.88	876.32	31.68		
6500.00	6477.76	6483.56	6483.56	15.04	14.43	139.09	-672.60	268.20	917.11	888.07	31.59		
6600.00	6576.44	6582.24	6582.24	15.34	14.65	139.74	-672.60	268.20	929.46	899.95	31.50		
6700.00	6675.13	6680.93	6680.93	15.64	14.88	140.37	-672.60	268.20	941.92	911.94	31.42		
6800.00	6773.81	6779.61	6779.61	15.94	15.10	140.98	-672.60	268.20	954.50	924.04	31.34		
6900.00	6872.50	6878.30	6878.30	16.25	15.32	141.58	-672.60	268.20	967.18	936.25	31.27		
7000.00	6971.18	6976.98	6976.98	16.56	15.54	142.17	-672.60	268.20	979.96	948.56	31.21		
7100.00	7069.86	7075.66	7075.66	16.87	15.76	142.74	-672.60	268.20	992.85	960.97	31.15		
7200.00	7168.55	7174.35	7174.35	17.18	15.99	143.29	-672.60	268.20	1005.82	973.48	31.09		
7300.00	7267.23	7273.03	7273.03	17.50	16.21	143.83	-672.60	268.20	1018.89	986.07	31.04		
7400.00	7365.92	7371.72	7371.72	17.81	16.43	144.36	-672.60	268.20	1032.05	998.75	31.00		
7500.00	7464.60	7470.40	7470.40	18.13	16.65	144.88	-672.60	268.20	1045.29	1011.52	30.95		
7600.00	7563.28	7569.08	7569.08	18.45	16.87	145.38	-672.60	268.20	1058.62	1024.37	30.91		
7700.00	7661.97	7667.77	7667.77	18.77	17.09	145.87	-672.60	268.20	1072.02	1037.30	30.88		
7800.00	7760.65	7766.45	7766.45	19.10	17.32	146.34	-672.60	268.20	1085.50	1050.31	30.85		
7900.00	7859.34	7865.14	7865.14	19.42	17.54	146.81	-672.60	268.20	1099.05	1063.38	30.82		



Weatherford International Ltd.

Anticollision Report



Weatherford

Company: Occidental Permian Ltd.
Field: Eddy Co, NM (Nad 27)
Reference Site: Misty 35 Fed #4H
Reference Well: Misty 35 Fed #4H
Reference Wellpath: 1

Date: 2/21/2013

Time: 17:00:32

Page: 9

Co-ordinate(NE) Reference: Well: Misty 35 Fed #4H, Grid North
Vertical (TVD) Reference: SITE 3535.7

Db: Sybase

Site: Misty 35 Fed #3H
Well: Misty 35 Fed #3H
Wellpath: 1 VO Plan: Plan #2 V1

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		
7906.10	7865.36	7871.16	7871.16	19.44	17.55	146.84	-672.60	268.20	1099.87	1064.18	30.82	
7950.00	7908.76	7914.56	7914.56	19.55	17.65	169.17	-672.60	268.20	1105.89	1070.02	30.83	
8000.00	7958.26	7962.85	7962.83	19.59	17.76	197.53	-672.60	267.19	1112.87	1076.80	30.86	
8050.00	8007.60	8010.76	8010.56	19.56	17.87	219.30	-672.62	263.05	1119.98	1083.73	30.90	
8100.00	8056.54	8058.64	8057.86	19.45	17.97	233.05	-672.64	255.73	1127.19	1090.77	30.95	
8150.00	8104.83	8106.49	8104.55	19.28	18.08	241.77	-672.67	245.28	1134.46	1097.88	31.01	
8200.00	8152.25	8154.34	8150.43	19.07	18.19	247.64	-672.72	231.73	1141.77	1105.02	31.07	
8250.00	8198.55	8202.19	8195.31	18.90	18.31	251.86	-672.77	215.15	1149.07	1112.15	31.13	
8300.00	8243.53	8250.07	8239.01	18.80	18.43	255.06	-672.84	195.60	1156.33	1119.23	31.17	
8350.00	8286.95	8297.99	8281.33	18.79	18.57	257.58	-672.91	173.15	1163.51	1126.22	31.20	
8400.00	8328.60	8345.97	8322.11	18.83	18.72	259.62	-672.99	147.89	1170.58	1133.07	31.20	
8450.00	8368.29	8394.02	8361.17	18.90	18.89	261.32	-673.08	119.92	1177.51	1139.73	31.17	
8500.00	8405.82	8442.16	8398.32	19.01	19.09	262.77	-673.18	89.33	1184.26	1146.17	31.09	
8550.00	8441.00	8490.40	8433.41	19.15	19.32	264.01	-673.29	56.24	1190.81	1152.34	30.96	
8600.00	8473.67	8538.75	8466.27	19.34	19.58	265.08	-673.40	20.78	1197.11	1158.20	30.77	
8650.00	8503.66	8587.23	8496.74	19.56	19.89	266.00	-673.53	-16.92	1203.13	1163.70	30.51	
8700.00	8530.84	8635.84	8524.66	19.83	20.24	266.81	-673.66	-56.70	1208.86	1168.80	30.17	
8750.00	8555.06	8684.60	8549.89	20.15	20.64	267.51	-673.79	-98.42	1214.26	1173.48	29.77	
8800.00	8576.21	8733.52	8572.29	20.53	21.10	268.12	-673.93	-141.89	1219.31	1177.69	29.30	
8850.00	8594.19	8782.59	8591.73	20.96	21.61	268.63	-674.08	-186.94	1223.98	1181.42	28.76	
8900.00	8608.90	8831.82	8608.08	21.44	22.18	269.06	-674.23	-233.37	1228.25	1184.65	28.17	
8950.00	8620.28	8881.22	8621.25	21.98	22.80	269.40	-674.39	-280.97	1232.10	1187.34	27.53	
9000.00	8628.27	8930.79	8631.13	22.57	23.48	269.67	-674.54	-329.53	1235.50	1189.50	26.86	
9050.00	8632.84	8980.53	8637.65	23.21	24.19	269.87	-674.70	-378.83	1238.46	1191.11	26.16	
9095.51	8634.00	9025.94	8640.60	23.82	24.88	269.98	-674.85	-424.13	1240.74	1192.11	25.52	
9100.00	8633.97	9030.43	8640.74	23.88	24.95	269.97	-674.87	-428.62	1240.94	1192.18	25.45	
9200.00	8633.37	9130.35	8641.00	25.37	26.58	269.93	-675.19	-528.54	1245.51	1193.63	24.01	
9300.00	8632.76	9230.24	8641.00	27.01	28.33	269.90	-675.52	-628.43	1250.08	1194.80	22.62	
9400.00	8632.16	9330.14	8641.00	28.78	30.18	269.88	-675.84	-728.33	1254.65	1195.75	21.30	
9500.00	8631.56	9430.03	8641.00	30.65	32.12	269.85	-676.17	-828.22	1259.22	1196.50	20.08	
9600.00	8630.95	9529.92	8641.00	32.60	34.14	269.82	-676.49	-928.11	1263.79	1197.10	18.95	
9700.00	8630.35	9629.82	8641.00	34.63	36.21	269.80	-676.81	-1028.01	1268.36	1197.56	17.92	
9800.00	8629.74	9729.71	8641.00	36.72	38.34	269.77	-677.14	-1127.90	1272.93	1197.92	16.97	
9900.00	8629.14	9829.61	8641.00	38.85	40.51	269.74	-677.46	-1227.79	1277.50	1198.18	16.10	
10000.00	8628.54	9929.50	8641.00	41.03	42.71	269.72	-677.79	-1327.69	1282.07	1198.36	15.31	
10100.00	8627.93	10029.39	8641.00	43.25	44.95	269.69	-678.11	-1427.58	1286.65	1198.48	14.59	
10200.00	8627.33	10129.29	8641.00	45.50	47.21	269.67	-678.44	-1527.47	1291.22	1198.54	13.93	
10300.00	8626.73	10229.18	8641.00	47.77	49.50	269.64	-678.76	-1627.37	1295.79	1198.55	13.33	
10400.00	8626.12	10329.07	8641.00	50.06	51.80	269.62	-679.09	-1727.26	1300.36	1198.52	12.77	
10500.00	8625.52	10428.97	8641.00	52.38	54.13	269.59	-679.41	-1827.15	1304.93	1198.45	12.25	
10600.00	8624.91	10528.86	8641.00	54.71	56.47	269.57	-679.74	-1927.05	1309.51	1198.35	11.78	
10700.00	8624.31	10628.76	8641.00	57.06	58.82	269.54	-680.06	-2026.94	1314.08	1198.22	11.34	
10800.00	8623.71	10728.65	8641.00	59.42	61.18	269.52	-680.39	-2126.83	1318.65	1198.07	10.94	
10900.00	8623.10	10828.54	8641.00	61.79	63.56	269.49	-680.71	-2226.73	1323.23	1197.89	10.56	
11000.00	8622.50	10928.44	8641.00	64.17	65.94	269.47	-681.04	-2326.62	1327.80	1197.70	10.21	
11100.00	8621.90	11028.33	8641.00	66.56	68.34	269.44	-681.36	-2426.51	1332.37	1197.49	9.88	
11200.00	8621.29	11128.23	8641.00	68.97	70.74	269.42	-681.69	-2526.40	1336.95	1197.26	9.57	
11300.00	8620.69	11228.12	8641.00	71.37	73.14	269.40	-682.01	-2626.30	1341.52	1197.02	9.28	
11400.00	8620.08	11328.01	8641.00	73.79	75.56	269.37	-682.34	-2726.19	1346.10	1196.76	9.01	
11500.00	8619.48	11427.91	8641.00	76.21	77.97	269.35	-682.66	-2826.08	1350.67	1196.50	8.76	
11600.00	8618.88	11527.80	8641.00	78.64	80.40	269.33	-682.99	-2925.98	1355.25	1196.22	8.52	



Weatherford International Ltd.

Anticollision Report



Weatherford

Company: Occidental Permian Ltd.
Field: Eddy Co, NM (Nad 27)
Reference Site: Misty 35 Fed #4H
Reference Well: Misty 35 Fed #4H
Reference Wellpath: 1

Date: 2/21/2013

Time: 17:00:32

Page: 10

Co-ordinate(NE) Reference: Well: Misty 35 Fed #4H, Grid North
Vertical (TVD) Reference: SITE 3535.7

Db: Sybase

Site: Misty 35 Fed #3H
Well: Misty 35 Fed #3H
Wellpath: 1 V0 Plan: Plan #2 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		
11700.00	8618.27	11627.69	8641.00	81.07	82.83	269.30	-683.31	-3025.87	1359.82	1195.94	8.30	
11800.00	8617.67	11727.59	8641.00	83.50	85.26	269.28	-683.64	-3125.76	1364.40	1195.64	8.09	
11900.00	8617.07	11827.48	8641.00	85.95	87.70	269.26	-683.96	-3225.66	1368.98	1195.34	7.88	
12000.00	8616.46	11927.38	8641.00	88.39	90.14	269.23	-684.29	-3325.55	1373.55	1195.03	7.69	
12100.00	8615.86	12027.27	8641.00	90.84	92.58	269.21	-684.61	-3425.44	1378.13	1194.72	7.51	
12200.00	8615.26	12127.16	8641.00	93.29	95.03	269.19	-684.94	-3525.34	1382.70	1194.40	7.34	
12300.00	8614.65	12227.06	8641.00	95.74	97.48	269.17	-685.26	-3625.23	1387.28	1194.07	7.18	
12400.00	8614.05	12326.95	8641.00	98.20	99.93	269.14	-685.58	-3725.12	1391.86	1193.74	7.03	
12500.00	8613.44	12426.84	8641.00	100.66	102.38	269.12	-685.91	-3825.02	1396.44	1193.40	6.88	
12600.00	8612.84	12526.74	8641.00	103.12	104.84	269.10	-686.23	-3924.91	1401.01	1193.06	6.74	
12700.00	8612.24	12626.63	8641.00	105.59	107.30	269.08	-686.56	-4024.80	1405.59	1192.72	6.60	
12800.00	8611.63	12726.53	8641.00	108.05	109.76	269.06	-686.88	-4124.70	1410.17	1192.37	6.47	
12900.00	8611.03	12826.42	8641.00	110.52	112.22	269.04	-687.21	-4224.59	1414.75	1192.01	6.35	
13000.00	8610.43	12926.31	8641.00	112.99	114.68	269.01	-687.53	-4324.48	1419.32	1191.66	6.23	
13100.00	8609.82	13026.21	8641.00	115.47	117.15	268.99	-687.86	-4424.38	1423.90	1191.30	6.12	
13200.00	8609.22	13126.10	8641.00	117.94	119.62	268.97	-688.18	-4524.27	1428.48	1190.94	6.01	
13236.17	8609.00	13162.23	8641.00	118.84	120.51	268.97	-688.30	-4560.40	1430.14	1190.81	5.98	

Site: Smokey Bits State Com 3H
Well: 3H
Wellpath: 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		
0.00	0.00	9.96	9.96	0.00	0.00	53.54	527.70	714.20	888.00			No Data
100.00	100.00	106.68	106.68	0.09	0.02	53.54	527.80	714.39	888.23	888.12	8501.32	
200.00	200.00	203.07	203.07	0.31	0.10	53.55	528.02	714.96	888.83	888.43	2202.72	
300.00	300.00	298.54	298.53	0.53	0.16	53.60	528.09	716.18	889.90	889.22	1296.92	
400.00	400.00	386.48	386.44	0.76	0.22	53.71	527.75	718.60	891.89	890.94	932.86	
500.00	500.00	483.66	483.52	0.98	0.28	53.91	526.85	722.77	894.81	893.58	727.56	
600.00	600.00	584.75	584.48	1.21	0.39	54.17	525.41	727.57	897.82	896.26	575.31	
700.00	700.00	689.09	688.71	1.43	0.57	54.42	523.74	732.15	900.45	898.48	455.05	
800.00	800.00	793.48	793.01	1.66	0.76	54.66	521.98	736.17	902.61	900.21	376.25	
900.00	900.00	897.97	897.44	1.88	0.97	54.86	520.41	739.41	904.28	901.44	318.20	
1000.00	1000.00	1000.67	1000.11	2.11	1.18	54.99	519.47	741.61	905.50	902.22	275.90	
1100.00	1100.00	1101.47	1100.90	2.33	1.39	55.08	518.95	743.30	906.58	902.86	243.69	
1200.00	1200.00	1202.29	1201.70	2.56	1.60	55.14	518.77	744.65	907.58	903.42	218.15	
1300.00	1300.00	1303.50	1302.91	2.78	1.82	55.17	518.91	745.64	908.46	903.86	197.42	
1400.00	1400.00	1404.91	1404.31	3.01	2.04	55.17	519.26	746.31	909.20	904.16	180.20	
1500.00	1500.00	1506.32	1505.72	3.23	2.26	55.15	519.82	746.64	909.78	904.29	165.70	
1600.00	1600.00	1607.07	1606.47	3.46	2.47	55.13	520.44	746.77	910.24	904.31	153.61	
1700.00	1700.00	1707.74	1707.14	3.68	2.68	55.10	520.95	746.88	910.62	904.26	143.19	
1800.00	1800.00	1808.43	1807.83	3.91	2.89	55.09	521.34	746.99	910.93	904.14	134.09	
1900.00	1900.00	1909.47	1908.87	4.13	3.10	55.07	521.73	746.98	911.15	903.92	126.02	
2000.00	2000.00	2010.51	2009.91	4.36	3.31	55.03	522.23	746.76	911.25	903.58	118.85	
2100.00	2100.00	2111.24	2110.64	4.58	3.52	54.99	522.82	746.33	911.24	903.14	112.47	
2200.00	2200.00	2210.99	2210.38	4.81	3.73	54.94	523.45	745.86	911.21	902.68	106.78	
2300.00	2300.00	2310.74	2310.13	5.03	3.94	54.89	524.10	745.41	911.22	902.25	101.64	
2400.00	2400.00	2410.85	2410.23	5.26	4.14	54.84	524.76	744.98	911.24	901.85	97.01	
2500.00	2500.00	2511.49	2510.88	5.48	4.34	54.80	525.25	744.60	911.22	901.40	92.81	
2600.00	2600.00	2612.14	2611.52	5.70	4.54	54.78	525.52	744.29	911.12	900.87	88.94	
2700.00	2700.00	2712.89	2712.27	5.93	4.75	54.76	525.60	744.02	910.95	900.27	85.32	



Weatherford International Ltd.

Anticollision Report



Weatherford

Company: Occidental Permian Ltd.
Field: Eddy Co. NM (Nad 27)
Reference Site: Misty 35 Fed #4H
Reference Well: Misty 35 Fed #4H
Reference Wellpath: 1

Date: 2/21/2013

Time: 17:00:32

Page: 11

Co-ordinate(NE) Reference: Well: Misty 35 Fed #4H, Grid North
Vertical (TVD) Reference: SITE 3535.7

Db: Sybase

Site: Smokey Bits State Corn 3H
Well: 3H
Wellpath: 1 V1

Inter-Site Error: 0.00 ft

Reference MD ft	TVD ft	Offset MD ft	Offset TVD ft	Semi-Major Axis Ref ft	Semi-Major Axis Offset ft	TFO-HS deg	Offset Location North ft	Offset Location East ft	Ctr-Ctr Distance ft	Edge Distance ft	Separation Factor	Warning
2800.00	2800.00	2813.71	2813.09	6.15	4.96	54.75	525.62	743.68	910.68	899.57	81.96	
2900.00	2900.00	2914.53	2913.91	6.38	5.17	54.73	525.59	743.27	910.33	898.78	78.84	
3000.00	3000.00	3014.65	3014.03	6.60	5.38	54.72	525.49	742.83	909.92	897.94	75.95	
3100.00	3100.00	3114.55	3113.93	6.83	5.59	54.72	525.28	742.48	909.51	897.10	73.26	
3200.00	3200.00	3214.45	3213.83	7.05	5.80	54.73	524.96	742.23	909.12	896.27	70.75	
3300.00	3300.00	3313.28	3312.65	7.28	6.00	54.74	524.62	742.07	908.79	895.52	68.45	
3400.00	3400.00	3412.01	3411.38	7.50	6.20	54.75	524.38	742.02	908.60	894.90	66.33	
3500.00	3500.00	3510.73	3510.11	7.73	6.40	54.76	524.23	742.06	908.55	894.43	64.35	
3600.00	3600.00	3609.64	3609.02	7.95	6.60	54.77	524.18	742.21	908.64	894.09	62.44	
3700.00	3700.00	3709.95	3709.32	8.18	6.81	54.78	524.04	742.44	908.76	893.77	60.64	
3800.00	3800.00	3810.96	3810.34	8.40	7.02	54.79	523.98	742.58	908.83	893.41	58.95	
3900.00	3900.00	3910.59	3909.97	8.63	7.23	54.80	523.86	742.62	908.80	892.94	57.30	
4000.00	4000.00	4008.76	4008.14	8.85	7.44	54.82	523.63	742.95	908.94	892.65	55.81	
4100.00	4100.00	4108.90	4108.27	9.08	7.65	54.83	523.72	743.22	909.20	892.48	54.37	
4200.00	4200.00	4211.13	4210.51	9.30	7.86	54.83	523.78	743.32	909.32	892.15	52.97	
4300.00	4300.00	4311.47	4310.84	9.53	8.08	54.83	523.74	743.27	909.26	891.65	51.65	
4400.00	4400.00	4410.38	4409.76	9.75	8.28	54.84	523.63	743.34	909.25	891.22	50.42	
4500.00	4500.00	4508.23	4507.61	9.98	8.49	54.85	523.54	743.60	909.42	890.96	49.26	
4600.00	4599.98	4607.14	4606.51	10.19	8.69	21.24	523.72	743.91	908.15	889.28	48.11	
4700.00	4699.84	4702.47	4701.84	10.39	8.88	21.38	524.11	744.41	903.94	884.68	46.92	
4800.00	4799.45	4800.89	4800.25	10.60	9.09	21.61	524.91	745.05	896.82	877.16	45.62	
4900.00	4898.70	4901.34	4900.70	10.81	9.30	21.96	525.72	745.66	886.45	866.40	44.21	
4965.28	4963.24	4961.67	4961.03	10.96	9.42	22.24	526.27	746.14	878.10	857.80	43.27	
5000.00	4997.50	4994.17	4993.52	11.04	9.49	22.36	526.64	746.50	873.43	852.99	42.73	
5100.00	5096.18	5093.36	5092.70	11.26	9.70	22.76	527.72	747.71	860.07	839.19	41.20	
5200.00	5194.87	5191.43	5190.76	11.50	9.90	23.16	528.83	748.87	846.75	825.44	39.73	
5300.00	5293.55	5287.79	5287.10	11.74	10.10	23.56	530.19	750.28	833.85	812.10	38.34	
5400.00	5392.24	5395.82	5395.11	11.99	10.33	24.03	531.15	751.27	820.25	798.04	36.93	
5500.00	5490.92	5491.36	5490.65	12.25	10.53	24.46	531.99	751.97	806.55	783.90	35.60	
5600.00	5589.60	5590.71	5589.98	12.51	10.74	24.89	533.37	752.85	793.30	770.19	34.33	
5700.00	5688.29	5699.14	5698.41	12.77	10.97	25.41	534.09	753.18	779.23	755.64	33.03	
5800.00	5786.97	5801.69	5800.96	13.04	11.19	25.94	534.06	752.78	764.27	740.22	31.77	
5900.00	5885.66	5901.57	5900.84	13.31	11.40	26.43	534.32	751.99	749.18	724.65	30.55	
6000.00	5984.34	6001.55	6000.81	13.59	11.61	26.92	534.85	750.82	733.94	708.95	29.36	
6100.00	6083.02	6101.23	6100.48	13.87	11.82	27.41	535.49	749.40	718.60	693.14	28.21	
6200.00	6181.71	6200.76	6200.00	14.16	12.03	27.95	535.73	748.06	703.19	677.24	27.11	
6300.00	6280.39	6293.84	6293.07	14.45	12.22	28.48	536.05	747.00	688.08	661.67	26.06	
6400.00	6379.08	6390.60	6389.83	14.74	12.42	29.03	536.90	746.41	673.73	646.85	25.07	
6500.00	6477.76	6491.67	6490.89	15.04	12.63	29.64	537.62	745.80	659.38	632.02	24.10	
6600.00	6576.44	6588.84	6588.05	15.34	12.83	30.26	538.25	745.09	644.97	617.12	23.16	
6700.00	6675.13	6680.80	6680.02	15.64	13.02	30.93	538.53	745.25	631.29	602.97	22.29	
6800.00	6773.81	6778.76	6777.97	15.94	13.23	31.75	538.44	746.39	618.43	589.63	21.47	
6900.00	6872.50	6878.45	6877.65	16.25	13.44	32.62	538.18	747.52	605.62	576.31	20.67	
7000.00	6971.18	6976.92	6976.11	16.56	13.64	33.51	538.02	748.53	592.88	563.08	19.89	
7100.00	7069.86	7075.25	7074.44	16.87	13.85	34.43	537.97	749.56	580.36	550.06	19.15	
7200.00	7168.55	7175.73	7174.91	17.18	14.06	35.40	538.02	750.44	567.88	537.06	18.43	
7300.00	7267.23	7275.49	7274.67	17.50	14.27	36.39	538.05	751.08	555.32	523.99	17.72	
7400.00	7365.92	7375.59	7374.77	17.81	14.48	37.43	538.03	751.49	542.71	510.85	17.03	
7500.00	7464.60	7474.90	7474.09	18.13	14.69	38.46	538.33	751.60	530.09	497.70	16.37	
7600.00	7563.28	7572.99	7572.17	18.45	14.90	39.51	538.85	751.61	517.63	484.71	15.72	
7700.00	7661.97	7670.87	7670.05	18.77	15.10	40.61	539.36	751.91	505.62	472.17	15.12	



Weatherford International Ltd.

Anticollision Report



Weatherford

Company: Occidental Permian Ltd.
Field: Eddy Co. NM (Nad 27)
Reference Site: Misty 35 Fed #4H
Reference Well: Misty 35 Fed #4H
Reference Wellpath: 1

Date: 2/21/2013

Time: 17:00:32

Page: 12

Co-ordinate(NE) Reference: Well: Misty 35 Fed #4H, Grid North
Vertical (TVD) Reference: SITE 3535.7

Db: Sybase

Site: Smokey Bits State Com 3H
Well: 3H
Wellpath: 1 V1

Inter-Site Error: 0.00 ft

Reference MD	TVD	Offset MD	TVD	Semi-Major Axis Ref	Offset	TFO-HS	Offset Location North	East	Ctr-Ctr Distance	Edge Distance	Separation Factor	Warning
7800.00	7760.65	7770.81	7769.99	19.10	15.31	41.77	540.03	752.04	493.69	459.70	14.52	
7900.00	7859.34	7839.65	7838.79	19.42	15.46	42.58	541.06	753.51	484.34	449.92	14.07	
7906.10	7865.36	7843.29	7842.43	19.44	15.47	42.62	541.14	753.74	484.01	449.57	14.05	
7950.00	7908.76	7870.53	7869.56	19.55	15.52	64.69	541.96	755.94	483.83	449.21	13.97	
8000.00	7958.26	7903.10	7901.89	19.59	15.59	92.83	543.26	759.64	488.55	453.83	14.07	
8050.00	8007.60	7939.80	7938.17	19.56	15.67	114.41	545.03	764.86	498.13	463.39	14.34	
8100.00	8056.54	7977.44	7975.27	19.45	15.75	128.00	546.59	771.01	512.05	477.39	14.77	
8150.00	8104.83	8008.54	8005.81	19.28	15.82	136.45	547.55	776.87	530.39	495.96	15.40	
8200.00	8152.25	8034.95	8031.55	19.07	15.88	141.90	548.41	782.68	553.36	519.28	16.24	
8250.00	8198.55	8063.00	8058.73	18.90	15.95	145.69	549.24	789.56	580.52	546.85	17.24	
8300.00	8243.53	8085.51	8080.39	18.80	16.00	148.23	549.83	795.63	611.54	578.42	18.47	
8350.00	8286.95	8106.98	8100.91	18.79	16.05	149.97	550.43	801.92	646.15	613.65	19.88	
8400.00	8328.60	8127.16	8120.08	18.83	16.10	151.05	551.15	808.18	683.85	652.00	21.47	
8450.00	8368.29	8144.73	8136.69	18.90	16.15	151.48	551.91	813.88	724.24	693.00	23.18	
8500.00	8405.82	8157.00	8148.23	19.01	16.18	151.12	552.50	818.01	766.96	736.28	25.00	
8550.00	8441.00	8169.98	8160.38	19.15	16.22	150.12	553.15	822.54	811.67	781.55	26.95	
8600.00	8473.67	8178.44	8168.25	19.34	16.24	147.89	553.57	825.59	858.04	828.31	28.86	
8650.00	8503.66	8184.86	8174.21	19.56	16.26	143.86	553.87	827.97	905.70	876.02	30.51	
8700.00	8530.84	8189.00	8178.04	19.83	16.27	136.41	554.07	829.52	954.32	923.94	31.41	
8750.00	8555.06	8189.00	8178.04	20.15	16.27	120.98	554.07	829.52	1003.61	970.97	30.75	
8800.00	8576.21	8189.00	8178.04	20.53	16.27	91.02	554.07	829.52	1053.25	1017.68	29.60	
8850.00	8594.19	8189.00	8178.04	20.96	16.27	53.66	554.07	829.52	1102.99	1069.65	33.08	
8900.00	8608.90	8189.00	8178.04	21.44	16.27	30.19	554.07	829.52	1152.58	1123.93	40.23	
8950.00	8620.28	8189.00	8178.04	21.98	16.27	18.25	554.07	829.52	1201.81	1176.22	46.97	
9000.00	8628.27	8189.00	8178.04	22.57	16.27	11.64	554.07	829.52	1250.49	1226.68	52.51	
9050.00	8632.84	8178.18	8168.01	23.21	16.24	7.27	553.55	825.50	1298.36	1275.53	56.87	
9095.51	8634.00	8172.41	8162.64	23.82	16.22	4.73	553.27	823.41	1341.14	1318.66	59.66	
9100.00	8633.97	8171.81	8162.08	23.88	16.22	4.72	553.24	823.19	1345.32	1322.82	59.78	
9200.00	8633.37	8157.00	8148.23	25.37	16.18	4.49	552.50	818.01	1438.71	1415.62	62.31	
9300.00	8632.76	8144.17	8136.16	27.01	16.15	4.29	551.88	813.70	1532.63	1508.96	64.74	
9400.00	8632.16	8125.00	8118.04	28.78	16.10	4.03	551.07	807.50	1626.99	1602.71	67.02	
9500.00	8631.56	8116.43	8109.90	30.65	16.08	3.93	550.75	804.81	1721.69	1696.78	69.13	
9600.00	8630.95	8103.68	8097.77	32.60	16.05	3.78	550.33	800.93	1816.75	1791.20	71.11	
9700.00	8630.35	8094.00	8088.53	34.63	16.02	3.68	550.05	798.07	1912.12	1885.91	72.97	
9800.00	8629.74	8083.57	8078.54	36.72	16.00	3.58	549.78	795.08	2007.79	1980.90	74.68	
9900.00	8629.14	8075.48	8070.77	38.85	15.98	3.50	549.57	792.85	2103.75	2076.17	76.29	
10000.00	8628.54	8063.00	8058.73	41.03	15.95	3.38	549.24	789.56	2199.99	2171.72	77.81	
10100.00	8627.93	8063.00	8058.73	43.25	15.95	3.38	549.24	789.56	2296.44	2267.47	79.27	
10200.00	8627.33	8051.37	8047.48	45.50	15.92	3.28	548.92	786.63	2393.09	2363.43	80.69	
10300.00	8626.73	8043.06	8039.43	47.77	15.90	3.20	548.67	784.61	2489.93	2459.58	82.04	
10400.00	8626.12	8031.00	8027.71	50.06	15.87	3.10	548.27	781.76	2586.94	2555.89	83.33	
10500.00	8625.52	8031.00	8027.71	52.38	15.87	3.10	548.27	781.76	2684.09	2652.33	84.52	
10600.00	8624.91	8031.00	8027.71	54.71	15.87	3.10	548.27	781.76	2781.44	2748.97	85.66	
10700.00	8624.31	8018.42	8015.46	57.06	15.85	2.99	547.86	778.94	2878.84	2845.66	86.76	
10800.00	8623.71	8013.73	8010.88	59.42	15.83	2.95	547.71	777.95	2976.43	2942.53	87.80	
10900.00	8623.10	8000.00	7997.44	61.79	15.80	2.85	547.30	775.17	3074.21	3039.59	88.81	
11000.00	8622.50	8000.00	7997.44	64.17	15.80	2.85	547.30	775.17	3171.98	3136.65	89.76	
11100.00	8621.90	8000.00	7997.44	66.56	15.80	2.85	547.30	775.17	3269.89	3233.83	90.68	
11200.00	8621.29	8000.00	7997.44	68.97	15.80	2.85	547.30	775.17	3367.93	3331.14	91.56	
11300.00	8620.69	8000.00	7997.44	71.37	15.80	2.85	547.30	775.17	3466.07	3428.56	92.40	
11400.00	8620.08	7986.18	7983.86	73.79	15.77	2.74	546.88	772.57	3564.22	3526.01	93.28	



Weatherford International Ltd.

Anticollision Report



Weatherford

Company: Occidental Permian Ltd
Field: Eddy Co, NM (Nad 27)
Reference Site: Misty 35 Fed #4H
Reference Well: Misty 35 Fed #4H
Reference Wellpath: 1

Date: 2/21/2013 Time: 17:00:32 Page: 13
Co-ordinate(NE) Reference: Well: Misty 35 Fed #4H, Grid North
Vertical (TVD) Reference: SITE 3535.7
Db: Sybase

Site: Smokey Bits State Com 3H
Well: 3H
Wellpath: 1 V1

Inter-Site Error: 0.00 ft

Reference		Offset		Semi-Major Axis		TFO-HS	Offset Location		Ctr-Ctr Distance	Edge Distance	Separation Factor	Warning
MD	TVD	MD	TVD	Ref	Offset		North	East				
ft	ft	ft	ft	ft	ft	deg	ft	ft	ft	ft		
11500.00	8619.48	7981.51	7979.28	76.21	15.76	2.71	546.73	771.73	3662.48	3623.55	94.09	
11600.00	8618.88	7968.00	7965.98	78.64	15.73	2.61	546.25	769.39	3760.85	3721.23	94.91	
11700.00	8618.27	7968.00	7965.98	81.07	15.73	2.61	546.25	769.39	3859.22	3818.86	95.63	
11800.00	8617.67	7968.00	7965.98	83.50	15.73	2.61	546.25	769.39	3957.66	3916.58	96.33	
11900.00	8617.07	7968.00	7965.98	85.95	15.73	2.61	546.25	769.39	4056.19	4014.37	97.00	
12000.00	8616.46	7958.11	7956.23	88.39	15.71	2.53	545.86	767.76	4154.74	4112.23	97.72	
12100.00	8615.86	7953.03	7951.23	90.84	15.70	2.49	545.64	766.94	4253.35	4210.12	98.39	
12200.00	8615.26	7948.12	7946.38	93.29	15.69	2.46	545.42	766.16	4352.01	4308.06	99.03	
12300.00	8614.65	7937.00	7935.41	95.74	15.67	2.37	544.89	764.44	4450.72	4406.08	99.70	
12400.00	8614.05	7937.00	7935.41	98.20	15.67	2.37	544.89	764.44	4549.44	4504.07	100.27	
12500.00	8613.44	7937.00	7935.41	100.66	15.67	2.37	544.89	764.44	4648.22	4602.12	100.82	
12600.00	8612.84	7937.00	7935.41	103.12	15.67	2.37	544.89	764.44	4747.05	4700.21	101.35	
12700.00	8612.24	7926.80	7925.34	105.59	15.64	2.29	544.38	762.92	4845.88	4798.35	101.94	
12800.00	8611.63	7923.11	7921.69	108.05	15.64	2.26	544.20	762.39	4944.77	4896.51	102.47	
12900.00	8611.03	7919.52	7918.14	110.52	15.63	2.24	544.03	761.88	5043.69	4994.71	102.98	
13000.00	8610.43	7916.04	7914.70	112.99	15.62	2.21	543.86	761.39	5142.64	5092.94	103.47	
13100.00	8609.82	7906.00	7904.76	115.47	15.60	2.14	543.39	760.02	5241.64	5191.24	103.99	
13200.00	8609.22	7906.00	7904.76	117.94	15.60	2.14	543.39	760.02	5340.64	5289.50	104.44	
13236.17	8609.00	7906.00	7904.76	118.84	15.60	2.14	543.39	760.02	5376.46	5325.06	104.60	

**Weatherford****Weatherford Drilling Services**

GeoDec v5.03

Report Date: October 25, 2012
Job Number: _____
Customer: Oxy
Well Name: Misty 35 Fed #4H
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 618993.300 USFT	Latitude 32.7010747 DEG
East/West 622854.300 USFT	Longitude -103.9339551 DEG
Grid Convergence: .22°	
Total Correction: +7.50°	

Geodetic Location WGS84	Elevation =	0.0 Meters
Latitude =	32.70107° N	32° 42 min 3.869 sec
Longitude =	103.93396° W	103° 56 min 2.238 sec

Magnetic Declination =	7.72°	[True North Offset]	
Local Gravity =	.9988 g	Checksum =	6666
Local Field Strength =	48727 nT	Magnetic Vector X =	23781 nT
Magnetic Dip =	60.49°	Magnetic Vector Y =	3223 nT
Magnetic Model =	bggm2012	Magnetic Vector Z =	42407 nT
Spud Date =	Dec 01, 2012	Magnetic Vector H =	23999 nT

Signed: _____

Date: _____