

30-015-38476



Weatherford

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HOBBSOCD

Drilling Services

Proposal



JASPER 32 STATE COM #4H

EDDY COUNTY, NM

WELL FILE: **PLAN 1**

February 18, 2011

Weatherford International, Ltd.

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Jasper 32 State Com 4H
Eddy Co., NM

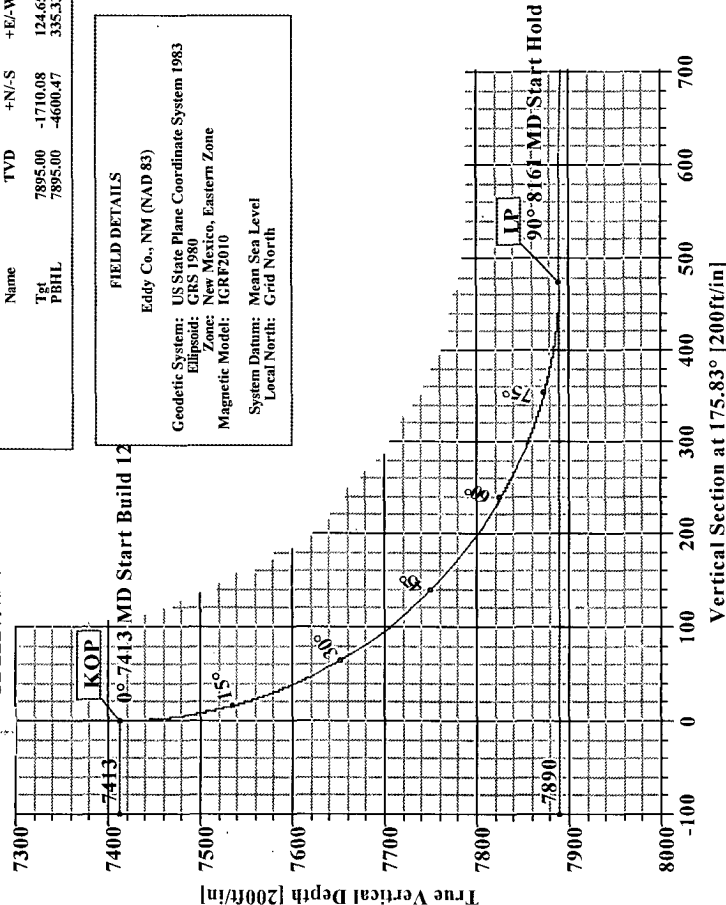
SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	0.00	0.00	175.83	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	7412.54	0.00	175.83	7412.54	0.00	0.00	0.00	0.00	0.00	0.00
3	8160.61	89.77	175.83	7890.00	-474.28	34.57	12.00	175.83	475.54	Tgt
4	9399.70	89.77	175.83	7895.00	-1710.08	124.65	0.00	0.00	1714.62	Tgt
5	9407.42	90.00	175.83	7895.02	-1717.78	125.21	3.00	0.02	1722.35	PBHL
6	12297.76	90.00	175.83	7895.00	-4600.47	335.33	0.00	0.00	4612.67	PBHL

WELL DETAILS

Name	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
4H	0.00	0.00	590686.60	616008.41	32°37'24.997"N	104°05'26.875"W	N/A

KB ELEV: 3290
GL ELEV: 3264



TARGET DETAILS

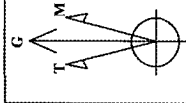
Name	TVD	+N/-S	+E/-W	Northing	Easting	Shape
Tgt	7895.00	-1710.08	124.65	588976.52	616133.06	Point
PBHL	7895.00	-4600.47	335.33	586086.13	616343.74	Point

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

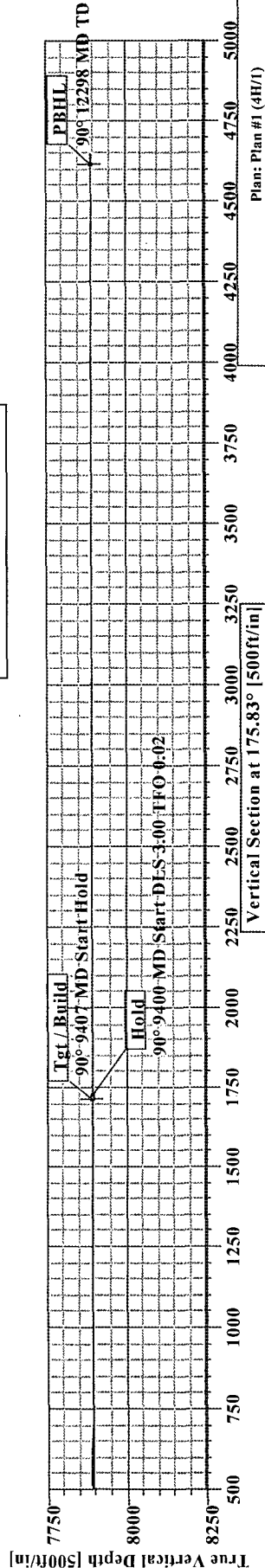
Jasper 32 State Com 4H
Site Centre Northing: 590686.60
Easting: 616008.41
Ground Level: 3264.00
Positional Uncertainty: 0.00
Convergence: 0.13



Azimuths to Grid North
True North: -0.13°
Magnetic North: 7.71°
Magnetic Field
Strength: 48800 nT
Declination: 40.40°
Date: 2/17/2011
Model: IGRF2010
Total Correction to Grid North: 7.71°



LEGEND
1 Plan #1



Plan: Plan #1 (4H/1)

Created By: Keith Noack

Date: 2/17/2011



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WFT Plan Report - X & Y's



Weatherford

Company: Devon Energy Date: 2/17/2011 Time: 13:35:23 Page: 1
Field: Eddy Co., NM (NAD 83) Co-ordinate(NE) Reference: Well: 4H, Grid North
Site: Jasper 32 State Com 4H Vertical (TVD) Reference: SITE 3290.0
Well: 4H Section (VS) Reference: Well (0.00N,0.00E,175.83Azi)
Wellpath: 1 Survey Calculation Method: Minimum Curvature Db: Sybase

Plan: Plan #1 Date Composed: 2/17/2011
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: Jasper 32 State Com 4H

Site Position: Northing: 590686.60 ft Latitude: 32 37 24.997 N
From: Map Easting: 616008.41 ft Longitude: 104 5 26.875 W
Position Uncertainty: 0.00 ft North Reference: Grid
Ground Level: 3264.00 ft Grid Convergence: 0.13 deg

Well: 4H Slot Name:
Well Position: +N/-S 0.00 ft Northing: 590686.60 ft Latitude: 32 37 24.997 N
+E/-W 0.00 ft Easting: 616008.41 ft Longitude: 104 5 26.875 W
Position Uncertainty: 0.00 ft

Wellpath: 1 Drilled From: Surface
Current Datum: SITE Tie-on Depth: 0.00 ft
Magnetic Data: 8/15/2011 Height 3290.00 ft Above System Datum: Mean Sea Level
Field Strength: 48808 nT Declination: 7.84 deg
Vertical Section: Depth From (TVD) +N/-S Mag Dip Angle: 60.46 deg
ft ft +E/-W Direction
deg
7895.00 0.00 0.00 175.83

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	175.83	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
7412.54	0.00	175.83	7412.54	0.00	0.00	0.00	0.00	0.00	0.00	
8160.61	89.77	175.83	7890.00	-474.28	34.57	12.00	12.00	0.00	175.83	
9399.70	89.77	175.83	7895.00	-1710.08	124.65	0.00	0.00	0.00	0.00	Tgt
9407.42	90.00	175.83	7895.02	-1717.78	125.21	3.00	3.00	0.00	0.02	
12297.76	90.00	175.83	7895.00	-4600.47	335.33	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
7400.00	0.00	175.83	7400.00	0.00	0.00	0.00	0.00	590686.60	616008.41	
7412.54	0.00	175.83	7412.54	0.00	0.00	0.00	0.00	590686.60	616008.41	KOP
7425.00	1.50	175.83	7425.00	-0.16	0.01	0.16	12.00	590686.44	616008.42	
7450.00	4.50	175.83	7449.96	-1.46	0.11	1.47	12.00	590685.14	616008.52	
7475.00	7.50	175.83	7474.82	-4.07	0.30	4.08	12.00	590682.53	616008.71	
7500.00	10.50	175.83	7499.51	-7.97	0.58	7.99	12.00	590678.63	616008.99	
7525.00	13.50	175.83	7523.96	-13.15	0.96	13.18	12.00	590673.45	616009.37	
7550.00	16.50	175.83	7548.11	-19.60	1.43	19.65	12.00	590667.00	616009.84	
7575.00	19.50	175.83	7571.88	-27.30	1.99	27.37	12.00	590659.30	616010.40	
7600.00	22.50	175.83	7595.22	-36.23	2.64	36.33	12.00	590650.37	616011.05	
7625.00	25.50	175.83	7618.06	-46.37	3.38	46.50	12.00	590640.23	616011.79	
7650.00	28.50	175.83	7640.33	-57.69	4.21	57.84	12.00	590628.91	616012.62	
7675.00	31.50	175.83	7661.98	-70.15	5.11	70.34	12.00	590616.45	616013.52	
7700.00	34.50	175.83	7682.95	-83.73	6.10	83.95	12.00	590602.87	616014.51	
7725.00	37.50	175.83	7703.17	-98.38	7.17	98.64	12.00	590588.22	616015.58	



Weatherford International Ltd.

WFT Plan Report - X & Y's



Weatherford

Company: Devon Energy	Date: 2/17/2011	Time: 13:35:23	Page: 2
Field: Eddy Co., NM (NAD 83)	Co-ordinate(NE) Reference: Well: 4H, Grid North		
Site: Jasper 32 State Com 4H	Vertical (TVD) Reference: SITE 3290.0		
Well: 4H	Section (VS) Reference: Well (0.00N,0.00E,175.83Azi)		
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
7750.00	40.50	175.83	7722.60	-114.07	8.31	114.37	12.00	590572.53	616016.72	
7775.00	43.50	175.83	7741.18	-130.75	9.53	131.10	12.00	590555.85	616017.94	
7800.00	46.50	175.83	7758.85	-148.38	10.82	148.77	12.00	590538.22	616019.23	
7825.00	49.50	175.83	7775.58	-166.90	12.17	167.35	12.00	590519.70	616020.58	
7850.00	52.50	175.83	7791.31	-186.28	13.58	186.77	12.00	590500.32	616021.99	
7875.00	55.50	175.83	7806.01	-206.45	15.05	206.99	12.00	590480.15	616023.46	
7900.00	58.50	175.83	7819.62	-227.35	16.57	227.96	12.00	590459.25	616024.98	
7925.00	61.50	175.83	7832.12	-248.94	18.15	249.60	12.00	590437.66	616026.56	
7950.00	64.50	175.83	7843.47	-271.16	19.76	271.88	12.00	590415.44	616028.17	
7975.00	67.50	175.83	7853.64	-293.93	21.43	294.71	12.00	590392.67	616029.84	
8000.00	70.50	175.83	7862.60	-317.21	23.12	318.05	12.00	590369.39	616031.53	
8025.00	73.50	175.83	7870.33	-340.92	24.85	341.82	12.00	590345.68	616033.26	
8050.00	76.50	175.83	7876.80	-365.00	26.61	365.96	12.00	590321.60	616035.02	
8075.00	79.50	175.83	7882.00	-389.38	28.38	390.42	12.00	590297.22	616036.79	
8100.00	82.50	175.83	7885.91	-414.01	30.18	415.10	12.00	590272.59	616038.59	
8125.00	85.50	175.83	7888.53	-438.80	31.98	439.96	12.00	590247.80	616040.39	
8150.00	88.50	175.83	7889.84	-463.70	33.80	464.93	12.00	590222.90	616042.21	
8160.61	89.77	175.83	7890.00	-474.28	34.57	475.54	12.00	590212.32	616042.98	LP
8200.00	89.77	175.83	7890.16	-513.56	37.43	514.93	0.00	590173.04	616045.84	
8300.00	89.77	175.83	7890.56	-613.30	44.70	614.92	0.00	590073.30	616053.11	
8400.00	89.77	175.83	7890.97	-713.03	51.97	714.92	0.00	589973.57	616060.38	
8500.00	89.77	175.83	7891.37	-812.77	59.24	814.92	0.00	589873.83	616067.65	
8600.00	89.77	175.83	7891.77	-912.50	66.51	914.92	0.00	589774.10	616074.92	
8700.00	89.77	175.83	7892.18	-1012.24	73.78	1014.92	0.00	589674.36	616082.19	
8800.00	89.77	175.83	7892.58	-1111.97	81.05	1114.92	0.00	589574.63	616089.46	
8900.00	89.77	175.83	7892.98	-1211.71	88.32	1214.92	0.00	589474.89	616096.73	
9000.00	89.77	175.83	7893.39	-1311.44	95.59	1314.92	0.00	589375.16	616104.00	
9100.00	89.77	175.83	7893.79	-1411.17	102.86	1414.92	0.00	589275.43	616111.27	
9200.00	89.77	175.83	7894.19	-1510.91	110.13	1514.92	0.00	589175.69	616118.54	
9300.00	89.77	175.83	7894.60	-1610.64	117.40	1614.92	0.00	589075.96	616125.81	
9399.70	89.77	175.83	7895.00	-1710.08	124.65	1714.62	0.00	588976.52	616133.06	Tgt
9407.42	90.00	175.83	7895.02	-1717.78	125.21	1722.33	3.00	588968.82	616133.62	Hold
9500.00	90.00	175.83	7895.02	-1810.11	131.94	1814.92	0.00	588876.49	616140.35	
9600.00	90.00	175.83	7895.01	-1909.85	139.21	1914.92	0.00	588776.75	616147.62	
9700.00	90.00	175.83	7895.01	-2009.58	146.48	2014.92	0.00	588677.02	616154.89	
9800.00	90.00	175.83	7895.01	-2109.32	153.75	2114.92	0.00	588577.28	616162.16	
9900.00	90.00	175.83	7895.01	-2209.05	161.02	2214.92	0.00	588477.55	616169.43	
10000.00	90.00	175.83	7895.01	-2308.79	168.29	2314.92	0.00	588377.81	616176.70	
10100.00	90.00	175.83	7895.01	-2408.53	175.56	2414.92	0.00	588278.07	616183.97	
10200.00	90.00	175.83	7895.01	-2508.26	182.83	2514.92	0.00	588178.34	616191.24	
10300.00	90.00	175.83	7895.01	-2608.00	190.10	2614.92	0.00	588078.60	616198.51	
10400.00	90.00	175.83	7895.01	-2707.73	197.37	2714.92	0.00	587978.87	616205.78	
10500.00	90.00	175.83	7895.01	-2807.47	204.64	2814.92	0.00	587879.13	616213.05	
10600.00	90.00	175.83	7895.01	-2907.20	211.91	2914.92	0.00	587779.40	616220.32	
10700.00	90.00	175.83	7895.01	-3006.94	219.18	3014.92	0.00	587679.66	616227.59	
10800.00	90.00	175.83	7895.01	-3106.67	226.45	3114.92	0.00	587579.93	616234.86	
10900.00	90.00	175.83	7895.01	-3206.41	233.72	3214.92	0.00	587480.19	616242.13	
11000.00	90.00	175.83	7895.01	-3306.14	240.99	3314.92	0.00	587380.46	616249.40	
11100.00	90.00	175.83	7895.01	-3405.88	248.26	3414.92	0.00	587280.72	616256.67	
11200.00	90.00	175.83	7895.01	-3505.62	255.53	3514.92	0.00	587180.98	616263.94	
11300.00	90.00	175.83	7895.01	-3605.35	262.80	3614.92	0.00	587081.25	616271.21	
11400.00	90.00	175.83	7895.00	-3705.09	270.07	3714.92	0.00	586981.51	616278.48	
11500.00	90.00	175.83	7895.00	-3804.82	277.34	3814.92	0.00	586881.78	616285.75	



Weatherford International Ltd.

WFT Plan Report - X & Y's



Company: Devon Energy
Field: Eddy Co., NM (NAD 83)
Site: Jasper 32 State Com 4H
Well: 4H
Wellpath: 1

Date: 2/17/2011
Co-ordinate(NE) Reference: Well: 4H, Grid North
Vertical (TVD) Reference: SITE 3290.0
Section (VS) Reference: Well (0.00N,0.00E,175.83Azi)
Survey Calculation Method: Minimum Curvature
Page: 3
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
11600.00	90.00	175.83	7895.00	-3904.56	284.61	3914.92	0.00	586782.04	616293.02	
11700.00	90.00	175.83	7895.00	-4004.29	291.87	4014.92	0.00	586682.31	616300.28	
11800.00	90.00	175.83	7895.00	-4104.03	299.14	4114.92	0.00	586582.57	616307.55	
11900.00	90.00	175.83	7895.00	-4203.76	306.41	4214.92	0.00	586482.84	616314.82	
12000.00	90.00	175.83	7895.00	-4303.50	313.68	4314.92	0.00	586383.10	616322.09	
12100.00	90.00	175.83	7895.00	-4403.23	320.95	4414.92	0.00	586283.37	616329.36	
12200.00	90.00	175.83	7895.00	-4502.97	328.22	4514.92	0.00	586183.63	616336.63	
12297.76	90.00	175.83	7895.00	-4600.47	335.33	4612.67	0.00	586086.13	616343.74	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		
Tgt			7895.00	-1710.08	124.65	588976.52	616133.06	32	37	8.072 N	104	5	25.463 W
PBHL			7895.00	-4600.47	335.33	586086.13	616343.74	32	36	39.466 N	104	5	23.077 W

Casing Points

MD	TVD	Diameter	Hole Size	Name

Annotation

MD ft	TVD ft	
7412.54	7412.54	KOP
8160.61	7890.00	LP
9399.70	7895.00	Tgt / Build
9407.42	7895.02	Hold
12297.75	7895.00	PBHL

Formations

MD	TVD	Formations	Lithology	Dip Angle	Dip Direction

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

GeoDec v5.03

Report Date: February 18, 2011
Job Number: _____
Customer: Devon Energy
Well Name: Jasper 32 State Com #4H
API Number: _____
Rig Name: _____
Location: Eddy Co., NM
Block: _____
Engineer: RWJ

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 590689.600 USFT	Latitude 32.6236217 DEG
East/West 616008.410 USFT	Longitude -104.0907945 DEG
Grid Convergence: .13°	
Total Correction: +7.71°	

Geodetic Location WGS84	Elevation =	0.0 Meters
Latitude =	32.62362° N	32° 37 min 25.038 sec
Longitude =	104.09079° W	104° 5 min 26.860 sec

Magnetic Declination =	7.84°	[True North Offset]	
Local Gravity =	.9988 g	Checksum =	6626
Local Field Strength =	48804 nT	Magnetic Vector X =	23835 nT
Magnetic Dip =	60.46°	Magnetic Vector Y =	3280 nT
Magnetic Model =	IGRF-2010g11	Magnetic Vector Z =	42461 nT
Spud Date =	Aug 15, 2011	Magnetic Vector H =	24060 nT

Signed: _____

Date: _____