

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

OCD Artesia

FORM APPROVED
OMB NO. 1004-0135
Expires: July 31, 2010**SUNDRY NOTICES AND REPORTS ON WELLS****Do not use this form for proposals to drill or to re-enter an abandoned well. Use form 3160-3 (APD) for such proposals.**5. Lease Serial No.
NMNM05470C

6. If Indian, Allottee or Tribe Name

7. If Unit or CA/Agreement, Name and/or No.

8. Well Name and No.
CAPELLA 14 FEDERAL COM 2H9. API Well No.
30-015-39413-00-X110. Field and Pool, or Exploratory
HACKBERRY11. County or Parish, and State
EDDY COUNTY, NM**SUBMIT IN TRIPLICATE - Other instructions on reverse side.**

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator

DEVON ENERGY PRODUCTION CO LP

Contact: MELANIE A CRAWFORD

Email: melanie.crawford@devon.com

3a. Address

20 NORTH BROADWAY SUITE 1500
OKLAHOMA CITY, OK 73102

3b. Phone No. (include area code)

Ph: 405-552-4524

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

Sec 14 T19S R31E NWNE Lot B 330FNL 2490FEL

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.)

Devon Energy Production Co, LP respectfully request the proposed BHL will be moved as per the attached survey plat. The production casing & cement design will be revised according to the attached:

Attachments:

Revised directional survey and plat

Thank you.

Accepted for record

NMOCD

TOS
3/29/2012

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MAR 28 2012

NMOCD ARTESIA

14. I hereby certify that the foregoing is true and correct.

Electronic Submission #130206 verified by the BLM Well Information System

For DEVON ENERGY PRODUCTION CO LP, sent to the Carlsbad

Committed to AFMSS for processing by JAMES (JIM) HUGHES on 02/08/2012 (12JLH0421SE)

Name (Printed/Typed) MELANIE A CRAWFORD

Title REGULATORY ANALYST

Signature (Electronic Submission)

Date 02/06/2012

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By TED MORGAN

Title PETROLEUM ENGINEER

Date 02/23/2012

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office Carlsbad

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

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

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Rd., Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

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MAR 28 2012

Form C-102
Revised October 15, 2009
Submit one copy to appropriate
District Office

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number		² Pool Code		³ Pool Name	
⁴ Property Code		⁵ Property Name CAPELLA "14" FEDERAL COM			⁶ Well Number 2H
⁷ OGRID No. 6137		⁸ Operator Name DEVON ENERGY PRODUCTION COMPANY, L.P.			⁹ Elevation 3560.6

¹⁰ Surface Location									
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
B	14	19 S	31 E		330	NORTH	2490	EAST	EDDY

¹¹ Bottom Hole Location If Different From Surface									
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
F	14	19 S	31 E		330	SOUTH	1650	EAST	EDDY
¹² Dedicated Acres		¹³ Joint or Infill		¹⁴ Consolidation Code		¹⁵ Order No.			

No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.

NW CORNER SEC. 14 LAT. = 32.6677342°N LONG. = 103.8486015°W NMSP EAST (FT) N = 606993.34 E = 690500.15		SURFACE LOCATION CAPELLA "14" FEDERAL COM #2H ELEV. = 3560.6 LAT. = 32.6668392°N (NAD83) LONG. = 103.8395235°W NMSP EAST (FT) N = 606680.61 E = 693295.21		NE CORNER SEC. 14 LAT. = 32.6677538°N LONG. = 103.8314348°W NMSP EAST (FT) N = 607025.04 E = 695782.77	
SW CORNER SEC. 14 LAT. = 32.6532168°N LONG. = 103.8485586°W NMSP EAST (FT) N = 601711.81 E = 690537.49		BOTTOM OF HOLE LAT. = 32.6541417°N LONG. = 103.8367542°W NMSP EAST (FT) N = 602065.06 E = 694169.01		SE CORNER SEC. 14 LAT. = 32.6532411°N LONG. = 103.8313905°W NMSP EAST (FT) N = 601745.17 E = 695821.35	

17 OPERATOR CERTIFICATION
I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

Signature _____ Date _____
Printed Name _____

18 SURVEYOR CERTIFICATION
I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

JUNE 2, 2011
Date of Survey _____
Signature and Seal of Professional Surveyor _____
Certificate Number _____
SURVEY NO. 484-R

CAPELLA 14 FED COM 2H – DRILLING SUNDRY
MHC 02.06.12

The proposed BHL will be moved as per the attached survey plat. The production casing & cement design will be revised as follows:

Casing Program

<u>Hole Size</u>	<u>Hole Interval</u>	<u>OD Csg</u>	<u>Casing Interval</u>	<u>Weight</u>	<u>Collar</u>	<u>Grade</u>
8-3/4"	4,550 – 8,400	5-1/2"	0 – 8,400	17#	LTC	HCP-110
8-3/4"	8,400 – 13,799	5-1/2"	8,400 – 13,799	17#	BTC	HCP-110

MAX TVD: 9,150 FT

Design Factors

<u>Casing Size</u>	<u>Collapse Design Factor</u>	<u>Burst Design Factor</u>	<u>Tension Design Factor</u>
5-1/2" 17# HCP-110 LTC	1.6	2.0	1.5
5-1/2" 17# HCP-110 BTC	1.6	1.9	5.2

Cementing Program (cement volumes based on at least 25% excess)

5-1/2" Production

1st Stage

Lead: 600 sacks (35:65) Poz (Fly Ash):Class H Cement + 5% bwow Sodium Chloride + 0.3% bwoc CD-32 + 0.5% bwoc FL-25 + 2% bwoc Bentonite + 0.6% bwoc Sodium Metasilicate + 0.5% bwoc FL-52A + 102.5% Fresh Water, 12.5 ppg, 2.01 cf/sk

Tail: 1,500 sacks (50:50) Poz (Fly Ash):Class H Cement + 1% bwow Sodium Chloride + 0.2% bwoc R-3 + 0.125 lbs/sack Cello Flake + 0.5% bwoc BA-10A + 4% bwoc MPA-5 + 58.3% Fresh Water, 14.2 ppg, 1.28 cf/sk

DV TOOL at 5,500 ft

2nd Stage

Lead: 600 sacks Class C Cement + 1% bwow Calcium Chloride + 0.125 lbs/sack Cello Flake + 157.8% Fresh Water, 11.4 ppg, 2.89 cf/sk

Tail: 100 sacks (60:40) Poz (Fly Ash):Class C Cement + 1% bwow Sodium Chloride + 0.2% bwoc R-3 + 0.125 lbs/sack Cello Flake + 0.5% bwoc BA-10A + 4% bwoc MPA-5 + 63.2% Fresh Water, 13.8 ppg, 1.37 cf/sk

TOC @ 2,700 ft (approx 50 ft above the Capitan Reef top)

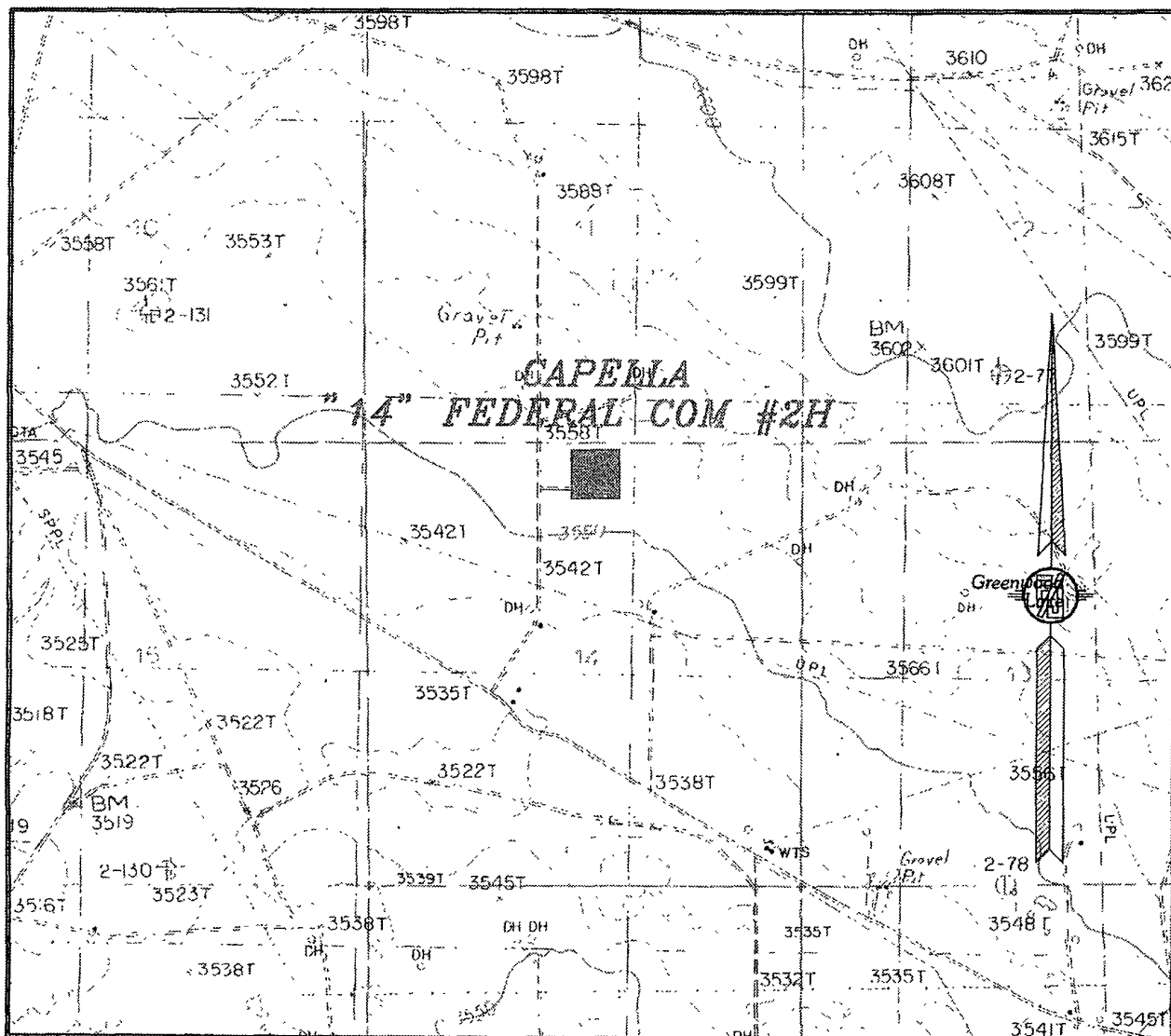
ACTUAL CEMENT VOLUMES WILL BE ADJUSTED BASED ON FLUID CALIPER AND CALIPER LOG DATA.

Bureau of Land Management
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FEB 08 2012

Corlehead Field Office
Corlehead, NM

SECTION 14, TOWNSHIP 19 SOUTH, RANGE 31 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO
LOCATION VERIFICATION MAP



CONTOUR INTERVAL:
GREENWOOD LAKE

NOT TO SCALE

DEVON ENERGY
CAPELLA "14" FEDERAL COM #2H
LOCATED 330 FT. FROM THE NORTH LINE
AND 2490 FT. FROM THE EAST LINE OF
SECTION 14, TOWNSHIP 19 SOUTH,
RANGE 31 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO

JUNE 2, 2011

Bureau of Land Management
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FEB 08 2012

Canby Field Office

SURVEY NO. 484

MADRON SURVEYING, INC. 301 SOUTH CANA, CARLSBAD, NEW MEXICO
(505) 706-9672

301 SOUTH CANA
(b/e) 70E-9672



Weatherford[®]

Drilling Services

Proposal



devon

CAPELLA 14 FEDERAL COM 2H

EDDY COUNTY, NM

WELL FILE: PLAN 2

FEBRUARY 6, 2012

Weatherford International, Ltd.

P.O. Box 61028

Midland, TX 79711 USA

+1.432.561.8892 Main

+1.432.561.8895 Fax

www.weatherford.com

Bureau of Land Management
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FEB 08 2012

Coronado Field Office
Coronado, NM

devon

Capella 14 Federal Com 2H
Eddy Co., New Mexico

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2	8497.13	0.00	0.00	8497.13	0.00	0.00	0.00	0.00	0.00	
3	9386.93	88.98	126.05	9070.00	-331.18	454.99	10.00	126.05	410.03	
4	10278.88	88.98	179.58	9087.16	-1095.91	847.79	6.00	90.52	1234.48	
5	13799.18	88.98	179.58	9150.00	-4615.55	873.81	0.00	0.00	4697.54	PBHL

WELL DETAILS

Name+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
2H	0.00	0.00	606680.61	32°40'00.609N	103°50'22.301W	N/A

TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Shape
PBHL	9150.00	-4615.55	873.81	602065.06	694169.01	Point

FIELD DETAILS

Eddy Co., NM (NAD 83)

Geodetic System: US State Plane Coordinate System 1983
Ellipsoid: GRS 1980
Zone: New Mexico, Eastern Zone
Magnetic Model: IGRF2010

System Datum: Mean Sea Level
Local North: Grid North

SITE DETAILS

Capella 14 Federal Com 2H

Site Centre Northing: 606680.61
Easting: 693295.20

Ground Level: 3560.60
Positional Uncertainty: 0.00
Convergence: 0.27



Azimuths to Grid North
True North: -0.27°
Magnetic North: 7.39°

Magnetic Field
Strength: 48804nT
Dip Angle: 60.53°
Date: 3/15/2012
Model: IGRF2010

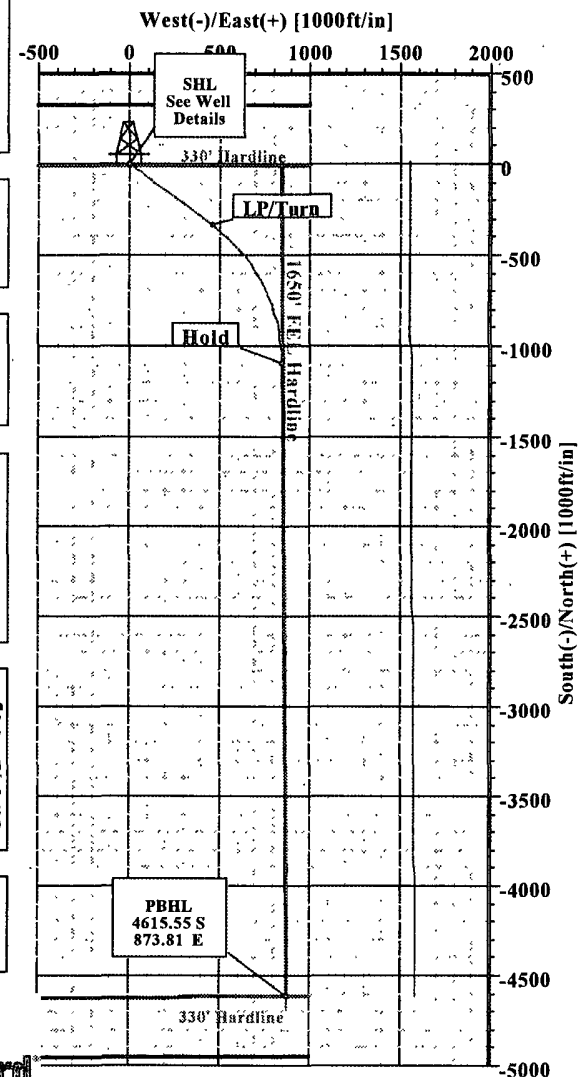
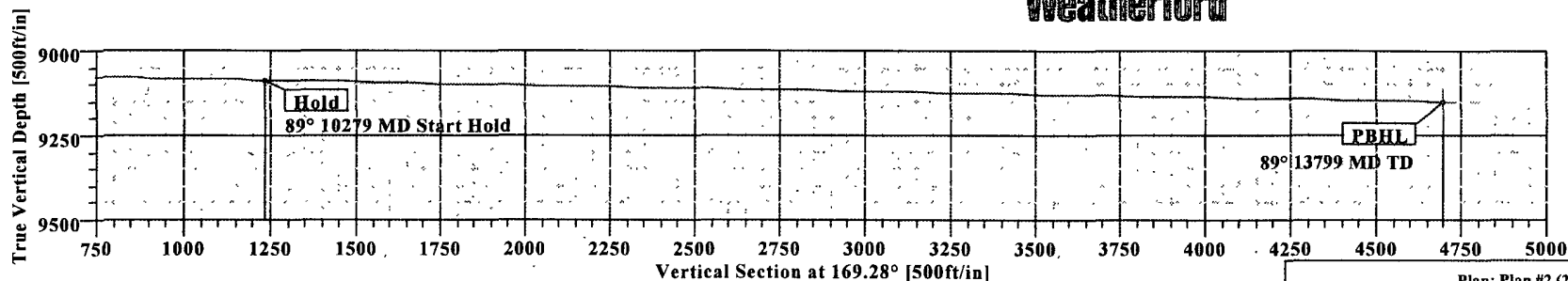
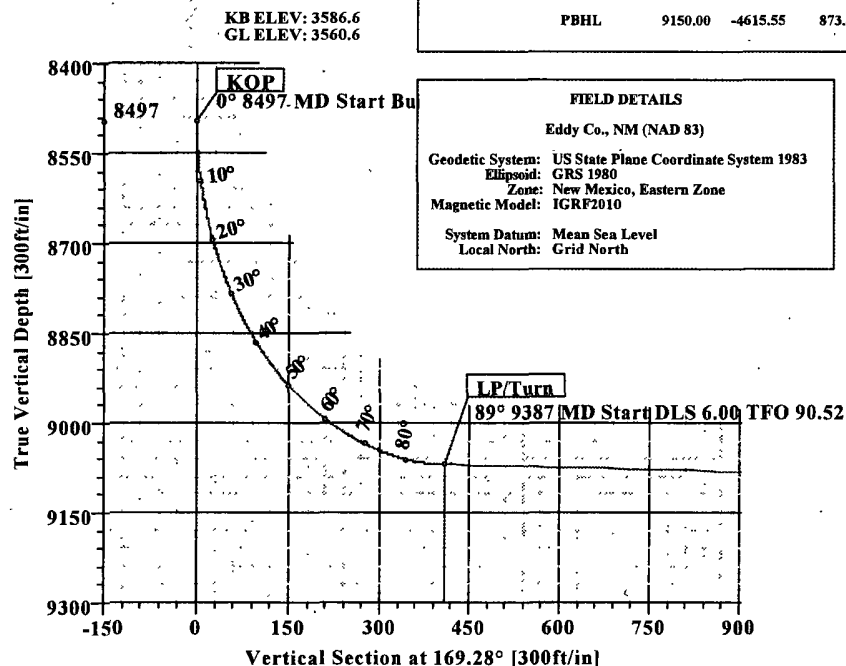
Total Correction to Grid North: 7.39°

LEGEND

- 1H (1)
- 3H (1)
- 1
- Plan #2



Weatherford



Plan: Plan #2 (2H/1)

Created By: Russell W. Joyner

Date: 2/6/2012

Company: Devon Energy	Date: 2/6/2012	Time: 08:48:01	Page: 1
Field: Eddy Co., NM (NAD 83)	Co-ordinate(NE) Reference:	Well: 2H; Grid North	
Site: Capella 14 Federal Com 2H	Vertical (TVD) Reference:	SITE 3586.6	
Well: 2H	Section (VS) Reference:	Well (0.00N, 0.00E, 169.28Azi)	
Wellpath: 1	Survey Calculation Method:	Minimum Curvature	Db: Sybase

Plan: Plan #2	Date Composed: 2/6/2012
Principal: Yes	Version: 1
	Tied-to: From Surface

Field: Eddy Co., NM (NAD 83)	
Map System: US State Plane Coordinate System 1983	Map Zone: New Mexico, Eastern Zone
Geo Datum: GRS 1980	Coordinate System: Well Centre
Sys Datum: Mean Sea Level	Geomagnetic Model: IGRF2010

Site: Capella 14 Federal Com 2H		
Site Position:	Northing: 606680.61 ft	Latitude: 32 40 0.609 N
From: Map	Easting: 693295.20 ft	Longitude: 103 50 22.301 W
Position Uncertainty: 0.00 ft		Grid
Ground Level: 3560.60 ft		North Reference: 0.27 deg
		Grid Convergence:

Well: 2H	Slot Name:
Well Position: +N-S 0.00 ft	Latitude: 32 40 0.609 N
+E-W 0.00 ft	Longitude: 103 50 22.301 W
Position Uncertainty: 0.00 ft	

Wellpath: 1	Drilled From: Surface
Current Datum: SITE	Tie-on Depth: 0.00 ft
Magnetic Data: 3/15/2012	Above System Datum: Mean Sea Level
Field Strength: 48804 nT	Declination: 7.65 deg
Vertical Section: Depth From (TVD)	Mag Dip Angle: 60 53 deg
ft	+N-S ft
	+E-W ft
0.00	0.00
	Direction deg
	169.28

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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
8497.13	0.00	0.00	8497.13	0.00	0.00	0.00	0.00	0.00	0.00	
9386.93	88.98	126.05	9070.00	-331.18	454.99	10.00	10.00	0.00	126.05	
10278.88	88.98	179.58	9087.16	-1095.91	847.79	6.00	0.00	6.00	90.52	
13799.18	88.98	179.58	9150.00	-4615.55	873.81	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
8400.00	0.00	0.00	8400.00	0.00	0.00	0.00	0.00	606680.61	693295.20	
8497.13	0.00	0.00	8497.13	0.00	0.00	0.00	0.00	606680.61	693295.20	KOP
8500.00	0.29	126.05	8500.00	0.00	0.01	0.01	10.00	606680.61	693295.21	
8600.00	10.29	126.05	8599.45	-5.42	7.45	6.71	10.00	606675.19	693302.65	
8700.00	20.29	126.05	8695.79	-20.92	28.74	25.90	10.00	606659.69	693323.94	
8800.00	30.29	126.05	8786.09	-46.02	63.23	56.98	10.00	606634.59	693358.43	
8900.00	40.29	126.05	8867.61	-79.97	109.87	99.02	10.00	606600.64	693405.07	
9000.00	50.29	126.05	8937.88	-121.74	167.26	150.73	10.00	606558.87	693462.46	
9100.00	60.29	126.05	8994.75	-170.06	233.63	210.54	10.00	606510.55	693528.83	
9200.00	70.29	126.05	9036.51	-223.45	306.98	276.65	10.00	606457.16	693602.18	
9300.00	80.29	126.05	9061.87	-280.29	385.08	347.03	10.00	606400.32	693680.28	
9386.93	88.98	126.05	9070.00	-331.18	454.99	410.03	10.00	606349.43	693750.19	LP/Turn
9400.00	88.97	126.83	9070.23	-338.94	465.50	419.61	6.00	606341.67	693760.70	
9500.00	88.93	132.84	9072.07	-402.96	542.25	496.79	6.00	606277.65	693837.45	
9600.00	88.89	138.84	9073.97	-474.65	611.87	580.18	6.00	606205.96	693907.07	
9700.00	88.87	144.84	9075.93	-553.22	673.62	668.87	6.00	606127.39	693968.82	



Company: Devon Energy	Date: 2/6/2012	Time: 08:48:01	Page: 2
Field: Eddy Co., NM (NAD 83)	Co-ordinate(NE) Reference:	Well: 2H; Grid North	
Site: Capella 14 Federal Com 2H	Vertical (TVD) Reference:	SITE 3586.6	
Well: 2H	Section (VS) Reference:	Well (0.00N,0.00E,169.28Azi)	
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
9800.00	88.86	150.84	9077.92	-637.82	726.82	761.88	6.00	606042.79	694022.02	
9900.00	88.86	156.84	9079.91	-727.52	770.88	858.21	6.00	605953.09	694066.08	
10000.00	88.87	162.84	9081.89	-821.33	805.32	956.79	6.00	605859.28	694100.52	
10100.00	88.90	168.84	9083.84	-918.23	829.77	1056.55	6.00	605762.38	694124.97	
10200.00	88.94	174.84	9085.73	-1017.15	843.95	1156.38	6.00	605663.46	694139.15	
10278.88	88.98	179.58	9087.16	-1095.91	847.79	1234.48	6.00	605584.70	694142.99	Hold
10300.00	88.98	179.58	9087.54	-1117.02	847.94	1255.25	0.00	605563.59	694143.14	
10400.00	88.98	179.58	9089.33	-1217.00	848.68	1353.63	0.00	605463.61	694143.88	
10500.00	88.98	179.58	9091.11	-1316.98	849.42	1452.00	0.00	605363.63	694144.62	
10600.00	88.98	179.58	9092.90	-1416.96	850.16	1550.37	0.00	605263.65	694145.36	
10700.00	88.98	179.58	9094.68	-1516.95	850.90	1648.75	0.00	605163.66	694146.10	
10800.00	88.98	179.58	9096.47	-1616.93	851.64	1747.12	0.00	605063.68	694146.84	
10900.00	88.98	179.58	9098.25	-1716.91	852.38	1845.50	0.00	604963.70	694147.58	
11000.00	88.98	179.58	9100.04	-1816.89	853.12	1943.87	0.00	604863.72	694148.32	
11100.00	88.98	179.58	9101.82	-1916.87	853.86	2042.24	0.00	604763.74	694149.06	
11200.00	88.98	179.58	9103.61	-2016.85	854.60	2140.62	0.00	604663.76	694149.80	
11300.00	88.98	179.58	9105.39	-2116.83	855.34	2238.99	0.00	604563.78	694150.54	
11400.00	88.98	179.58	9107.17	-2216.82	856.08	2337.37	0.00	604463.79	694151.28	
11500.00	88.98	179.58	9108.96	-2316.80	856.81	2435.74	0.00	604363.81	694152.01	
11600.00	88.98	179.58	9110.74	-2416.78	857.55	2534.11	0.00	604263.83	694152.75	
11700.00	88.98	179.58	9112.53	-2516.76	858.29	2632.49	0.00	604163.85	694153.49	
11800.00	88.98	179.58	9114.31	-2616.74	859.03	2730.86	0.00	604063.87	694154.23	
11900.00	88.98	179.58	9116.10	-2716.72	859.77	2829.24	0.00	603963.89	694154.97	
12000.00	88.98	179.58	9117.88	-2816.70	860.51	2927.61	0.00	603863.91	694155.71	
12100.00	88.98	179.58	9119.67	-2916.68	861.25	3025.98	0.00	603763.93	694156.45	
12200.00	88.98	179.58	9121.45	-3016.67	861.99	3124.36	0.00	603663.94	694157.19	
12300.00	88.98	179.58	9123.24	-3116.65	862.73	3222.73	0.00	603563.96	694157.93	
12400.00	88.98	179.58	9125.02	-3216.63	863.47	3321.11	0.00	603463.98	694158.67	
12500.00	88.98	179.58	9126.81	-3316.61	864.21	3419.48	0.00	603364.00	694159.41	
12600.00	88.98	179.58	9128.59	-3416.59	864.95	3517.85	0.00	603264.02	694160.15	
12700.00	88.98	179.58	9130.38	-3516.57	865.68	3616.23	0.00	603164.04	694160.88	
12800.00	88.98	179.58	9132.16	-3616.55	866.42	3714.60	0.00	603064.06	694161.62	
12900.00	88.98	179.58	9133.95	-3716.54	867.16	3812.97	0.00	602964.07	694162.36	
13000.00	88.98	179.58	9135.73	-3816.52	867.90	3911.35	0.00	602864.09	694163.10	
13100.00	88.98	179.58	9137.52	-3916.50	868.64	4009.72	0.00	602764.11	694163.84	
13200.00	88.98	179.58	9139.30	-4016.48	869.38	4108.10	0.00	602664.13	694164.58	
13300.00	88.98	179.58	9141.09	-4116.46	870.12	4206.47	0.00	602564.15	694165.32	
13400.00	88.98	179.58	9142.87	-4216.44	870.86	4304.84	0.00	602464.17	694166.06	
13500.00	88.98	179.58	9144.66	-4316.42	871.60	4403.22	0.00	602364.19	694166.80	
13600.00	88.98	179.58	9146.44	-4416.40	872.34	4501.59	0.00	602264.21	694167.54	
13700.00	88.98	179.58	9148.23	-4516.39	873.08	4599.97	0.00	602164.22	694168.28	
13799.18	88.98	179.58	9150.00	-4615.55	873.81	4697.54	0.00	602065.06	694169.01	PBHL

Targets

Name	Description	TVD	+N/-S	+E/-W	Map Northing	Map Easting	Latitude Deg Min Sec	Longitude Deg Min Sec
PBHL		9150.00	-4615.55	873.81	602065.06	694169.01	32 39 14.898 N	103 50 12.331 W



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



Weatherford

Company: Devon Energy	Date: 2/6/2012	Time: 08:48:01	Page: 3
Field: Eddy Co., NM (NAD 83)	Co-ordinate(NE) Reference:	Well: 2H, Grid North	
Site: Capella 14 Federal Com 2H	Vertical (TVD) Reference:	SITE 3586.6	
Well: 2H	Section (VS) Reference:	Well (0.00N,0.00E,169.28Azi)	
Wellpath: 1	Survey Calculation Method:	Minimum Curvature	Db: Sybase

Casing Points

MD	TVD	Diameter	Hole Size	Name

Annotation

MD ft	TVD ft	
8497.13	8497.13	KOP
9386.93	9070.00	LP/Turn
10278.88	9087.16	Hold
13799.18	9150.00	PBHL

Formations

MD	TVD	Formations	Lithology	Dip Angle	Dip Direction

Bureau of Land Management
RECEIVED

FEB 08 2012

Corlebad Field Office
Corlebad, NM



Weatherford International Ltd.

Anticollision Report

**Weatherford**

Company: Devon Energy Date: 2/6/2012 Time: 08:47:42 Page: 1
Field: Eddy Co., NM (NAD 83)
Reference Site: Capella 14 Federal Com 2H Co-ordinate(NE) Reference: Well: 2H, Grid North
Reference Well: 2H Vertical (TVD) Reference: SITE 3586.6
Reference Wellpath: 1 Db: Sybase

NO GLOBAL SCAN: Using user defined selection & scan criteria
Interpolation Method: MD Interval: 100.00 ft
Depth Range: 0.00 to 13799.18 ft
Maximum Radius: 10000.00 ft

Reference: Plan: Plan #2
Error Model: ISCWSA Ellipse
Scan Method: Closest Approach 3D
Error Surface: Ellipse

Plan: Plan #2 Date Composed: 2/6/2012
Principal: Yes Version: 1
Tied-to: From Surface

Summary

Site	Offset Wellpath Well	Wellpath	Reference MD ft	Offset MD ft	Ctr-Ctr Distance ft	Edge Distance ft	Separation Factor	Warning
Capella 14 Federal C1H		1 V0 Plan: Plan #1 V1	13799.18	13462.08	709.11	534.16	4.05	

Site: Capella 14 Federal Com 1H
Well: 1H
Wellpath: 1 V0 Plan: Plan #1 V1

Inter-Site Error: 0.00 ft

Reference MD ft	TVD ft	Offset MD ft	TVD ft	Semi-Major Axis Ref ft	Offset ft	TFO-HS deg	Offset Location North ft	East ft	Ctr-Ctr Distance ft	Edge Distance ft	Separation Factor	Warning
0.00	0.00	4.00	4.00	0.00	0.00	89.67	8.95	1550.02	1550.05			No Data
100.00	100.00	104.00	104.00	0.08	0.09	89.67	8.95	1550.02	1550.05	1549.87	8841.36	
200.00	200.00	204.00	204.00	0.31	0.32	89.67	8.95	1550.02	1550.05	1549.42	2480.67	
300.00	300.00	304.00	304.00	0.53	0.54	89.67	8.95	1550.02	1550.05	1548.97	1442.73	
400.00	400.00	404.00	404.00	0.76	0.77	89.67	8.95	1550.02	1550.05	1548.52	1017.15	
500.00	500.00	504.00	504.00	0.98	0.99	89.67	8.95	1550.02	1550.05	1548.07	785.45	
600.00	600.00	604.00	604.00	1.21	1.22	89.67	8.95	1550.02	1550.05	1547.62	639.73	
700.00	700.00	704.00	704.00	1.43	1.44	89.67	8.95	1550.02	1550.05	1547.17	539.61	
800.00	800.00	804.00	804.00	1.66	1.67	89.67	8.95	1550.02	1550.05	1546.72	466.59	
900.00	900.00	904.00	904.00	1.88	1.89	89.67	8.95	1550.02	1550.05	1546.27	410.98	
1000.00	1000.00	1004.00	1004.00	2.11	2.12	89.67	8.95	1550.02	1550.05	1545.82	367.21	
1100.00	1100.00	1104.00	1104.00	2.33	2.34	89.67	8.95	1550.02	1550.05	1545.38	331.87	
1200.00	1200.00	1204.00	1204.00	2.56	2.56	89.67	8.95	1550.02	1550.05	1544.93	302.73	
1300.00	1300.00	1304.00	1304.00	2.78	2.79	89.67	8.95	1550.02	1550.05	1544.48	278.30	
1400.00	1400.00	1404.00	1404.00	3.01	3.01	89.67	8.95	1550.02	1550.05	1544.03	257.52	
1500.00	1500.00	1504.00	1504.00	3.23	3.24	89.67	8.95	1550.02	1550.05	1543.58	239.62	
1600.00	1600.00	1604.00	1604.00	3.45	3.46	89.67	8.95	1550.02	1550.05	1543.13	224.05	
1700.00	1700.00	1704.00	1704.00	3.68	3.69	89.67	8.95	1550.02	1550.05	1542.68	210.38	
1800.00	1800.00	1804.00	1804.00	3.90	3.91	89.67	8.95	1550.02	1550.05	1542.23	198.28	
1900.00	1900.00	1904.00	1904.00	4.13	4.14	89.67	8.95	1550.02	1550.05	1541.78	187.50	
2000.00	2000.00	2004.00	2004.00	4.35	4.36	89.67	8.95	1550.02	1550.05	1541.33	177.83	
2100.00	2100.00	2104.00	2104.00	4.58	4.59	89.67	8.95	1550.02	1550.05	1540.88	169.11	
2200.00	2200.00	2204.00	2204.00	4.80	4.81	89.67	8.95	1550.02	1550.05	1540.43	161.20	
2300.00	2300.00	2304.00	2304.00	5.03	5.04	89.67	8.95	1550.02	1550.05	1539.98	154.00	
2400.00	2400.00	2404.00	2404.00	5.25	5.26	89.67	8.95	1550.02	1550.05	1539.53	147.42	
2500.00	2500.00	2504.00	2504.00	5.48	5.49	89.67	8.95	1550.02	1550.05	1539.08	141.37	
2600.00	2600.00	2604.00	2604.00	5.70	5.71	89.67	8.95	1550.02	1550.05	1538.63	135.81	
2700.00	2700.00	2704.00	2704.00	5.93	5.94	89.67	8.95	1550.02	1550.05	1538.18	130.66	
2800.00	2800.00	2804.00	2804.00	6.15	6.16	89.67	8.95	1550.02	1550.05	1537.73	125.89	
2900.00	2900.00	2904.00	2904.00	6.38	6.39	89.67	8.95	1550.02	1550.05	1537.28	121.46	
3000.00	3000.00	3004.00	3004.00	6.60	6.61	89.67	8.95	1550.02	1550.05	1536.83	117.32	
3100.00	3100.00	3104.00	3104.00	6.83	6.84	89.67	8.95	1550.02	1550.05	1536.38	113.46	
3200.00	3200.00	3204.00	3204.00	7.05	7.06	89.67	8.95	1550.02	1550.05	1535.94	109.85	
3300.00	3300.00	3304.00	3304.00	7.28	7.28	89.67	8.95	1550.02	1550.05	1535.49	106.46	
3400.00	3400.00	3404.00	3404.00	7.50	7.51	89.67	8.95	1550.02	1550.05	1535.04	103.27	
3500.00	3500.00	3504.00	3504.00	7.73	7.73	89.67	8.95	1550.02	1550.05	1534.59	100.27	



Weatherford International Ltd.

Anticollision Report

**Weatherford**

Company: Devon Energy Date: 2/6/2012 Time: 08:47:42 Page: 2
Field: Eddy Co. NM (NAD 83)
Reference Site: Capella 14 Federal Com 2H Co-ordinate(NE) Reference: Well: 2H, Grid North
Reference Well: 2H Vertical (TVD) Reference: SITE 3586.6
Reference Wellpath: 1 Db: Sybase

Site: Capella 14 Federal Com 1H
Well: 1H
Wellpath: 1 VO Plan: Plan #1 V1

Inter-Site Error: 0.00 ft

Reference		Offset		Semi-Major Axis		Offset Location			Ctr-Ctr	Edge	Separation	Warning
MD ft	TVD ft	MD ft	TVD ft	Ref ft	Offset ft	TFO-HS deg	North ft	East ft	Distance ft	Distance ft	Factor	
3600.00	3600.00	3604.00	3604.00	7.95	7.96	89.67	8.95	1550.02	1550.05	1534.14	97.43	
3700.00	3700.00	3704.00	3704.00	8.17	8.18	89.67	8.95	1550.02	1550.05	1533.69	94.75	
3800.00	3800.00	3804.00	3804.00	8.40	8.41	89.67	8.95	1550.02	1550.05	1533.24	92.22	
3900.00	3900.00	3904.00	3904.00	8.62	8.63	89.67	8.95	1550.02	1550.05	1532.79	89.82	
4000.00	4000.00	4004.00	4004.00	8.85	8.86	89.67	8.95	1550.02	1550.05	1532.34	87.54	
4100.00	4100.00	4104.00	4104.00	9.07	9.08	89.67	8.95	1550.02	1550.05	1531.89	85.37	
4200.00	4200.00	4204.00	4204.00	9.30	9.31	89.67	8.95	1550.02	1550.05	1531.44	83.31	
4300.00	4300.00	4304.00	4304.00	9.52	9.53	89.67	8.95	1550.02	1550.05	1530.99	81.34	
4400.00	4400.00	4404.00	4404.00	9.75	9.76	89.67	8.95	1550.02	1550.05	1530.54	79.47	
4500.00	4500.00	4504.00	4504.00	9.97	9.98	89.67	8.95	1550.02	1550.05	1530.09	77.68	
4600.00	4600.00	4604.00	4604.00	10.20	10.21	89.67	8.95	1550.02	1550.05	1529.64	75.97	
4700.00	4700.00	4704.00	4704.00	10.42	10.43	89.67	8.95	1550.02	1550.05	1529.19	74.33	
4800.00	4800.00	4804.00	4804.00	10.65	10.66	89.67	8.95	1550.02	1550.05	1528.74	72.76	
4900.00	4900.00	4904.00	4904.00	10.87	10.88	89.67	8.95	1550.02	1550.05	1528.29	71.26	
5000.00	5000.00	5004.00	5004.00	11.10	11.11	89.67	8.95	1550.02	1550.05	1527.84	69.81	
5100.00	5100.00	5104.00	5104.00	11.32	11.33	89.67	8.95	1550.02	1550.05	1527.39	68.43	
5200.00	5200.00	5204.00	5204.00	11.55	11.56	89.67	8.95	1550.02	1550.05	1526.94	67.10	
5300.00	5300.00	5304.00	5304.00	11.77	11.78	89.67	8.95	1550.02	1550.05	1526.49	65.82	
5400.00	5400.00	5404.00	5404.00	12.00	12.00	89.67	8.95	1550.02	1550.05	1526.05	64.58	
5500.00	5500.00	5504.00	5504.00	12.22	12.23	89.67	8.95	1550.02	1550.05	1525.60	63.40	
5600.00	5600.00	5604.00	5604.00	12.45	12.45	89.67	8.95	1550.02	1550.05	1525.15	62.25	
5700.00	5700.00	5704.00	5704.00	12.67	12.68	89.67	8.95	1550.02	1550.05	1524.70	61.15	
5800.00	5800.00	5804.00	5804.00	12.89	12.90	89.67	8.95	1550.02	1550.05	1524.25	60.08	
5900.00	5900.00	5904.00	5904.00	13.12	13.13	89.67	8.95	1550.02	1550.05	1523.80	59.05	
6000.00	6000.00	6004.00	6004.00	13.34	13.35	89.67	8.95	1550.02	1550.05	1523.35	58.06	
6100.00	6100.00	6104.00	6104.00	13.57	13.58	89.67	8.95	1550.02	1550.05	1522.90	57.10	
6200.00	6200.00	6204.00	6204.00	13.79	13.80	89.67	8.95	1550.02	1550.05	1522.45	56.17	
6300.00	6300.00	6304.00	6304.00	14.02	14.03	89.67	8.95	1550.02	1550.05	1522.00	55.27	
6400.00	6400.00	6404.00	6404.00	14.24	14.25	89.67	8.95	1550.02	1550.05	1521.55	54.40	
6500.00	6500.00	6504.00	6504.00	14.47	14.48	89.67	8.95	1550.02	1550.05	1521.10	53.55	
6600.00	6600.00	6604.00	6604.00	14.69	14.70	89.67	8.95	1550.02	1550.05	1520.65	52.73	
6700.00	6700.00	6704.00	6704.00	14.92	14.93	89.67	8.95	1550.02	1550.05	1520.20	51.94	
6800.00	6800.00	6804.00	6804.00	15.14	15.15	89.67	8.95	1550.02	1550.05	1519.75	51.17	
6900.00	6900.00	6904.00	6904.00	15.37	15.38	89.67	8.95	1550.02	1550.05	1519.30	50.42	
7000.00	7000.00	7004.00	7004.00	15.59	15.60	89.67	8.95	1550.02	1550.05	1518.85	49.69	
7100.00	7100.00	7104.00	7104.00	15.82	15.83	89.67	8.95	1550.02	1550.05	1518.40	48.99	
7200.00	7200.00	7204.00	7204.00	16.04	16.05	89.67	8.95	1550.02	1550.05	1517.95	48.30	
7300.00	7300.00	7304.00	7304.00	16.27	16.28	89.67	8.95	1550.02	1550.05	1517.50	47.63	
7400.00	7400.00	7404.00	7404.00	16.49	16.50	89.67	8.95	1550.02	1550.05	1517.05	46.98	
7500.00	7500.00	7504.00	7504.00	16.72	16.72	89.67	8.95	1550.02	1550.05	1516.61	46.35	
7600.00	7600.00	7604.00	7604.00	16.94	16.95	89.67	8.95	1550.02	1550.05	1516.16	45.74	
7700.00	7700.00	7704.00	7704.00	17.17	17.17	89.67	8.95	1550.02	1550.05	1515.71	45.14	
7800.00	7800.00	7804.00	7804.00	17.39	17.40	89.67	8.95	1550.02	1550.05	1515.26	44.56	
7900.00	7900.00	7904.00	7904.00	17.61	17.62	89.67	8.95	1550.02	1550.05	1514.81	43.99	
8000.00	8000.00	8004.00	8004.00	17.84	17.85	89.67	8.95	1550.02	1550.05	1514.36	43.43	
8100.00	8100.00	8104.00	8104.00	18.06	18.07	89.67	8.95	1550.02	1550.05	1513.91	42.89	
8200.00	8200.00	8204.00	8204.00	18.29	18.30	89.67	8.95	1550.02	1550.05	1513.46	42.37	
8300.00	8300.00	8304.00	8304.00	18.51	18.52	89.67	8.95	1550.02	1550.05	1513.01	41.85	
8400.00	8400.00	8404.00	8404.00	18.74	18.75	89.67	8.95	1550.02	1550.05	1512.56	41.35	
8500.00	8500.00	8504.00	8504.00	18.96	18.97	323.62	8.95	1550.02	1550.04	1512.10	40.86	
8600.00	8599.45	8603.58	8603.45	19.14	19.20	323.10	5.57	1550.04	1542.64	1504.43	40.38	



Weatherford International Ltd.

Anticollision Report

**Weatherford**

Company: Devon Energy Date: 2/6/2012 Time: 08:47:42 Page: 3
Field: Eddy Co., NM (NAD 83)
Reference Site: Capella 14 Federal Com 2H Co-ordinate(NE) Reference: Well: 2H, Grid North
Reference Well: 2H Vertical (TVD) Reference: SITE 3586.6
Reference Wellpath: 1 Db: Sybase

Site: Capella 14 Federal Com 1H

Well: 1H

Wellpath: 1 VO Plan: Plan #1 V1

Inter-Site Error: 0.00 ft

Reference		Offset		Semi-Major Axis		Offset Location		Ctr-Ctr		Edge Separation		Warning
MD	TVD	MD	TVD	Ref	Offset	TFO-HS	North	East	Distance	Distance	Factor	
ft	ft	ft	ft	ft	ft	deg	ft	ft	ft	ft		
8700.00	8695.79	8700.80	8698.45	19.33	19.43	321.95	-14.40	1550.19	1521.46	1483.22	39.78	
8800.00	8786.09	8792.35	8783.08	19.55	19.66	320.09	-49.03	1550.43	1487.22	1449.07	38.98	
8900.00	8867.61	8876.18	8854.17	19.84	19.90	317.26	-93.29	1550.75	1441.04	1402.95	37.84	
9000.00	8937.88	8951.78	8911.45	20.25	20.15	313.09	-142.51	1551.10	1384.33	1346.03	36.14	
9100.00	8994.75	9019.73	8956.39	20.85	20.43	307.07	-193.42	1551.46	1318.72	1279.60	33.71	
9200.00	9036.51	9081.27	8991.06	21.69	20.72	298.59	-244.22	1551.82	1245.99	1205.24	30.57	
9300.00	9061.87	9137.88	9017.46	22.77	21.02	287.14	-294.26	1552.18	1168.18	1125.10	27.11	
9400.00	9070.23	9191.26	9037.24	24.07	21.34	274.64	-343.82	1552.53	1087.67	1042.31	23.98	
9500.00	9072.07	9250.43	9053.12	25.40	21.74	273.06	-400.78	1552.94	1010.95	963.84	21.46	
9600.00	9073.97	9319.62	9063.35	26.71	22.25	272.13	-469.15	1553.42	941.68	892.73	19.24	
9700.00	9075.93	9397.77	9065.95	27.93	22.89	271.89	-547.24	1553.98	880.49	829.68	17.33	
9800.00	9077.92	9482.77	9067.71	28.98	23.67	271.75	-632.22	1554.58	827.90	775.26	15.73	
9900.00	9079.91	9572.80	9069.57	29.83	24.57	271.61	-722.23	1555.22	784.49	730.10	14.42	
10000.00	9081.89	9666.87	9071.52	30.44	25.59	271.49	-816.28	1555.89	750.72	694.70	13.40	
10100.00	9083.84	9763.96	9073.52	30.79	26.71	271.36	-913.35	1556.58	726.97	669.47	12.64	
10200.00	9085.73	9863.01	9075.57	30.88	27.93	271.23	-1012.37	1557.29	713.50	654.69	12.13	
10300.00	9087.54	9962.91	9077.64	31.02	29.23	271.12	-1112.26	1558.00	710.21	649.97	11.79	
10400.00	9089.33	10062.91	9079.71	32.23	30.58	271.10	-1212.23	1558.71	710.17	647.38	11.31	
10500.00	9091.11	10162.91	9081.77	33.49	31.97	271.08	-1312.21	1559.42	710.14	644.68	10.85	
10600.00	9092.90	10262.91	9083.84	34.81	33.41	271.05	-1412.18	1560.13	710.11	641.89	10.41	
10700.00	9094.68	10362.91	9085.91	36.17	34.89	271.03	-1512.16	1560.85	710.08	639.02	9.99	
10800.00	9096.47	10462.91	9087.98	37.57	36.40	271.01	-1612.13	1561.56	710.04	636.08	9.60	
10900.00	9098.25	10562.91	9090.04	39.01	37.93	270.99	-1712.11	1562.27	710.01	633.07	9.23	
11000.00	9100.04	10662.91	9092.11	40.48	39.50	270.96	-1812.08	1562.98	709.98	630.01	8.88	
11100.00	9101.82	10762.91	9094.18	41.98	41.08	270.94	-1912.06	1563.69	709.95	626.89	8.55	
11200.00	9103.61	10862.91	9096.25	43.50	42.69	270.92	-2012.04	1564.40	709.91	623.73	8.24	
11300.00	9105.39	10962.91	9098.31	45.05	44.31	270.89	-2112.01	1565.11	709.88	620.53	7.94	
11400.00	9107.17	11062.91	9100.38	46.61	45.95	270.87	-2211.99	1565.83	709.85	617.29	7.67	
11500.00	9108.96	11162.91	9102.45	48.20	47.60	270.85	-2311.96	1566.54	709.82	614.02	7.41	
11600.00	9110.74	11262.91	9104.52	49.80	49.26	270.83	-2411.94	1567.25	709.79	610.72	7.17	
11700.00	9112.53	11362.91	9106.58	51.42	50.94	270.80	-2511.91	1567.96	709.75	607.40	6.93	
11800.00	9114.31	11462.91	9108.65	53.05	52.63	270.78	-2611.89	1568.67	709.72	604.05	6.72	
11900.00	9116.10	11562.91	9110.72	54.70	54.32	270.76	-2711.87	1569.38	709.69	600.67	6.51	
12000.00	9117.88	11662.91	9112.79	56.36	56.03	270.73	-2811.84	1570.09	709.66	597.28	6.31	
12100.00	9119.67	11762.91	9114.85	58.02	57.74	270.71	-2911.82	1570.81	709.63	593.87	6.13	
12200.00	9121.45	11862.91	9116.92	59.70	59.46	270.69	-3011.79	1571.52	709.60	590.44	5.96	
12300.00	9123.24	11962.91	9118.99	61.39	61.19	270.67	-3111.77	1572.23	709.57	587.00	5.79	
12400.00	9125.02	12062.91	9121.06	63.08	62.92	270.64	-3211.74	1572.94	709.53	583.54	5.63	
12500.00	9126.81	12162.91	9123.13	64.78	64.66	270.62	-3311.72	1573.65	709.50	580.07	5.48	
12600.00	9128.59	12262.91	9125.19	66.49	66.40	270.60	-3411.70	1574.36	709.47	576.59	5.34	
12700.00	9130.38	12362.90	9127.26	68.20	68.15	270.58	-3511.67	1575.08	709.44	573.10	5.20	
12800.00	9132.16	12462.90	9129.33	69.92	69.90	270.55	-3611.65	1575.79	709.41	569.59	5.07	
12900.00	9133.95	12562.90	9131.40	71.65	71.65	270.53	-3711.62	1576.50	709.38	566.08	4.95	
13000.00	9135.73	12662.90	9133.46	73.38	73.41	270.51	-3811.60	1577.21	709.35	562.56	4.83	
13100.00	9137.52	12762.90	9135.53	75.12	75.18	270.48	-3911.57	1577.92	709.32	559.03	4.72	
13200.00	9139.30	12862.90	9137.60	76.86	76.94	270.46	-4011.55	1578.63	709.29	555.49	4.61	
13300.00	9141.09	12962.90	9139.67	78.60	78.71	270.44	-4111.53	1579.34	709.26	551.95	4.51	
13400.00	9142.87	13062.90	9141.73	80.35	80.48	270.42	-4211.50	1580.06	709.23	548.40	4.41	
13500.00	9144.66	13162.90	9143.80	82.10	82.26	270.39	-4311.48	1580.77	709.20	544.84	4.31	
13600.00	9146.44	13262.90	9145.87	83.86	84.04	270.37	-4411.45	1581.48	709.17	541.28	4.22	
13700.00	9148.23	13362.90	9147.94	85.62	85.82	270.35	-4511.43	1582.19	709.14	537.71	4.14	



Weatherford International Ltd.

Anticollision Report

**Weatherford**

Company: Devon Energy Date: 2/6/2012 Time: 08:47:42 Page: 4
Field: Eddy Co., NM (NAD 83)
Reference Site: Capella 14 Federal Com 2H Co-ordinate(NE) Reference: Well: 2H, Grid North
Reference Well: 2H Vertical (TVD) Reference: SITE 3586.6
Reference Wellpath: 1 Db: Sybase

Site: Capella 14 Federal Com 1H
Well: 1H
Wellpath: 1 V0 Plan Plan #1 V1

Inter-Site Error: 0.00 ft

Reference		Offset		Semi-Major Axis		Offset Location			Ctr-Ctr	Edge	Separation	Warning
MD	TVD	MD	TVD	Ref	Offset	TFO-HS	North	East	Distance	Distance	Factor	
ft	ft	ft	ft	ft	ft	deg	ft	ft	ft	ft		
13799.18	9150.00	13462.08	9149.99	87.37	87.58	270.32	-4610.59	1582.90	709.11	534.16	4.05	

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FEB 08 2012

Carlsbad Field Office
Carlsbad, NM

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

GeoDec v5.03

Report Date: June 22, 2011
Job Number: _____
Customer: Devon
Well Name: Capella 14 Federal Com 2H
API Number: _____
Rig Name: _____
Location: Eddy Co., NM
Block: _____
Engineer: KRN

US State Plane 1983	Geodetic Latitude / Longitude
System: New Mexico Eastern Zone	System: Latitude / Longitude
Projection: Transverse Mercator/Gauss Kruger	Projection: Geodetic Latitude and Longitude
Datum: North American Datum 1983	Datum: NAD 1927 (NADCON CONUS)
Ellipsoid: GRS 1980	Ellipsoid: Clarke 1866
North/South 606680.610 USFT	Latitude 32.6667192 DEG
East/West 693295.200 USFT	Longitude -103.8390215 DEG
Grid Convergence: .27°	
Total Correction: +7.38°	

Geodetic Location WGS84	Elevation =	0.0 Meters
Latitude =	32.66672° N	32° 40 min .189 sec
Longitude =	103.83902° W	103° 50 min 20.477 sec

Magnetic Declination =	7.65°	[True North Offset]
Local Gravity =	.9988 g	Checksum = 6607
Local Field Strength =	48800 nT	Magnetic Vector X = 23793 nT
Magnetic Dip =	60.53°	Magnetic Vector Y = 3197 nT
Magnetic Model =	IGRF-2010g11	Magnetic Vector Z = 42487 nT
Spud Date =	Mar 15, 2012	Magnetic Vector H = 24007 nT

Signed: _____

Date: _____

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FEB 08 2012

Corkhead Field Office
Corkhead, NM