Form 3160-5
(August 2007)

LOC

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.

SUBMIT IN TRIPLICATE - Other instructions on reverse side.

5 Lease Serial No.
NMNM05470C ✓

6. If Indian, Allottee or Tribe Name

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

1. Type of Well
☒ Oil Well ☐ Gas Well ☐ Other

8 Well Name and No.
CAPELLA 14 FEDERAL COM 1H ✓

2 Name of Operator ✓
DEVON ENERGY PRODUCTION CO LP

Contact: MELANIE A CRAWFORD
EMail: MELANIE.CRAWFORD@DVN.COM

9 API Well No.
30-015-39416 ✓

3a. Address
20 NORTH BROADWAY
OKLAHOMA CITY, OK 73102

3b. Phone No (include area code)
Ph: 405-552-4524

10. Field and Pool, or Exploratory
LUSK; BS; WEST

4 Location of Well *(Footage, Sec , T , R., M , or Survey Description)*
Sec 14 T19S R31E 330FSL 940FEL

11. County or Parish, and State
EDDY COUNTY 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	
	☐ Convert to Injection	☐ Plug Back	☐ Water Disposal	

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 recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

Devon respectfully request to make a change to the bottom hole location of the ~~Capeall~~ Capella 14 Federal Com 1H due to collision avoidance of the Chaparral 14 and Simon A-2 wells. The proposed bottom hole location will change to 330' FSL & 340' FEL of Section 14.

Attached is the update proposed directional plan.

Thank you.

Submit signed C-102 to NMOCD

Accepted for record
NMOCD 5/8/2012

RECEIVED
MAY 07 2012
NMOCD ARTESIA

14 I hereby certify that the foregoing is true and correct
Electronic Submission #136105 verified by the BLM Well Information System
For DEVON ENERGY PRODUCTION CO LP, sent to the Carlsbad

Name *(Printed/Typed)* MELANIE A CRAWFORD — Title REGULATORY ANALYST

Signature (Electronic Submission) — Date 04/23/2012

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By — Title — Date

APPROVED
MAY 2 2012
/s/ Chris Walls
BUREAU OF LAND MANAGEMENT
CARLSBAD FIELD OFFICE

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

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 ****

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

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

Property Code	[5] Property Name	[6] Well Number
	CAPELLA "14" FEDERAL COM	1H

OGRID No.	[8] Operator Name	[9] Elevation
6137	DEVON ENERGY PRODUCTION COMPANY, L.P.	3564.6

[10] Surface Location

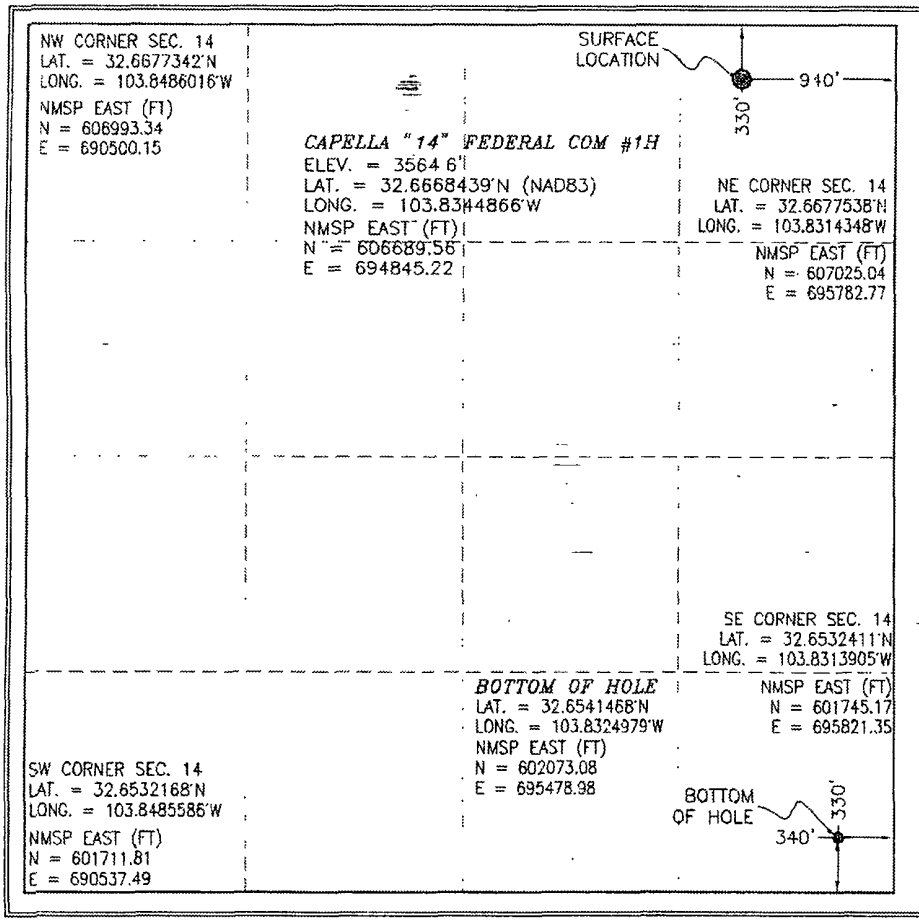
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
A	14	19 S	31 E		330	NORTH	940	EAST	EDDY

[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
P	14	19 S	31 E		330	SOUTH	340	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.



[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

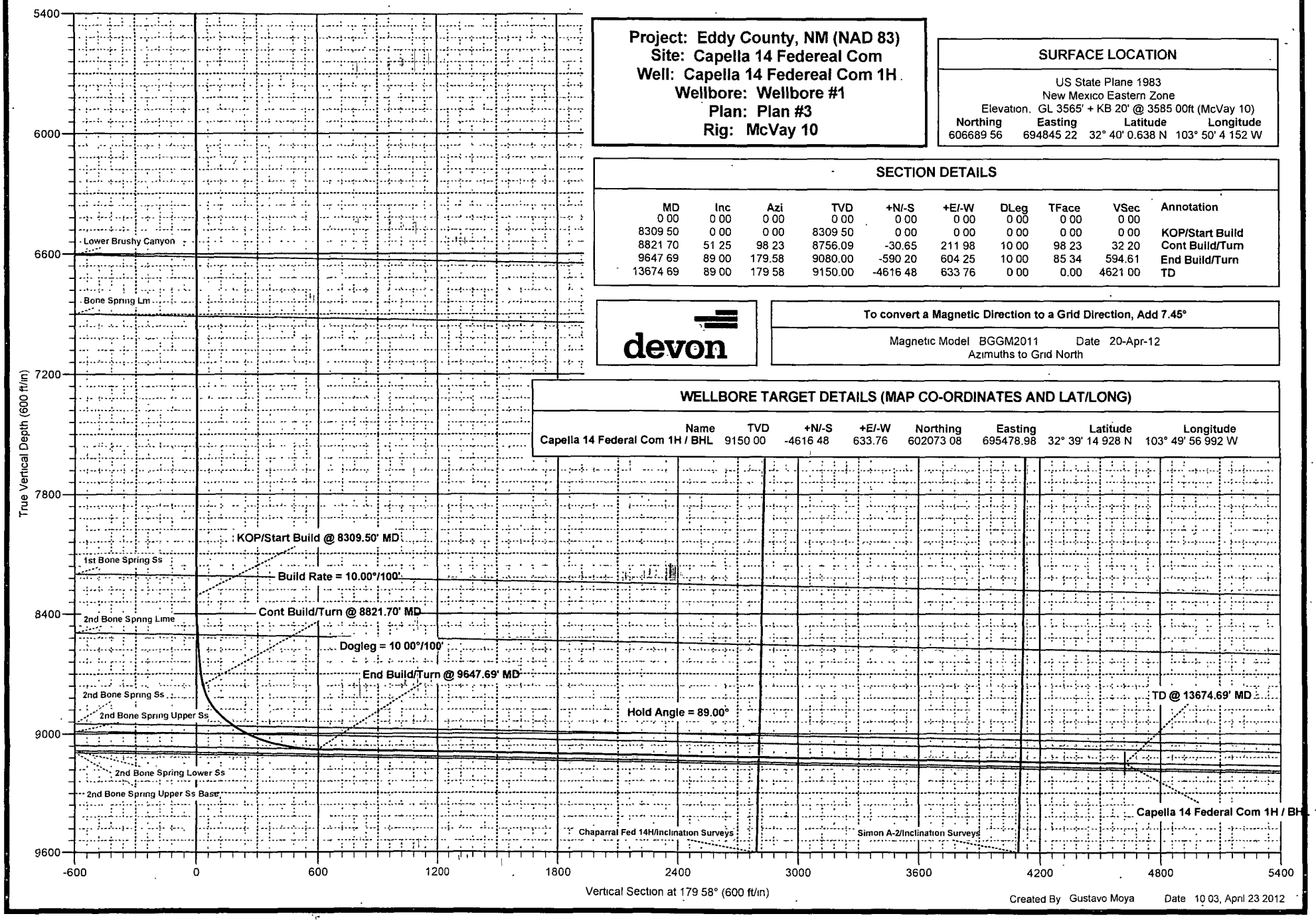
Signature and Seal of Professional Surveyor

Certificate Number JASON L. JARAMILLO PLS 12797

SURVEY NO. 483

Devon Energy Corporation

HALLIBURTON | Sperry Drilling



SURFACE LOCATION

US State Plane 1983
New Mexico Eastern Zone
Elevation GL 3565' + KB 20' @ 3585 00ft (McVay 10)

Northing	Easting	Latitude	Longitude
606689 56	694845 22	32° 40' 0.638 N	103° 50' 4 152 W

SECTION DETAILS

MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Annotation
0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	
8309 50	0 00	0 00	8309 50	0 00	0 00	0 00	0 00	0 00	KOP/Start Build
8821 70	51 25	98 23	8756.09	-30.65	211 98	10 00	98 23	32 20	Cont Build/Turn
9647 69	89 00	179.58	9080.00	-590 20	604 25	10 00	85 34	594.61	End Build/Turn
13674 69	89 00	179 58	9150.00	-4616 48	633 76	0 00	0.00	4621 00	TD

devon

To convert a Magnetic Direction to a Grid Direction, Add 7.45°

Magnetic Model BGGM2011 Date 20-Apr-12
Azimuths to Grid North

WELLBORE TARGET DETAILS (MAP CO-ORDINATES AND LAT/LONG)

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
Capella 14 Federal Com 1H / BHL	9150 00	-4616 48	633.76	602073 08	695478.98	32° 39' 14 928 N	103° 49' 56 992 W

Created By Gustavo Moya Date 10 03, April 23 2012

Devon Energy Corporation

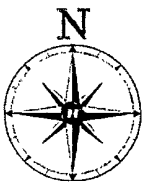
HALLIBURTON | Sperry Drilling

Project: Eddy County, NM (NAD 83)
Site: Capella 14 Federeal Com
Well: Capella 14 Federeal Com 1H
Wellbore: Wellbore #1
Plan: Plan #3
Rig: McVay 10

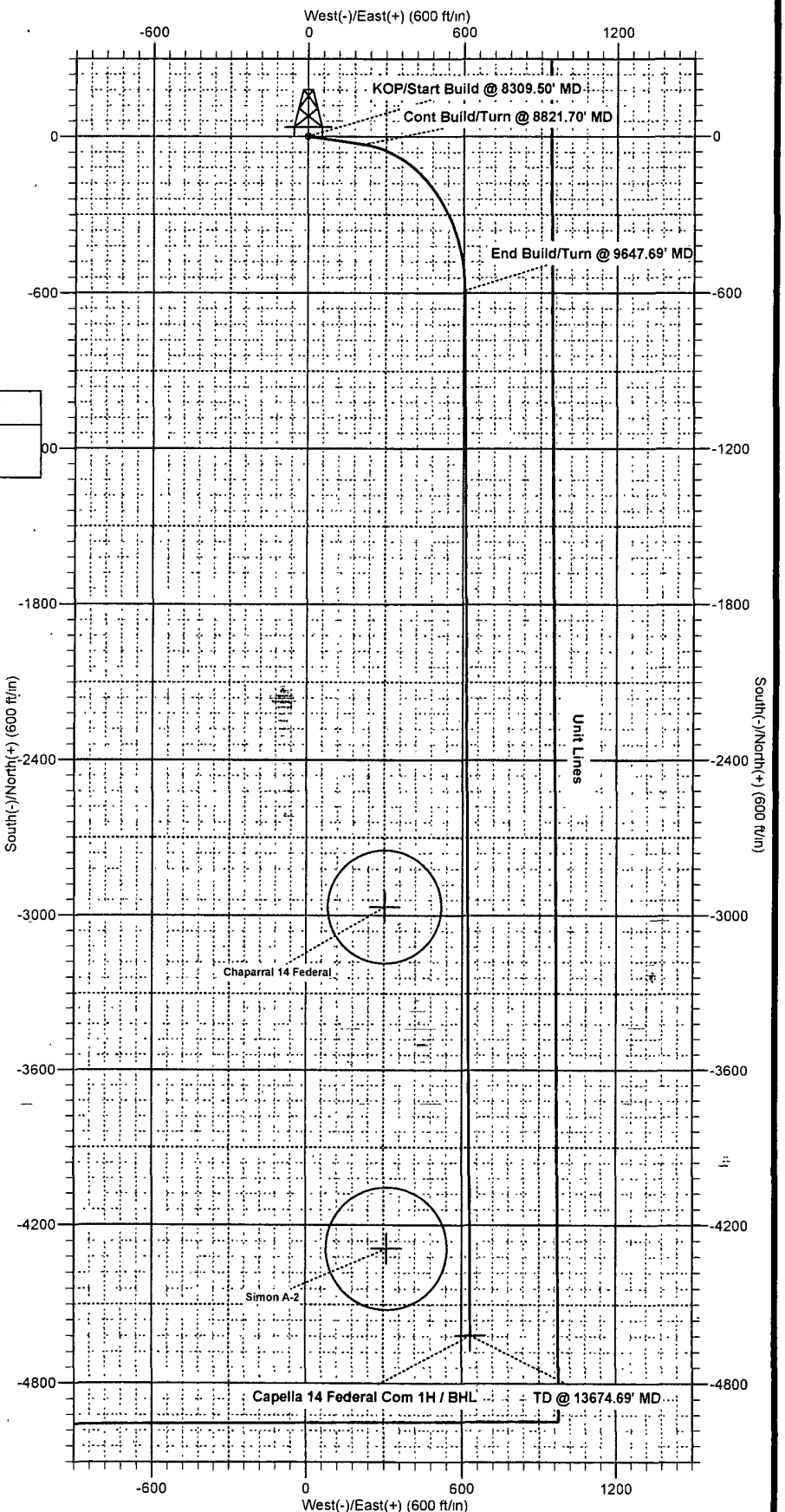
SURFACE LOCATION			
US State Plane 1983 New Mexico Eastern Zone Elevation GL 3565' + KB 20' @ 3585.00ft (McVay 10)			
Northing	**Easting**	**Latitude**	**Longitude**
606689 56	694845 22	32° 40' 0 638 N	103° 50' 4 152 W

To convert a Magnetic Direction to a Grid Direction, Add 7.45°

Magnetic Model BGGM2011 Date 20-Apr-12
Azimuths to Grid North



devon



Created By Gustavo Moya Date 10 04, April 23 2012

Devon Energy Corporation

Eddy County, NM (NAD 83)
Capella 14 Federeal Com
Capella 14 Federeal Com 1H

Wellbore #1

Plan: Plan #3

Sperry Drilling Services

Proposal Report

23 April, 2012

Well Coordinates	606,689 56 N, 694,845 22 E (32° 40' 00 64" N, 103° 50' 04 15" W)
Ground Level	3,565 00 ft
Local Coordinate Origin	Centered on Well Capella 14 Federeal Com 1H
Viewing Datum	GL 3565' + KB 20' @ 3585 00ft (McVay 10)
TVDs to System	N
North Reference	Grid
Unit System	API - US Survey Feet

Version: 2003 16 Build 431

HALLIBURTON

Plan Report for Capella 14 Federeal Com 1H - Plan #3

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	Toolface Azimuth (°)
0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0.00	0 00
100 00	0 00	0 00	100 00	0 00	0 00	0 00	0 00	0 00	0 00	0.00
200 00	0 00	0 00	200 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00
300 00	0 00	0 00	300 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00
400.00	0.00	0 00	400 00	0 00	0 00	0 00	0.00	0 00	0 00	0 00
500 00	0 00	0 00	500 00	0 00	0 00	0 00	0 00	0 00	0 00	0.00
600 00	0 00	0 00	600 00	0 00	0 00	0 00	0 00	0 00	0.00	0 00
640 00	0 00	0 00	640 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00
Rustler										
700 00	0 00	0 00	700 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00
800 00	0 00	0 00	800 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00
900.00	0 00	0 00	900 00	0 00	0 00	0 00	0.00	0 00	0 00	0 00
930 00	0.00	0 00	930 00	0 00	0 00	0 00	0 00	0.00	0 00	0 00
Salado										
1,000 00	0 00	0 00	1,000 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00
1,100 00	0 00	0 00	1,100 00	0 00	0 00	0 00	0.00	0 00	0 00	0 00
1,200 00	0 00	0.00	1,200 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00
1,300 00	0 00	0 00	1,300 00	0 00	0.00	0 00	0 00	0 00	0 00	0 00
1,400 00	0 00	0 00	1,400 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00
1,500 00	0 00	0 00	1,500.00	0 00	0 00	0 00	0 00	0 00	0 00	0 00
1,600 00	0 00	0 00	1,600 00	0 00	0 00	0 00	0 00	0.00	0 00	0 00
1,700.00	0 00	0 00	1,700 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00
1,800 00	0 00	0 00	1,800 00	0 00	0 00	0 00	0 00	0 00	0.00	0 00
1,900 00	0 00	0 00	1,900 00	0 00	0.00	0 00	0 00	0 00	0 00	0 00
2,000 00	0 00	0 00	2,000 00	0 00	0 00	0 00	0 00	0 00	0 00	0.00
2,100 00	0 00	0 00	2,100 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00
2,200 00	0.00	0 00	2,200 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00
2,240 00	0 00	0 00	2,240 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00
Base Salado										
2,300 00	0 00	0.00	2,300 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00
2,310 00	0 00	0 00	2,310 00	0 00	0 00	0 00	0 00	0.00	0 00	0.00
Tansil Dolomite										
2,400 00	0 00	0 00	2,400.00	0 00	0 00	0 00	0 00	0 00	0 00	0.00
2,430 00	0 00	0.00	2,430 00	0 00	0 00	0 00	0 00	0 00	0 00	0.00
Yates										
2,500 00	0 00	0 00	2,500 00	0 00	0 00	0.00	0 00	0 00	0.00	0 00
2,600 00	0 00	0 00	2,600 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00
2,650 00	0 00	0 00	2,650 00	0 00	0.00	0 00	0 00	0 00	0 00	0 00
Seven Rivers										
2,700 00	0 00	0 00	2,700 00	0 00	0 00	0 00	0 00	0.00	0 00	0 00
2,750 00	0.00	0 00	2,750 00	0 00	0 00	0 00	0.00	0 00	0 00	0 00
Capitan										
2,800 00	0 00	0 00	2,800 00	0 00	0 00	0 00	0.00	0 00	0 00	0 00
2,900 00	0 00	0 00	2,900 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00
3,000 00	0 00	0 00	3,000 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00
3,100 00	0 00	0 00	3,100 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00
3,200.00	0 00	0 00	3,200.00	0 00	0 00	0 00	0 00	0 00	0 00	0 00
3,300 00	0 00	0 00	3,300 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00
3,400 00	0 00	0 00	3,400 00	0.00	0 00	0.00	0 00	0 00	0 00	0 00
3,500.00	0 00	0 00	3,500 00	0 00	0 00	0 00	0.00	0 00	0 00	0 00
3,600 00	0 00	0 00	3,600 00	0 00	0 00	0 00	0 00	0.00	0 00	0 00
3,700 00	0 00	0 00	3,700 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00
3,800 00	0 00	0 00	3,800 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00
3,900 00	0 00	0.00	3,900 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00
4,000 00	0 00	0 00	4,000 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00
4,100 00	0 00	0 00	4,100 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00
4,200 00	0 00	0 00	4,200.00	0 00	0 00	0 00	0 00	0 00	0 00	0 00

Plan Report for Capella 14 Federeal Com 1H - Plan #3

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	Toolface Azimuth (°)
4,300 00	0 00	0 00	4,300 00	0 00	0 00	0 00	0 00	0 00	0 00	0.00
4,400 00	0 00	0 00	4,400 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00
4,500 00	0 00	0 00	4,500 00	0 00	0 00	0 00	0 00	0.00	0 00	0 00
4,580 00	0 00	0 00	4,580 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00
Delaware (formation top)										
4,600 00	0 00	0 00	4,600 00	0.00	0 00	0 00	0 00	0 00	0 00	0.00
4,700 00	0 00	0 00	4,700 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00
4,800 00	0 00	0 00	4,800.00	0 00	0 00	0 00	0 00	0 00	0 00	0 00
4,900 00	0 00	0 00	4,900 00	0 00	0 00	0 00	0 00	0 00	0.00	0 00
5,000 00	0.00	0 00	5,000 00	0 00	0 00	0.00	0.00	0 00	0 00	0 00
5,100 00	0 00	0 00	5,100 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00
5,140 00	0 00	0.00	5,140.00	0 00	0.00	0 00	0 00	0 00	0 00	0 00
Delaware (massive sand)										
5,200 00	0.00	0 00	5,200 00	0 00	0 00	0 00	0 00	0 00	0 00	0.00
5,300 00	0 00	0 00	5,300 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00
5,400 00	0 00	0 00	5,400 00	0.00	0 00	0.00	0 00	0 00	0 00	0 00
5,500 00	0 00	0 00	5,500 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00
5,600 00	0 00	0 00	5,600 00	0 00	0 00	0 00	0 00	0 00	0.00	0 00
5,700 00	0 00	0 00	5,700 00	0 00	0 00	0.00	0 00	0 00	0 00	0 00
5,800 00	0 00	0 00	5,800 00	0.00	0 00	0 00	0 00	0 00	0 00	0 00
5,900 00	0 00	0 00	5,900.00	0 00	0 00	0 00	0 00	0 00	0 00	0 00
6,000 00	0 00	0 00	6,000 00	0 00	0 00	0 00	0.00	0 00	0.00	0 00
6,100 00	0.00	0 00	6,100 00	0 00	0 00	0 00	0 00	0 00	0 00	0.00
6,200 00	0 00	0 00	6,200 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00
6,300 00	0 00	0 00	6,300 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00
6,400 00	0 00	0 00	6,400 00	0 00	0 00	0.00	0 00	0 00	0 00	0 00
6,500 00	0 00	0 00	6,500 00	0 00	0 00	0 00	0 00	0 00	0.00	0 00
6,600.00	0 00	0 00	6,600 00	0 00	0 00	0 00	0.00	0.00	0 00	0 00
6,615 00	0 00	0 00	6,615 00	0 00	0 00	0 00	0 00	0.00	0 00	0 00
Lower Brushy Canyon										
6,700 00	0 00	0 00	6,700 00	0 00	0 00	0.00	0 00	0 00	0 00	0.00
6,800 00	0 00	0 00	6,800.00	0 00	0 00	0 00	0 00	0 00	0 00	0 00
6,900 00	0 00	0 00	6,900 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00
6,910 00	0 00	0 00	6,910 00	0 00	0 00	0.00	0 00	0 00	0 00	0 00
Bone Spring Lm										
7,000 00	0 00	0 00	7,000.00	0 00	0 00	0 00	0 00	0 00	0 00	0 00
7,100 00	0 00	0 00	7,100 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00
7,200 00	0 00	0 00	7,200 00	0 00	0 00	0 00	0.00	0 00	0 00	0 00
7,300 00	0 00	0 00	7,300 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00
7,400.00	0 00	0 00	7,400 00	0 00	0 00	0 00	0.00	0 00	0 00	0 00
7,500 00	0 00	0 00	7,500 00	0.00	0 00	0 00	0.00	0 00	0.00	0.00
7,600 00	0 00	0 00	7,600 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00
7,700 00	0 00	0 00	7,700 00	0.00	0 00	0 00	0.00	0 00	0 00	0 00
7,800 00	0 00	0 00	7,800 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00
7,900.00	0 00	0 00	7,900 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00
8,000 00	0 00	0 00	8,000 00	0 00	0.00	0.00	0.00	0 00	0 00	0 00
8,100.00	0 00	0.00	8,100 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00
8,200 00	0 00	0 00	8,200 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00
8,210 00	0 00	0.00	8,210 00	0.00	0 00	0 00	0.00	0 00	0 00	0.00
1st Bone Spring SS										
8,309 50	0 00	0 00	8,309 50	0 00	0.00	0 00	0 00	0 00	0 00	0 00
KOP/Start Build @ 8309.50' MD - Build Rate = 10.00°/100'										
8,350.00	4.05	98 23	8,349 97	-0 20	1 42	0 22	10 00	10 00	0 00	98.23
8,400 00	9 05	98 23	8,399 62	-1 02	7 06	1.07	10.00	10 00	0 00	0 00
8,450.00	14 06	98 23	8,448 59	-2 45	16.97	2 58	10.00	10 00	0.00	0.00
8,500.00	19 06	98 23	8,496.51	-4 49	31 07	4 72	10 00	10 00	0 00	0 00
8,509 11	19 97	98 23	8,505 09	-4 93	34 08	5 18	10 00	10 00	0 00	0 00
2nd Bone Spring Lime										
8,550.00	24 06	98 23	8,542 99	-7 12	49 25	7.48	10 00	10 00	0 00	0 00

Plan Report for Capella 14 Federeal Com 1H - Plan #3

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	Toolface Azimuth (°)
8,600 00	29 06	98 23	8,587 70	-10 32	71 37	10 84	10 00	10 00	0 00	0 00
8,650 00	34 07	98 23	8,630 29	-14 06	97 27	14 78	10 00	10 00	0 00	0 00
8,700 00	39 07	98 23	8,670 43	-18 32	126.74	19 25	10 00	10 00	0 00	0 00
8,750 00	44 07	98 23	8,707 83	-23 07	159 57	24 24	10 00	10 00	0 00	0.00
8,800 00	49 07	98 23	8,742 19	-28 26	195 49	29 70	10 00	10 00	0 00	0 00
8,821 70	51 25	98 23	8,756 09	-30 65	211 98	32 20	10 00	10 00	0 00	0 00
Cont Build/Turn @ 8821 70 MD - Dogleg = 10 00°/100										
8,850 00	51 53	101 83	8,773 75	-34 50	233 75	36 21	10 01	1 01	12 74	85 34
8,900 00	52 30	108.11	8,804 61	-44 67	271 74	46 66	10 00	1 54	12 56	83 09
8,950 00	53 40	114 24	8,834 83	-59 07	308 86	61 33	10 00	2 19	12 25	79 21
9,000 00	54 80	120.17	8,864 17	-77 58	344.84	80 11	10 00	2 80	11 86	75 51
9,050 00	56 47	125 88	8,892 40	-100 08	379 41	102 86	10 00	3 36	11 42	72 03
9,100 00	58 40	131 36	8,919 33	-126 38	412 30	129 40	10 00	3 86	10 95	68 81
9,150 00	60 56	136 60	8,944 73	-156 29	443 26	159 53	10 00	4 31	10 49	65 86
9,188 71	62 36	140 50	8,963 23	-181 78	465 76	185 19	10 00	4 66	10 08	63 19
2nd Bone Spring Ss										
9,200 00	62 91	141 61	8,968 42	-189 57	472 06	193 03	10 00	4 84	9 86	61 33
9,250 00	65 43	146 42	8,990 22	-225 98	498 47	229 63	10 00	5 04	9 60	60 82
9,285 61	67 31	149 72	9,004.49	-253 67	515 72	257 44	10 00	5 29	9 27	58 72
2nd Bone Spring Upper Ss										
9,300 00	68 09	151 02	9,009 95	-265 24	522 30	269 06	10 00	5 43	9 08	57 40
9,350 00	70 88	155 46	9,027 48	-307 05	543 36	311 02	10 00	5 58	8 87	56 90
9,400 00	73 78	159 74	9,042 66	-351 08	561 50	355 19	10 00	5 78	8 57	55 35
9,450 00	76 75	163 90	9,055 38	-397 01	576 57	401.23	10 00	5 95	8 32	54 05
9,500 00	79 79	167 96	9,065 55	-444 48	588 45	448 78	10 00	6 08	8 11	52 99
9,550 00	82 88	171 94	9,073 08	-493 14	597 07	497 50	10 00	6 18	7 96	52 16
9,600 00	86 01	175 86	9,077 92	-542 61	602 35	547 01	10 00	6 25	7 85	51 56
9,618 33	87 16	177 29	9,079 02	-560 87	603 45	565 28	10 00	6 28	7 80	51 18
Target Line										
9,647 69	89 00	179 58	9,080 00	-590 20	604 25	594 61	10 00	6 29	7 78	51 10
End Build/Turn @ 9647 69 MD - Hold Angle = 89 00°										
9,700 00	89 00	179 58	9,080 91	-642 50	604 63	646 92	0 00	0 00	0 00	0 00
9,800 00	89 00	179 58	9,082 65	-742 48	605 36	746 90	0 00	0 00	0 00	0 00
9,900 00	89 00	179 58	9,084 39	-842 47	606 09	846 89	0 00	0 00	0 00	0 00
10,000 00	89 00	179 58	9,086 12	-942 45	606 83	946 87	0 00	0 00	0 00	0 00
10,100 00	89 00	179 58	9,087 86	-1,042 43	607 56	1,046 86	0 00	0 00	0 00	0 00
10,200 00	89 00	179 58	9,089 60	-1,142 41	608 29	1,146 84	0 00	0 00	0 00	0 00
10,300 00	89 00	179 58	9,091 34	-1,242 39	609 03	1,246 83	0 00	0 00	0 00	0 00
10,400 00	89 00	179 58	9,093 08	-1,342 38	609 76	1,346 81	0 00	0 00	0 00	0 00
10,500 00	89 00	179 58	9,094 82	-1,442 36	610 49	1,446 80	0 00	0 00	0 00	0 00
10,600 00	89 00	179 58	9,096 55	-1,542 34	611 22	1,546 78	0 00	0 00	0 00	0 00
10,700 00	89 00	179 58	9,098 29	-1,642 32	611 96	1,646 77	0 00	0 00	0 00	0 00
10,800 00	89 00	179 58	9,100 03	-1,742 31	612 69	1,746 75	0 00	0 00	0 00	0 00
10,900 00	89.00	179 58	9,101 77	-1,842 29	613 42	1,846 74	0 00	0 00	0 00	0 00
11,000 00	89 00	179 58	9,103 51	-1,942 27	614 16	1,946 72	0 00	0 00	0 00	0 00
11,100 00	89 00	179 58	9,105 25	-2,042 25	614 89	2,046 70	0 00	0 00	0 00	0 00
11,200 00	89 00	179 58	9,106 98	-2,142 23	615 62	2,146 69	0.00	0 00	0 00	0 00
11,300 00	89 00	179 58	9,108 72	-2,242 22	616 36	2,246 67	0 00	0 00	0 00	0 00
11,400 00	89 00	179 58	9,110.46	-2,342.20	617 09	2,346 66	0 00	0 00	0 00	0 00
11,500 00	89 00	179 58	9,112 20	-2,442 18	617 82	2,446 64	0 00	0 00	0 00	0 00
11,600 00	89 00	179 58	9,113.94	-2,542 16	618 55	2,546 63	0 00	0 00	0 00	0 00
11,700 00	89 00	179 58	9,115 67	-2,642 15	619 29	2,646 61	0 00	0 00	0.00	0 00
11,800 00	89 00	179.58	9,117 41	-2,742 13	620 02	2,746.60	0 00	0 00	0 00	0 00
11,900 00	89 00	179 58	9,119 15	-2,842 11	620 75	2,846 58	0 00	0 00	0 00	0 00
12,000 00	89 00	179.58	9,120 89	-2,942 09	621 49	2,946 57	0 00	0 00	0 00	0 00
12,100 00	89 00	179 58	9,122 63	-3,042 07	622 22	3,046 55	0 00	0 00	0 00	0 00
12,200 00	89 00	179 58	9,124 37	-3,142 06	622.95	3,146 54	0 00	0 00	0 00	0 00
12,300 00	89 00	179 58	9,126 10	-3,242 04	623 68	3,246 52	0 00	0 00	0 00	0 00
12,400 00	89.00	179 58	9,127 84	-3,342 02	624 42	3,346 51	0 00	0 00	0 00	0 00

Plan Report for Capella 14 Federeal Com 1H - Plan #3

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	Toolface Azimuth (°)
12,500 00	89 00	179 58	9,129 58	-3,442 00	625 15	3,446 49	0 00	0 00	0 00	0 00
12,600 00	89 00	179 58	9,131 32	-3,541 99	625 88	3,546 48	0 00	0 00	0 00	0 00
12,700 00	89 00	179 58	9,133 06	-3,641 97	626 62	3,646 46	0 00	0 00	0 00	0 00
12,800 00	89 00	179 58	9,134 80	-3,741 95	627 35	3,746 45	0 00	0 00	0 00	0 00
12,900 00	89 00	179 58	9,136 53	-3,841 93	628 08	3,846 43	0 00	0 00	0 00	0 00
13,000 00	89 00	179 58	9,138 27	-3,941 91	628 82	3,946 42	0 00	0 00	0 00	0 00
13,100 00	89 00	179 58	9,140 01	-4,041 90	629 55	4,046 40	0 00	0 00	0 00	0 00
13,200 00	89 00	179 58	9,141 75	-4,141 88	630 28	4,146 39	0 00	0 00	0 00	0 00
13,300 00	89 00	179 58	9,143 49	-4,241 86	631 01	4,246 37	0 00	0 00	0 00	0 00
13,400 00	89 00	179 58	9,145 23	-4,341 84	631 75	4,346 36	0 00	0 00	0 00	0 00
13,500 00	89 00	179 58	9,146 96	-4,441 83	632 48	4,446 34	0 00	0 00	0 00	0 00
13,600 00	89 00	179 58	9,148 70	-4,541 81	633 21	4,546 33	0 00	0 00	0 00	0 00
13,674 69	89 00	179 58	9,150 00	-4,616 48	633 76	4,621 00	0 00	0 00	0 00	0 00
TD @ 13674 69' MD - Capella 14 Federal Com 1H / BHL										

Plan Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates +N/-S (ft)	Local Coordinates +E/-W (ft)	Comment
8,309 50	8,309 50	0 00	0 00	KOP/Start Build @ 8309 50' MD
8,309 50	8,309 50	0 00	0 00	Build Rate = 10 00°/100'
8,821 70	8,756 09	-30 65	211 98	Cont Build/Turn @ 8821 70' MD
8,821 70	8,756 09	-30 65	211 98	Dogleg = 10 00°/100'
9,647 69	9,080 00	-590 20	604 25	End Build/Turn @ 9647 69' MD
9,647 69	9,080 00	-590 20	604 25	Hold Angle = 89.00°
13,674 69	9,150 00	-4,616 48	633 76	TD @ 13674 69' MD

Vertical Section Information

Angle Type	Target	Azimuth (°)	Origin Type	Origin +N/_S (ft)	Origin +E/-W (ft)	Start TVD (ft)
User	No Target (Freehand)	179 58	Slot	0 00	0 00	0 00

Survey tool program

From (ft)	To (ft)	Survey/Plan	Survey Tool
0 00	13,674 69	Plan #3	MWD

Plan Report for Capella 14 Federeal Com 1H - Plan #3

Formation Details

Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
	9,105 00	2nd Bone Spring Upper Ss Base		1 00	179 58
	9,095 00	2nd Bone Spring Lower Ss		1 00	179 58
640 00	640.00	Rustler		1 00	179 58
930 00	930 00	Salado		1 00	179 58
2,240 00	2,240 00	Base Salado		1 00	179 58
2,310.00	2,310 00	Tansil Dolomite		1 00	179 58
2,430 00	2,430 00	Yates		1 00	179 58
2,650 00	2,650 00	Seven Rivers		1 00	179 58
2,750 00	2,750 00	Capitan		1 00	179 58
4,580 00	4,580 00	Delaware (formation top)		1 00	179 58
5,140 00	5,140 00	Delaware (massive sand)		1 00	179 58
6,615 00	6,615 00	Lower Brushy Canyon		1 00	179 58
6,910 00	6,910 00	Bone Spring Lm		1 00	179 58
8,210 00	8,210 00	1st Bone Spring Ss		1 00	179 58
8,509 11	8,505 00	2nd Bone Spring Lime		1 00	179 58
9,188 71	8,960 00	2nd Bone Spring Ss		1 00	179 58
9,285 61	9,000 00	2nd Bone Spring Upper Ss		1 00	179 58
9,618 33	9,069 15	Target Line		1 00	179 58

Targets associated with this wellbore

Target Name	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Shape
Capella 14 Federal Com 1H / BHL	9,150 00	-4,616 48	633 76	Point

North Reference Sheet for Capella 14 Federeal Com - Capella 14 Federeal Com 1H - Wellbore #1

All data is in US Feet unless otherwise stated Directions and Coordinates are relative to Grid North Reference
Vertical Depths are relative to GL 3565' + KB 20' @ 3585 00ft (McVay 10) Northing and Easting are relative to Capella 14 Federeal Com 1H
Coordinate System is US State Plane 1983, New Mexico Eastern Zone using datum North American Datum 1983, ellipsoid GRS 1980

Projection method is Transverse Mercator (Gauss-Kruger)
Central Meridian is -104 33°, Longitude Origin 0° 0' 0 000 E°, Latitude Origin 0° 0' 0 000 N°
False Easting 541,337 50ft, False Northing 0 00ft, Scale Reduction. 0 99993607

Grid Coordinates of Well 606,689 56 ft N, 694,845 22 ft E
Geographical Coordinates of Well 32° 40' 00 64" N, 103° 50' 04 15" W
Grid Convergence at Surface is: 0 27°

Based upon Minimum Curvature type calculations, at a Measured Depth of 13,674 69ft
the Bottom Hole Displacement is 4,659 78ft in the Direction of 172 18° (Grid)

Magnetic Convergence at surface is: -7 45° (20 April 2012, , BGGM2011)