

DISTRICT I
1685 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 and Natural Resources Department

OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, New Mexico 87505

Form C-102
Revised October 12, 2005

Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-025-39364	Pool Code 53805	Pool Name Mesa Verde, Delaware Sand Dunes Bone Springs South
Property Code	Property Name FALCON "32" STATE	Well Number 5H
OGRID No. 6137	Operator Name DEVON ENERGY PRODUCTION COMPANY LP	Elevation 3607'

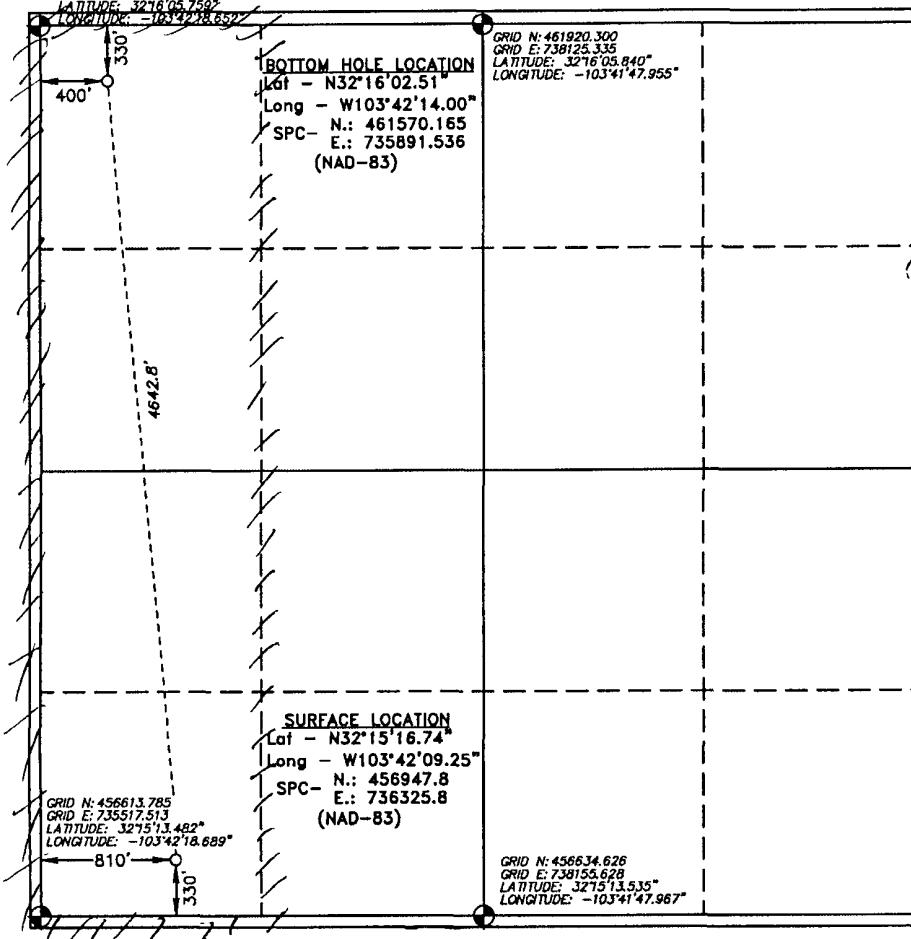
Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
M	32	23 S	32 E		330	SOUTH	810	WEST	LEA

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
D	32	23 S	32 E		330	NORTH	400	WEST	LEA
Dedicated Acres 160	Joint or Infill	Consolidation Code	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



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 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 2/16/09

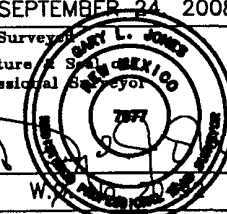
Norvella Adams
Printed Name

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.

SEPTEMBER 24, 2008

Date Surveyed
Signature of Surveyor
Professional Surveyor


W. J. ANDERSON

Certificate No. Gary L. Jones 7977

Basin Surveys

FALCON 32 STATE 5H – DRILLING PLAN SUNDRY

12/21/09

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>
17-1/2"	0 – 1,050	13-3/8"	0 – 1,050	48#	STC	H-40
12-1/4"	1,050 – 3,000	9-5/8"	0 – 3,000	36#	LTC	J-55
12-1/4"	3,000 – 4,600	9-5/8"	3,000 – 4,600	40#	LTC	J-55
8-1/2"	4,600 – 7,700	5-1/2"	0 – 7,700	17#	LTC	N-80
8-1/2"	7,700 – 12,726	5-1/2"	7,700 – 12,726	17#	BTC	N-80

Mud Program:

<u>Depth</u>	<u>Mud Wt.</u>	<u>Visc.</u>	<u>Fluid Loss</u>	<u>Type System</u>
0 – 1,050	8.4 – 9.0	30 – 34	N/C	FW
1,050 – 4,600	9.8 – 10.0	28 – 32	N/C	FW/Brine
4,600 – 12,726	8.6 – 9.0	28 – 32	NC -12	FW

HORIZONTAL

Pressure Control Equipment:

The BOP system used to drill the intermediate hole will consist of a 13-5/8" 5M Double Ram and Annular preventer. The BOP system will be tested as per BLM Onshore Oil and Gas Order No. 2 as a 3M system prior to drilling out the surface casing shoe.

The BOP system used to drill the production hole will consist of a 13-5/8" 5M Double Ram and Annular preventer. The BOP system will be tested as per BLM Onshore Oil and Gas Order No. 2 as a 5M system prior to drilling out the intermediate casing shoe.

The pipe rams will be operated and checked each 24 hour period and each time the drill pipe is out of the hole. These tests will be logged in the daily driller's log. A 2" kill line and 3" choke line will be incorporated into the drilling spool below the ram BOP. In addition to the rams and annular preventer, additional BOP accessories include a kelly cock, floor safety valve, choke lines, and choke manifold rated at 5,000 psi WP.

Cementing Program

13-3/8" Surface

Lead: 830 sacks Class C Cement + 2% bwow Sodium Chloride + 0.125 lbs/sack Cello Flake + 4% bwoc Bentonite + 81.4% Fresh Water, 13.5 ppg

Yield: 1.75 cf/sk

TOC @ surface

Tail: 250 sacks Class C Cement + 2% bwoc Calcium Chloride + 0.125 lbs/sack Cello Flake + 56.3% Fresh Water, 14.8 ppg

Yield: 1.35 cf/sk

9-5/8" Intermediate

Lead: 1,250 sacks (35:65) Poz (Fly Ash) Class C Cement + 5% bwow Sodium Chloride + 0.125 lbs/sack Cello Flake + 6% bwoc Bentonite + 107.8% Fresh Water, 12.5 ppg

Yield: 2.04 cf/sk

TOC @ surface

Tail: 300 sacks 60.40 Poz + 5% bwow Sodium Chloride + 0.125 lbs/sack Cello Flake + 0.4% bwoc Sodium Metasilicate + 4% bwoc MPA-5 + 64.7% Water, 13.8 ppg

Yield: 1.37 cf/sk

5-1/2" Production

1st Stage

Lead: 1,380 sacks (50:50) 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 + 58.3% Fresh Water, 14.2 ppg

Yield: 1.31 cf/sk

DV TOOL at ~7,500 ft

2nd Stage

Lead: 510 sacks (35:65) Poz (Fly Ash):Class C Cement + 1% bwow Sodium Chloride + 0.125 lbs/sack Cello Flake + 6% bwoc Bentonite + 0.4% bwoc FL-52A + 103.2% Fresh Water, 12.5 ppg

Yield: 1.96 cf/sk

TOC @ surface

Tail: 345 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

Yield: 1.34 cf/sk

TOC for All Strings:

Surface:	0'
Intermediate:	0'
Production:	4,100'

RECEIVED

DEC 28 2009

HOBBSOCD



Weatherford®

Drilling Services

Proposal



devon

FALCON 32 STATE #5H

LEA COUNTY, NM

WELL FILE: **PLAN1**

DECEMBER 21, 2009

Weatherford International, Ltd.

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www.weatherford.com

devon

FALCON 32 STATE #5H
LEA CO., NEW MEXICO

Rig H&P 214

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	0.00	0.00	357.84	0.00	0.00	0.00	0.00	0.00	0.00	
2	7771.04	0.00	357.84	7771.04	0.00	0.00	0.00	0.00	0.00	
3	8671.04	90.00	357.84	8344.00	572.55	-21.59	10.00	357.84	572.96	
4	12726.15	90.00	357.84	8344.00	4624.78	-174.43	0.00	0.00	4628.07	Pbhl

WELL DETAILS

Name	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
Falcon 32 State #5H	0.00	0.00	456947.80	736325.80	32°15'16.732N	103°42'09.271W	N/A

TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Shape
Pbhl	8344.00	4624.78	-174.43	461572.58	736151.37	Point

FIELD DETAILS

Lea County, New Mexico (NAD 83)

Geodetic System: US State Plane Coordinate System 1983
Ellipsoid: GRS 1980
Zone: New Mexico, Eastern Zone
Magnetic Model: igrf200510

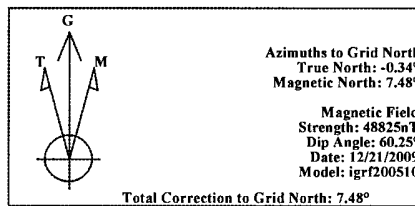
System Datum: Mean Sea Level
Local North: Grid North

SITE DETAILS

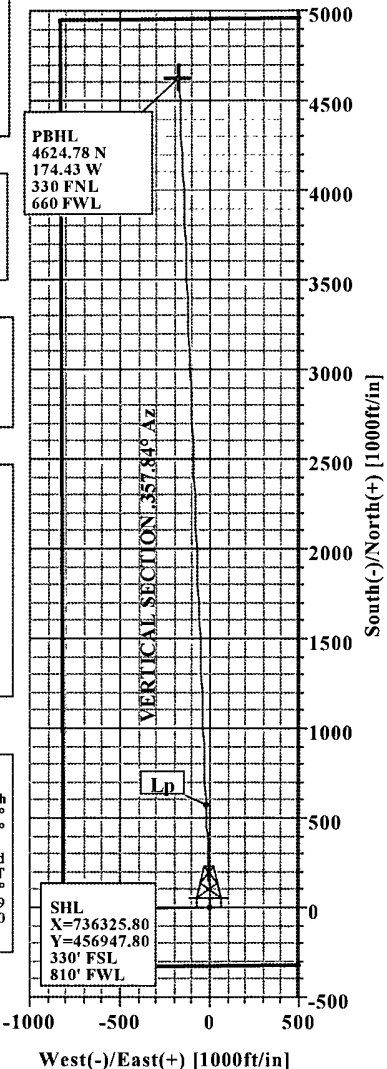
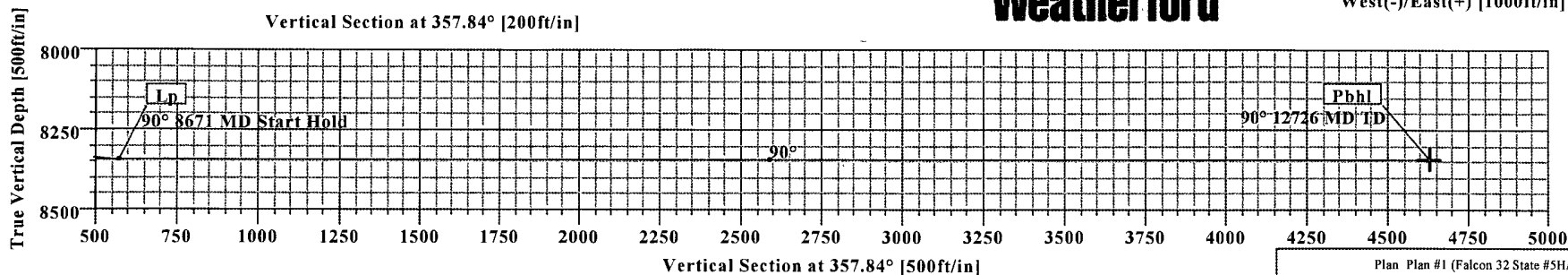
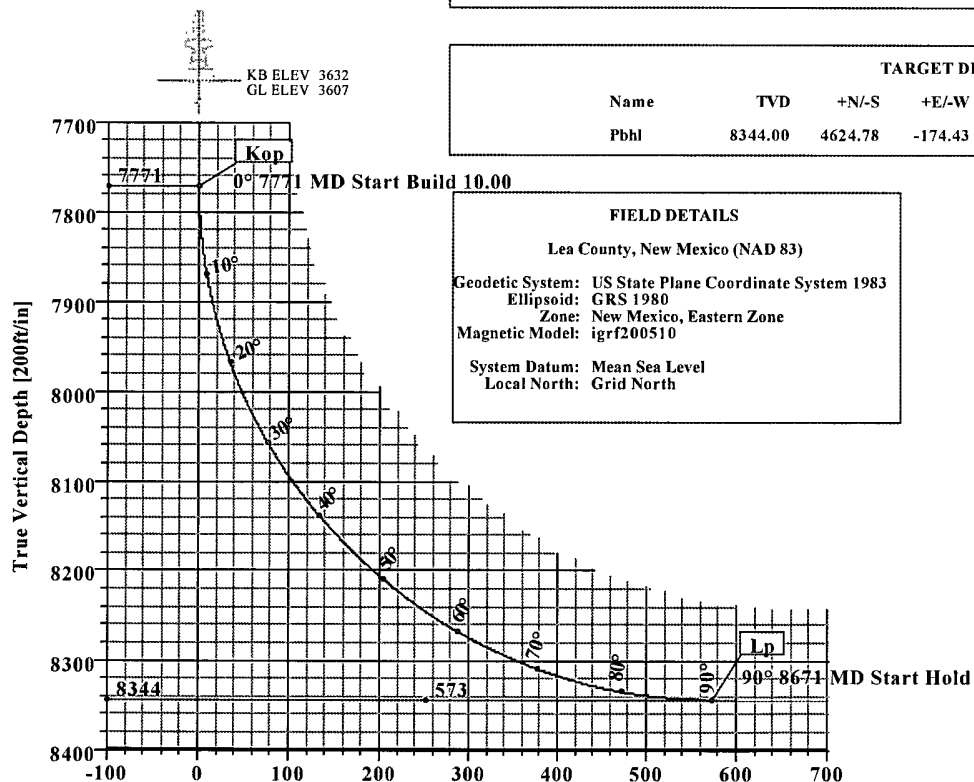
Falcon 32 State #5H

Site Centre Northing: 456947.80
Easting: 736325.80

Ground Level: 3607.00
Positional Uncertainty: 0.00
Convergence: 0.34



Weatherford



Plan Plan #1 (Falcon 32 State #5H/1)

Created By Russell W Joyner

Date 12/21/2009



Weatherford International Ltd.

WFT Plan Report



Company: Devon Energy		Date: 12/21/2009	Time: 10:37:06	Page: 1
Field: Lea County, New Mexico (NAD 83)		Co-ordinate(NE) Reference: Well: Falcon 32 State #5H, Grid North		
Site: Falcon 32 State #5H		Vertical (TVD) Reference: SITE 3632.0		
Well: Falcon 32 State #5H		Section (VS) Reference: Well: (0.00N,0.00E,357.84Azi)		
Wellpath: 1		Survey Calculation Method: Minimum Curvature		Db: Sybase

Plan: Plan #1	Date Composed: 12/21/2009
Principal: Yes	Version: 1
	Tied-to: From Surface

Field: Lea County, New Mexico (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: igrf200510

Site: Falcon 32 State #5H		
Site Position:	Northing: 456947.80 ft	Latitude: 32 15 16.732 N
From: Map	Easting: 736325.80 ft	Longitude: 103 42 9.271 W
Position Uncertainty: 0.00 ft		North Reference: Grid
Ground Level: 3607.00 ft		Grid Convergence: 0.34 deg

Well: Falcon 32 State #5H		Slot Name:	
Well Position:	+N/-S 0.00 ft Northing: 456947.80 ft	Latitude: 32 15 16.732 N	
	+E/-W 0.00 ft Easting : 736325.80 ft	Longitude: 103 42 9.271 W	
Position Uncertainty: 0.00 ft			

Wellpath: 1		Drilled From: Surface	
Current Datum: SITE	Height 3632.00 ft	Tie-on Depth: 0.00 ft	
Magnetic Data: 12/21/2009		Above System Datum: Mean Sea Level	
Field Strength: 48825 nT		Declination: 7.82 deg	
Vertical Section: Depth From (TVD)	+N/-S ft	Mag Dip Angle: 60.25 deg	
		+E/-W ft	Direction deg
	8344.00	0.00	357.84

Plan Section Information											
MD	Incl	Azim	TVD	+N/-S	+E/-W	DLS	Build	Turn	TFO	Target	
ft	deg	deg	ft	ft	ft	deg/100ft	deg/100ft	deg/100ft	deg		
0.00	0.00	357.84	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
7771.04	0.00	357.84	7771.04	0.00	0.00	0.00	0.00	0.00	0.00		
8671.04	90.00	357.84	8344.00	572.55	-21.59	10.00	10.00	0.00	357.84		
12726.15	90.00	357.84	8344.00	4624.78	-174.43	0.00	0.00	0.00	0.00	Pbhl	

Survey										
MD	Incl	Azim	TVD	N/S	E/W	VS	DLS	Build	Turn	Comment
ft	deg	deg	ft	ft	ft	ft	deg/100ft	deg/100ft	deg/100ft	
7700.00	0.00	357.84	7700.00	0.00	0.00	0.00	0.00	0.00	0.00	
7771.04	0.00	357.84	7771.04	0.00	0.00	0.00	0.00	0.00	0.00	Kop
7800.00	2.90	357.84	7799.99	0.73	-0.03	0.73	10.00	10.00	0.00	
7850.00	7.90	357.84	7849.75	5.43	-0.20	5.43	10.00	10.00	0.00	
7900.00	12.90	357.84	7898.91	14.44	-0.54	14.45	10.00	10.00	0.00	
7950.00	17.90	357.84	7947.10	27.70	-1.04	27.72	10.00	10.00	0.00	
8000.00	22.90	357.84	7993.95	45.11	-1.70	45.14	10.00	10.00	0.00	
8050.00	27.90	357.84	8039.11	66.53	-2.51	66.58	10.00	10.00	0.00	
8100.00	32.90	357.84	8082.22	91.80	-3.46	91.87	10.00	10.00	0.00	
8150.00	37.90	357.84	8122.97	120.73	-4.55	120.82	10.00	10.00	0.00	
8200.00	42.90	357.84	8161.04	153.10	-5.77	153.21	10.00	10.00	0.00	
8250.00	47.90	357.84	8196.13	188.67	-7.12	188.80	10.00	10.00	0.00	
8300.00	52.90	357.84	8228.00	227.15	-8.57	227.31	10.00	10.00	0.00	
8350.00	57.90	357.84	8256.38	268.26	-10.12	268.45	10.00	10.00	0.00	
8400.00	62.90	357.84	8281.08	311.69	-11.76	311.91	10.00	10.00	0.00	
8450.00	67.90	357.84	8301.89	357.10	-13.47	357.36	10.00	10.00	0.00	
8500.00	72.90	357.84	8318.66	404.16	-15.24	404.44	10.00	10.00	0.00	



Weatherford International Ltd.

WFT Plan Report



Company: Devon Energy Date: 12/21/2009 Time: 10:37:06 Page: 2
Field: Lea County, New Mexico (NAD 83) Co-ordinate(NE) Reference: Well: Falcon 32 State #5H, Grid North
Site: Falcon 32 State #5H Vertical (TVD) Reference: SITE 3632.0
Well: Falcon 32 State #5H Section (VS) Reference: Well (0.00N;0.00E;357.84Azi)
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	Build deg/100ft	Turn deg/100ft	Comment
8550.00	77.90	357.84	8331.26	452.49	-17.07	452.81	10.00	10.00	0.00	
8600.00	82.90	357.84	8339.60	501.74	-18.92	502.10	10.00	10.00	0.00	
8650.00	87.90	357.84	8343.61	551.53	-20.80	551.92	10.00	10.00	0.00	
8671.04	90.00	357.84	8344.00	572.55	-21.59	572.96	10.00	10.00	0.00	Lp
8700.00	90.00	357.84	8344.00	601.49	-22.69	601.92	0.00	0.00	0.00	
8800.00	90.00	357.84	8344.00	701.42	-26.45	701.92	0.00	0.00	0.00	
8900.00	90.00	357.84	8344.00	801.35	-30.22	801.92	0.00	0.00	0.00	
9000.00	90.00	357.84	8344.00	901.27	-33.99	901.92	0.00	0.00	0.00	
9100.00	90.00	357.84	8344.00	1001.20	-37.76	1001.92	0.00	0.00	0.00	
9200.00	90.00	357.84	8344.00	1101.13	-41.53	1101.92	0.00	0.00	0.00	
9300.00	90.00	357.84	8344.00	1201.06	-45.30	1201.92	0.00	0.00	0.00	
9400.00	90.00	357.84	8344.00	1300.99	-49.07	1301.92	0.00	0.00	0.00	
9500.00	90.00	357.84	8344.00	1400.92	-52.84	1401.92	0.00	0.00	0.00	
9600.00	90.00	357.84	8344.00	1500.85	-56.61	1501.92	0.00	0.00	0.00	
9700.00	90.00	357.84	8344.00	1600.78	-60.38	1601.92	0.00	0.00	0.00	
9800.00	90.00	357.84	8344.00	1700.71	-64.14	1701.92	0.00	0.00	0.00	
9900.00	90.00	357.84	8344.00	1800.64	-67.91	1801.92	0.00	0.00	0.00	
10000.00	90.00	357.84	8344.00	1900.56	-71.68	1901.92	0.00	0.00	0.00	
10100.00	90.00	357.84	8344.00	2000.49	-75.45	2001.92	0.00	0.00	0.00	
10200.00	90.00	357.84	8344.00	2100.42	-79.22	2101.92	0.00	0.00	0.00	
10300.00	90.00	357.84	8344.00	2200.35	-82.99	2201.92	0.00	0.00	0.00	
10400.00	90.00	357.84	8344.00	2300.28	-86.76	2301.92	0.00	0.00	0.00	
10500.00	90.00	357.84	8344.00	2400.21	-90.53	2401.92	0.00	0.00	0.00	
10600.00	90.00	357.84	8344.00	2500.14	-94.30	2501.92	0.00	0.00	0.00	
10700.00	90.00	357.84	8344.00	2600.07	-98.07	2601.92	0.00	0.00	0.00	
10800.00	90.00	357.84	8344.00	2700.00	-101.83	2701.92	0.00	0.00	0.00	
10900.00	90.00	357.84	8344.00	2799.92	-105.60	2801.92	0.00	0.00	0.00	
11000.00	90.00	357.84	8344.00	2899.85	-109.37	2901.92	0.00	0.00	0.00	
11100.00	90.00	357.84	8344.00	2999.78	-113.14	3001.92	0.00	0.00	0.00	
11200.00	90.00	357.84	8344.00	3099.71	-116.91	3101.92	0.00	0.00	0.00	
11300.00	90.00	357.84	8344.00	3199.64	-120.68	3201.92	0.00	0.00	0.00	
11400.00	90.00	357.84	8344.00	3299.57	-124.45	3301.92	0.00	0.00	0.00	
11500.00	90.00	357.84	8344.00	3399.50	-128.22	3401.92	0.00	0.00	0.00	
11600.00	90.00	357.84	8344.00	3499.43	-131.99	3501.92	0.00	0.00	0.00	
11700.00	90.00	357.84	8344.00	3599.36	-135.75	3601.92	0.00	0.00	0.00	
11800.00	90.00	357.84	8344.00	3699.29	-139.52	3701.92	0.00	0.00	0.00	
11900.00	90.00	357.84	8344.00	3799.21	-143.29	3801.92	0.00	0.00	0.00	
12000.00	90.00	357.84	8344.00	3899.14	-147.06	3901.92	0.00	0.00	0.00	
12100.00	90.00	357.84	8344.00	3999.07	-150.83	4001.92	0.00	0.00	0.00	
12200.00	90.00	357.84	8344.00	4099.00	-154.60	4101.92	0.00	0.00	0.00	
12300.00	90.00	357.84	8344.00	4198.93	-158.37	4201.92	0.00	0.00	0.00	
12400.00	90.00	357.84	8344.00	4298.86	-162.14	4301.92	0.00	0.00	0.00	
12500.00	90.00	357.84	8344.00	4398.79	-165.91	4401.92	0.00	0.00	0.00	
12600.00	90.00	357.84	8344.00	4498.72	-169.68	4501.92	0.00	0.00	0.00	
12700.00	90.00	357.84	8344.00	4598.65	-173.44	4601.92	0.00	0.00	0.00	
12726.15	90.00	357.84	8344.00	4624.78	-174.43	4628.07	0.00	0.00	0.00	Pbhl



Weatherford International Ltd.

WFT Plan Report



Company: Devon Energy Date: 12/21/2009 Time: 10:37:06 Page: 3
Field: Lea County, New Mexico (NAD 83) Co-ordinate(NE) Reference: Well: Falcon 32 State #5H, Grid North
Site: Falcon 32 State #5H Vertical (TVD) Reference: SITE 3632.0
Well: Falcon 32 State #5H Section (VS) Reference: Well (0.00N,0.00E;357.84Az)
Wellpath: 1 Survey Calculation Method: Minimum Curvature Db: Sybase

Targets

Name	Description Dip. Dir.	TVD ft	+N/-S ft	+E/-W ft	Map Northing ft	Map Easting ft	<--- Latitude --->			<--- Longitude --->		
Pbhl		8344.00	4624.78	-174.43	461572.58	736151.37	32	16	2.506 N	103	42	10.986 W

Casing Points

MD	TVD	Diameter	Hole Size	Name

Formations

MD	TVD	Formations	Lithology	Dip Angle	Dip Direction

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

GeoDec v5.03

Report Date: December 21, 2009

Job Number: _____

Customer: Devon Energy

Well Name: Falcon 32 State 5H

API Number: _____

Rig Name: _____

Location: Lea County, NM

Block: _____

Engineer: R Joyner

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: North American Datum 1983

Ellipsoid: GRS 1980

Ellipsoid: GRS 1980

North/South 456947.800 USFT

Latitude 32.2546501 DEG

East/West 736325.800 USFT

Longitude -103.7025706 DEG

Grid Convergence: .34°

Total Correction: +7.48°

Geodetic Location WGS84

Elevation = 0.0 Meters

Latitude = 32.25465° N 32° 15 min 16.741 sec

Longitude = 103.70257° W 103° 42 min 9.254 sec

Magnetic Declination = 7.82° [True North Offset]

Local Gravity = .9988 g CheckSum = 6616

Local Field Strength = 48821 nT Magnetic Vector X = 24003 nT

Magnetic Dip = 60.25° Magnetic Vector Y = 3295 nT

Magnetic Model = IGRF-2005g10 Magnetic Vector Z = 42385 nT

Spud Date = Dec 21, 2009 Magnetic Vector H = 24228 nT

Signed: _____

Date: _____