Weatherford®

Drilling Services

Proposal

devon

LONE TREE DRAW 13 STATE COM 5H

EDDY COUNTY, NM

WELL FILE: **PLAN 1**

FEBRUARY 13, 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

Oil Conservation Division
Case No. 14
Exhibit No. 14

devon

Lone Tree Draw 13 State 5H
Eddy County, New Mexico

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	0.00	0.00	177.55	0.00	0.00	0.00	0.00	0.00	0.00	
2	4468.79	0.00	177.55	4468.79	0.00	0.00	0.00	0.00	0.00	
3	5248.15	89.63	177.55	4967.00	-494.52	21.20	11.50	177.55	494.98	
4	9542.70	89.63	177.55	4995.00	-4785.04	205.12	0.00	0.00	4789.43	PBHL

WELL DETAILS

Name	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
Lone Tree Draw 13 State 5H	0.00	0.00	541028.09	601674.82	32°29'13.895N	104°08'15.546W	N/A

TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Shape
None						

KB ELEV: 3185
GL ELEV: 3165

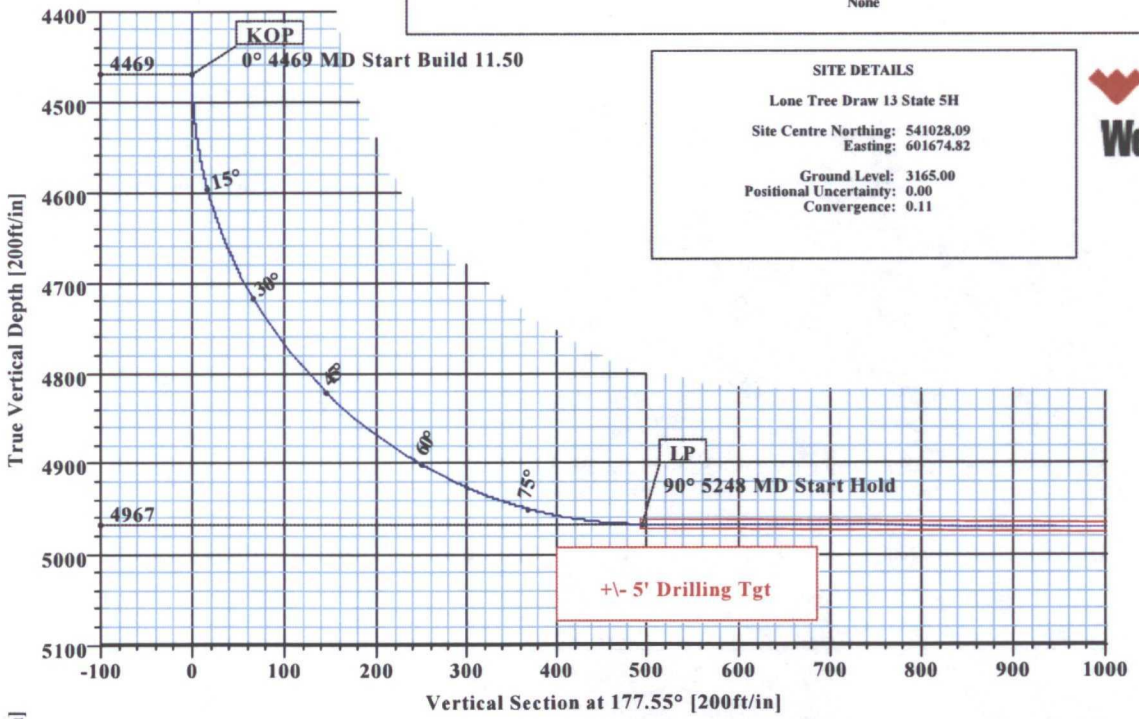
SITE DETAILS

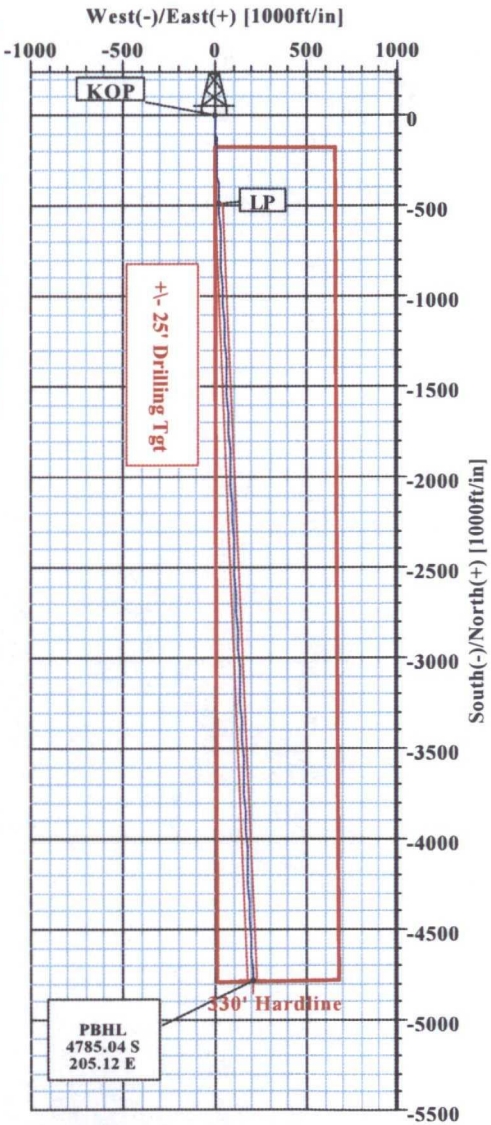
Lone Tree Draw 13 State 5H

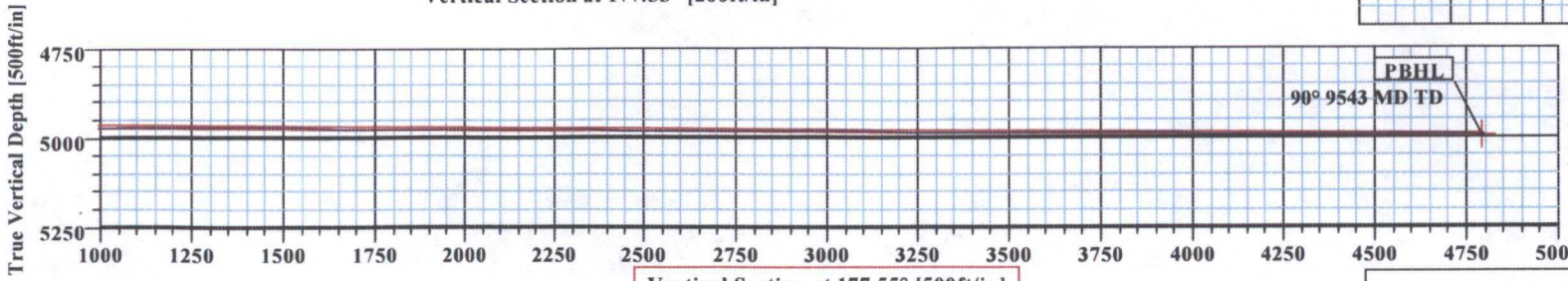
Site Centre Northing: 541028.09
Easting: 601674.82

Ground Level: 3165.00
Positional Uncertainty: 0.00
Convergence: 0.11

Weatherford







Wellpath: (Lone Tree Draw 13 State 5H/)

Created By: Russell W. Joyner Date: 2/13/2013

devon

Weatherford
Wft Plan Report X Y's.

Weatherford

Company:	Devon Energy	**Date:** 2/12/2013 **Time:** 16:24:25	**Page:** 1
Field:	Eddy Co., NM (NAD 83)	**Co-ordinate(NE) Reference:**	Well: Lone Tree Draw 13 State 5H
Site:	Lone Tree Draw 13 State 5H	**Vertical (TVD) Reference:**	SITE 3185.0
Well:	Lone Tree Draw 13 State 5H	**Section (VS) Reference:**	Well (0.00N,0.00E,177.55Azi)
Wellpath:	1	**Survey Calculation Method:**	Minimum Curvature **Db:** Sybase

Plan:	Plan #1	**Date Composed:**	2/12/2013
		Version:	1
Principal:	Yes	**Tied-to:**	From Surface

Site: Lone Tree Draw 13 State 5H

Site Position:		**Northing:**	541028.09 ft	**Latitude:**	32 29 13.895 N
From:	Map	**Easting:**	601674.82 ft	**Longitude:**	104 8 15.546 W
Position Uncertainty:	0.00 ft			**North Reference:**	Grid
Ground Level:	3165.00 ft			**Grid Convergence:**	0.11 deg

Well: Lone Tree Draw 13 State 5H **Slot Name:**

Well Position:	+N/-S	0.00 ft	**Northing:**	541028.09 ft	**Latitude:**	32 29 13.895 N
	+E/-W	0.00 ft	**Easting:**	601674.82 ft	**Longitude:**	104 8 15.546 W
Position Uncertainty:		0.00 ft				

Wellpath: 1 **Drilled From:** Surface

Tie-on Depth: 0.00 ft

Current Datum:	SITE	**Height** 3185.00 ft	**Above System Datum:** Mean Sea Level
Magnetic Data:	4/15/2013		**Declination:** 7.64 deg
Field Strength:	48554 nT		**Mag Dip Angle:** 60.29 deg

Vertical Section: Depth From (TVD) ft	+N/-S ft	+E/-W ft	Direction deg
0.00	0.00	0.00	177.55

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	177.55	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
4468.79	0.00	177.55	4468.79	0.00	0.00	0.00	0.00	0.00	0.00	
5248.15	89.63	177.55	4967.00	-494.52	21.20	11.50	11.50	0.00	177.55	
9542.70	89.63	177.55	4995.00	-4785.04	205.12	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
4400.00	0.00	177.55	4400.00	0.00	0.00	0.00	0.00	541028.09	601674.82	
4468.79	0.00	177.55	4468.79	0.00	0.00	0.00	0.00	541028.09	601674.82	KOP
4475.00	0.71	177.55	4475.00	-0.04	0.00	0.04	11.50	541028.05	601674.82	
4500.00	3.59	177.55	4499.98	-0.98	0.04	0.98	11.50	541027.11	601674.86	
4525.00	6.46	177.55	4524.88	-3.16	0.14	3.17	11.50	541024.93	601674.96	
4550.00	9.34	177.55	4549.64	-6.60	0.28	6.60	11.50	541021.49	601675.10	
4575.00	12.21	177.55	4574.20	-11.27	0.48	11.28	11.50	541016.82	601675.30	
4600.00	15.09	177.55	4598.49	-17.16	0.74	17.18	11.50	541010.93	601675.56	
4625.00	17.96	177.55	4622.45	-24.27	1.04	24.29	11.50	541003.82	601675.86	
4650.00	20.84	177.55	4646.03	-32.56	1.40	32.59	11.50	540995.53	601676.22	
4675.00	23.71	177.55	4669.16	-42.03	1.80	42.07	11.50	540986.06	601676.62	
4700.00	26.59	177.55	4691.79	-52.64	2.26	52.69	11.50	540975.45	601677.08	
4725.00	29.46	177.55	4713.86	-64.38	2.76	64.44	11.50	540963.71	601677.58	
4750.00	32.34	177.55	4735.30	-77.21	3.31	77.28	11.50	540950.88	601678.13	
4775.00	35.21	177.55	4756.08	-91.09	3.90	91.17	11.50	540937.00	601678.72	
4800.00	38.09	177.55	4776.14	-106.00	4.54	106.10	11.50	540922.09	601679.36	
4825.00	40.96	177.55	4795.42	-121.89	5.23	122.01	11.50	540906.20	601680.05	
4850.00	43.84	177.55	4813.88	-138.73	5.95	138.86	11.50	540889.36	601680.77	
4875.00	46.71	177.55	4831.47	-156.48	6.71	156.62	11.50	540871.61	601681.53	
4900.00	49.59	177.55	4848.15	-175.08	7.51	175.24	11.50	540853.01	601682.33	
4925.00	52.46	177.55	4863.87	-194.50	8.34	194.68	11.50	540833.59	601683.16	
4950.00	55.34	177.55	4878.60	-214.68	9.20	214.88	11.50	540813.41	601684.02	
4975.00	58.21	177.55	4892.29	-235.57	10.10	235.79	11.50	540792.52	601684.92	

devon

Weatherford
Wft Plan Report X Y's.

Weatherford

Company: Devon Energy
Field: Eddy Co., NM (NAD 83)
Site: Lone Tree Draw 13 State 5H
Well: Lone Tree Draw 13 State 5H
Wellpath: 1

Date: 2/12/2013 **Time:** 16:24:25 **Page:** 2
Co-ordinate(NE) Reference: Well: Lone Tree Draw 13 State 5H
Vertical (TVD) Reference: SITE 3185.0
Section (VS) Reference: Well (0.00N,0.00E,177.55Azi)
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
5000.00	61.09	177.55	4904.92	-257.12	11.02	257.36	11.50	540770.97	601685.84	
5025.00	63.96	177.55	4916.45	-279.28	11.97	279.54	11.50	540748.81	601686.79	
5050.00	66.84	177.55	4926.86	-301.99	12.95	302.27	11.50	540726.10	601687.77	
5075.00	69.71	177.55	4936.11	-325.19	13.94	325.49	11.50	540702.90	601688.76	
5100.00	72.59	177.55	4944.19	-348.82	14.95	349.14	11.50	540679.27	601689.77	
5125.00	75.46	177.55	4951.07	-372.83	15.98	373.18	11.50	540655.26	601690.80	
5150.00	78.34	177.55	4956.73	-397.16	17.03	397.52	11.50	540630.93	601691.85	
5175.00	81.21	177.55	4961.17	-421.74	18.08	422.12	11.50	540606.35	601692.90	
5200.00	84.09	177.55	4964.37	-446.51	19.14	446.92	11.50	540581.58	601693.96	
5225.00	86.96	177.55	4966.31	-471.40	20.21	471.84	11.50	540556.69	601695.03	
5248.15	89.63	177.55	4967.00	-494.52	21.20	494.98	11.50	540533.57	601696.02	LP
5300.00	89.63	177.55	4967.34	-546.32	23.42	546.82	0.00	540481.77	601698.24	
5400.00	89.63	177.55	4967.99	-646.23	27.70	646.82	0.00	540381.86	601702.52	
5500.00	89.63	177.55	4968.65	-746.13	31.98	746.82	0.00	540281.96	601706.80	
5600.00	89.63	177.55	4969.30	-846.04	36.27	846.82	0.00	540182.05	601711.09	
5700.00	89.63	177.55	4969.95	-945.95	40.55	946.82	0.00	540082.14	601715.37	
5800.00	89.63	177.55	4970.60	-1045.85	44.83	1046.81	0.00	539982.24	601719.65	
5900.00	89.63	177.55	4971.25	-1145.76	49.12	1146.81	0.00	539882.33	601723.94	
6000.00	89.63	177.55	4971.90	-1245.67	53.40	1246.81	0.00	539782.42	601728.22	
6100.00	89.63	177.55	4972.56	-1345.57	57.68	1346.81	0.00	539682.52	601732.50	
6200.00	89.63	177.55	4973.21	-1445.48	61.96	1446.81	0.00	539582.61	601736.78	
6300.00	89.63	177.55	4973.86	-1545.38	66.25	1546.80	0.00	539482.71	601741.07	
6400.00	89.63	177.55	4974.51	-1645.29	70.53	1646.80	0.00	539382.80	601745.35	
6500.00	89.63	177.55	4975.16	-1745.20	74.81	1746.80	0.00	539282.89	601749.63	
6600.00	89.63	177.55	4975.82	-1845.10	79.09	1846.80	0.00	539182.99	601753.91	
6700.00	89.63	177.55	4976.47	-1945.01	83.38	1946.79	0.00	539083.08	601758.20	
6800.00	89.63	177.55	4977.12	-2044.91	87.66	2046.79	0.00	538983.18	601762.48	
6900.00	89.63	177.55	4977.77	-2144.82	91.94	2146.79	0.00	538883.27	601766.76	
7000.00	89.63	177.55	4978.42	-2244.73	96.22	2246.79	0.00	538783.36	601771.04	
7100.00	89.63	177.55	4979.08	-2344.63	100.51	2346.79	0.00	538683.46	601775.33	
7200.00	89.63	177.55	4979.73	-2444.54	104.79	2446.78	0.00	538583.55	601779.61	
7300.00	89.63	177.55	4980.38	-2544.45	109.07	2546.78	0.00	538483.64	601783.89	
7400.00	89.63	177.55	4981.03	-2644.35	113.36	2646.78	0.00	538383.74	601788.18	
7500.00	89.63	177.55	4981.68	-2744.26	117.64	2746.78	0.00	538283.83	601792.46	
7600.00	89.63	177.55	4982.34	-2844.16	121.92	2846.78	0.00	538183.93	601796.74	
7700.00	89.63	177.55	4982.99	-2944.07	126.20	2946.77	0.00	538084.02	601801.02	
7800.00	89.63	177.55	4983.64	-3043.98	130.49	3046.77	0.00	537984.11	601805.31	
7900.00	89.63	177.55	4984.29	-3143.88	134.77	3146.77	0.00	537884.21	601809.59	
8000.00	89.63	177.55	4984.94	-3243.79	139.05	3246.77	0.00	537784.30	601813.87	
8100.00	89.63	177.55	4985.59	-3343.69	143.33	3346.76	0.00	537684.40	601818.15	
8200.00	89.63	177.55	4986.25	-3443.60	147.62	3446.76	0.00	537584.49	601822.44	
8300.00	89.63	177.55	4986.90	-3543.51	151.90	3546.76	0.00	537484.58	601826.72	
8400.00	89.63	177.55	4987.55	-3643.41	156.18	3646.76	0.00	537384.68	601831.00	
8500.00	89.63	177.55	4988.20	-3743.32	160.46	3746.76	0.00	537284.77	601835.28	
8600.00	89.63	177.55	4988.85	-3843.22	164.75	3846.75	0.00	537184.87	601839.57	
8700.00	89.63	177.55	4989.51	-3943.13	169.03	3946.75	0.00	537084.96	601843.85	
8800.00	89.63	177.55	4990.16	-4043.04	173.31	4046.75	0.00	536985.05	601848.13	
8900.00	89.63	177.55	4990.81	-4142.94	177.60	4146.75	0.00	536885.15	601852.42	
9000.00	89.63	177.55	4991.46	-4242.85	181.88	4246.75	0.00	536785.24	601856.70	
9100.00	89.63	177.55	4992.11	-4342.76	186.16	4346.74	0.00	536685.33	601860.98	
9200.00	89.63	177.55	4992.77	-4442.66	190.44	4446.74	0.00	536585.43	601865.26	
9300.00	89.63	177.55	4993.42	-4542.57	194.73	4546.74	0.00	536485.52	601869.55	

devon

Weatherford
Wft Plan Report X Y's.

Weatherford

Company:	Devon Energy	**Date:** 2/12/2013 **Time:** 16:24:25	**Page:** 3
Field:	Eddy Co., NM (NAD 83)	**Co-ordinate(NE) Reference:**	Well: Lone Tree Draw 13 State 5H
Site:	Lone Tree Draw 13 State 5H	**Vertical (TVD) Reference:**	SITE 3185.0
Well:	Lone Tree Draw 13 State 5H	**Section (VS) Reference:**	Well (0.00N,0.00E,177.55Azi)
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
9400.00	89.63	177.55	4994.07	-4642.47	199.01	4646.74	0.00	536385.62	601873.83	
9500.00	89.63	177.55	4994.72	-4742.38	203.29	4746.74	0.00	536285.71	601878.11	
9542.70	89.63	177.55	4995.00	-4785.04	205.12	4789.43	0.00	536243.05	601879.94	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			4995.00	-4785.04	205.12	536243.05	601879.94	32	28	26.541 N	104	8	13.254 W

Casing Points

MD	TVD	Diameter	Hole Size	Name

Annotation

MD ft	TVD ft	
4468.79	4468.79	KOP
5248.15	4967.00	LP
9542.70	4995.00	PBHL

Weatherford Drilling Services

GeoDec v5.03

Report Date:	February 12, 2013
Job Number:	
Customer:	Devon Energy
Well Name:	Lone Tree Draw 13 State 5H
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 541028.090 USFT	Latitude 32.4871961 DEG
East/West 601674.820 USFT	Longitude -104.1376477 DEG
Grid Convergence: .11°	
Total Correction: +7.64°	

Geodetic Location WGS84	Elevation =	0.0 Meters
Latitude =	32.48720° N	32° 29 min 13.906 sec
Longitude =	104.13765° W	104° 8 min 15.532 sec

Magnetic Declination =	7.75°	[True North Offset]	
Local Gravity =	.9988 g	CheckSum =	6589
Local Field Strength =	48525 nT	Magnetic Vector X =	23863 nT
Magnetic Dip =	60.24°	Magnetic Vector Y =	3248 nT
Magnetic Model =	bggm2012	Magnetic Vector Z =	42127 nT
Spud Date =	Apr 15, 2013	Magnetic Vector H =	24083 nT

Signed:_____ Date:_____