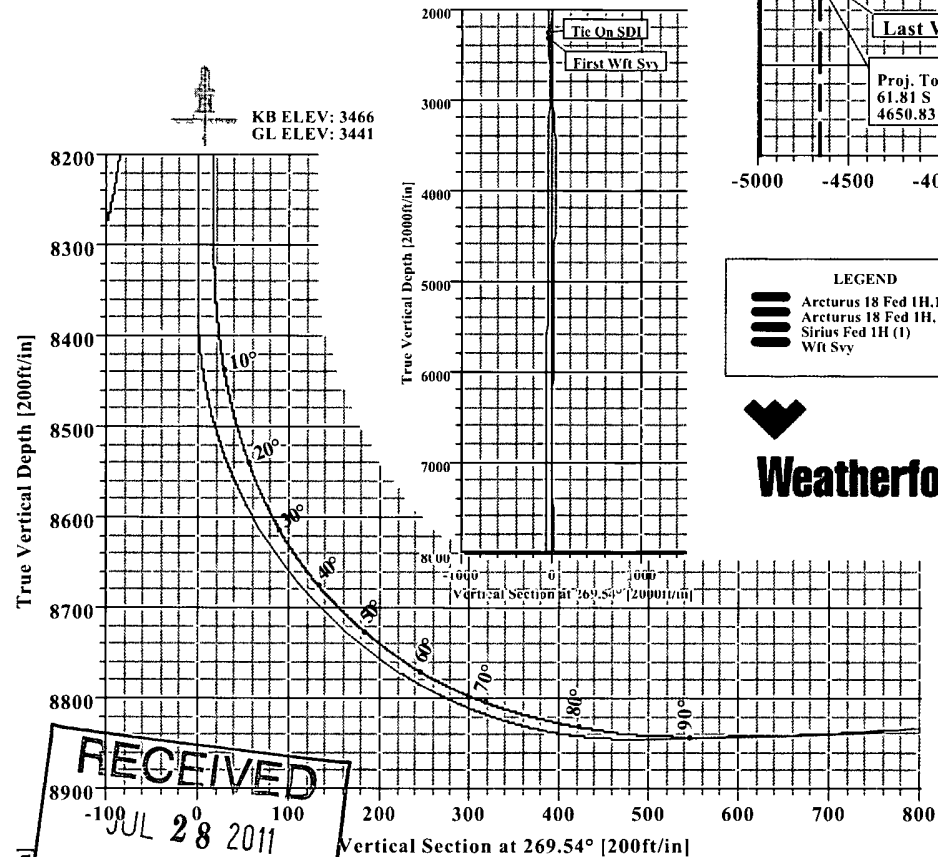
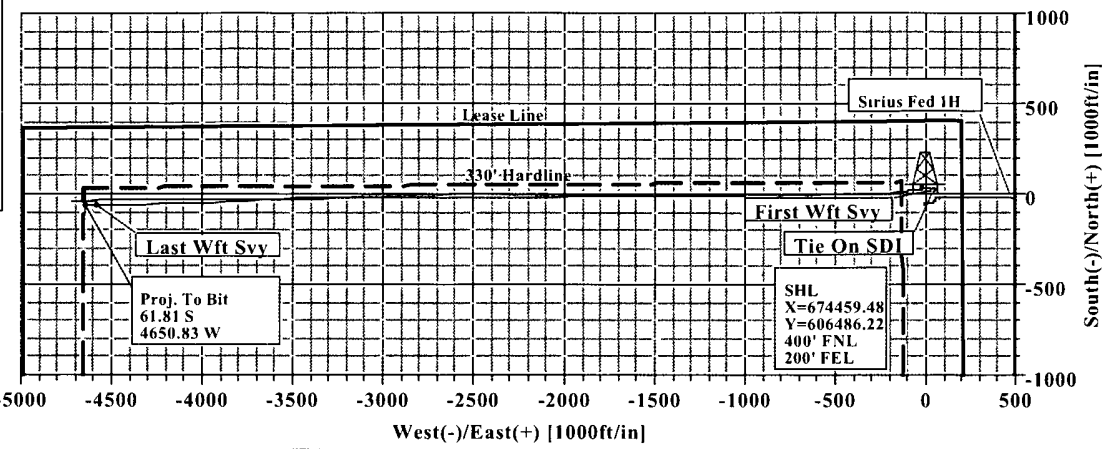
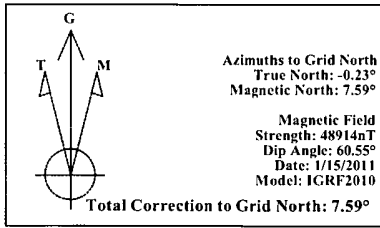


30-015-38237



**ARCTURUS 18 FED 1H
EDDY CO., NEW MEXICO**



LEGEND

- Arcturus 18 Fed 1H.1.Plan #2
- Arcturus 18 Fed 1H.1.Gyro
- Sirius Fed 1H (1)
- Wft Svy



SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	0.00	0.00	269.54	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	8367.68	0.00	269.54	8367.68	0.00	0.00	0.00	0.00	0.00	0.00
3	9129.28	91.39	269.54	8845.00	-3.89	-489.05	12.00	269.54	489.06	Tgt
4	11640.82	91.39	269.54	8784.00	-23.85	-2999.77	0.00	0.00	2999.86	Tgt
5	11647.90	91.18	269.54	8783.84	-23.91	-3006.84	3.00	-179.94	3006.94	Tgt
6	13291.82	91.18	269.54	8750.00	-36.98	-4650.37	0.00	0.00	4650.52	PBHL

WELL DETAILS

Name	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
Arcturus 18 Fed 1H	0.00	0.00	606486.22	674459.48	32°39'59.499N	103°54'02.658W	N/A

TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Shape
PBHL	8750.00	-36.98	-4650.37	606449.24	669809.11	Point
Tgt	8784.00	-23.85	-2999.77	606462.37	671459.71	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

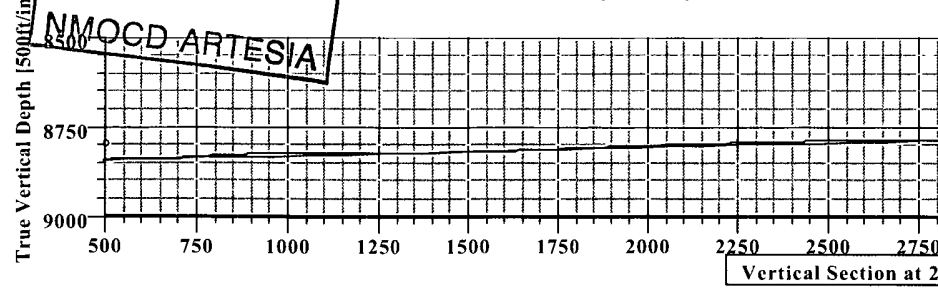
Arcturus 18 Fed 1H

Site Centre Northing: 606486.22
 Easting: 674459.48

Ground Level: 3441.00
 Positional Uncertainty: 0.00
 Convergence: 0.23

Survey: Wft Svy (Arcturus 18 Fed 1H/1)

No	MD	Inc	Az	TVD	+N/-S	+E/-W	DLeg	TFace	VSec
137	13275.00	92.62	269.15	8747.10	-61.81	-4650.83	0.00	0.00	4651.18



RECEIVED
 JUL 28 2011
 NMOCD ARTESIA



Weatherford International Ltd.

WFT Survey Report X & Y's



Company: Devon Energy Field: Eddy Co., NM (NAD 83) Site: Arcturus 18 Fed 1H Well: Arcturus 18 Fed 1H Wellpath: 1	Date: 2/11/2011 Co-ordinate(NE) Reference: Well. Arcturus 18 Fed 1H, Grid North Vertical (TVD) Reference: SITE 3466.0 Section (VS) Reference: Well (0.00N,0.00E,269.54Azi) Survey Calculation Method: Minimum Curvature	Time: 07:36.04 Page: 1 Db: Sybase
---	--	--

Survey: Wft Svy	Start Date: 1/19/2011
Company: Weatherford International Ltd.	Engineer: Russell W Joyner
Tool: MWD,MWD - Standard	Tied-to: User Defined

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: Arcturus 18 Fed 1H

Site Position:	Northing: 606486.22 ft	Latitude: 32 39 59.499 N
From: Map	Easting: 674459.48 ft	Longitude: 103 54 2.658 W
Position Uncertainty: 0.00 ft		North Reference: Grid
Ground Level: 3441.00 ft		Grid Convergence: 0.23 deg

Well: Arcturus 18 Fed 1H

Well Position:	+N/-S 0.00 ft	Northing: 606486.22 ft	Latitude: 32 39 59.499 N
	+E/-W 0.00 ft	Easting: 674459.48 ft	Longitude: 103 54 2.658 W
Position Uncertainty:	0.00 ft		

Wellpath: 1	Drilled From: Surface
Current Datum: SITE	Tie-on Depth: 0.00 ft
Magnetic Data: 1/15/2011	Above System Datum: Mean Sea Level
Field Strength: 48914 nT	Declination: 7.82 deg
Vertical Section: Depth From (TVD)	Mag Dip Angle: 60.55 deg
ft	+N/-S
	ft
	+E/-W
	ft
	Direction
	deg
0.00	0.00
	0.00
	269.54

Survey

MD ft	Incl deg	Azim deg	TVD ft	N/S ft	E/W ft	DLS deg/100ft	VS ft	MapN ft	MapE ft	Comment
2254.00	1.84	61.76	2253.27	18.14	39.73	0.00	-39.87	606504.36	674499.21	Tie On SDI First Wft Svy
2314.00	1.47	54.24	2313.24	19.05	41.20	0.71	-41.35	606505.27	674500.68	
2410.00	2.13	308.89	2409.22	20.89	40.81	3.01	-40.98	606507.11	674500.29	
2504.00	3.49	294.06	2503.10	23.15	36.84	1.63	-37.02	606509.37	674496.32	
2599.00	4.09	288.08	2597.89	25.38	30.98	0.76	-31.18	606511.60	674490.46	
2693.00	4.84	284.44	2691.61	27.41	23.95	0.85	-24.17	606513.63	674483.43	
2788.00	4.46	282.52	2786.30	29.21	16.47	0.43	-16.70	606515.43	674475.95	
3046.00	4.56	274.79	3043.50	32.24	-3.55	0.24	3.29	606518.46	674455.93	
3163.00	5.13	277.78	3160.08	33.34	-13.36	0.53	13.10	606519.56	674446.12	
3257.00	5.05	274.50	3253.71	34.23	-21.65	0.32	21.38	606520.45	674437.83	
3352.00	3.46	279.11	3348.45	35.01	-28.65	1.71	28.37	606521.23	674430.83	
3447.00	2.09	253.04	3443.34	34.96	-33.14	1.93	32.86	606521.18	674426.34	
3541.00	0.33	21.65	3537.32	34.71	-34.68	2.46	34.40	606520.93	674424.80	
3636.00	0.33	41.37	3632.31	35.17	-34.40	0.12	34.12	606521.39	674425.08	
3730.00	0.11	9.44	3726.31	35.46	-34.20	0.26	33.92	606521.68	674425.28	
3825.00	0.40	27.42	3821.31	35.85	-34.04	0.31	33.75	606522.07	674425.44	
3920.00	0.47	55.43	3916.31	36.36	-33.56	0.23	33.27	606522.58	674425.92	
4014.00	0.11	140.53	4010.31	36.51	-33.19	0.50	32.90	606522.73	674426.29	
4108.00	0.46	92.46	4104.31	36.43	-32.75	0.42	32.46	606522.65	674426.73	
4203.00	0.05	75.42	4199.31	36.42	-32.33	0.43	32.04	606522.64	674427.15	
4297.00	0.15	16.17	4293.31	36.55	-32.26	0.14	31.97	606522.77	674427.22	
4392.00	0.36	85.27	4388.31	36.69	-31.93	0.35	31.63	606522.91	674427.55	
4487.00	0.25	350.72	4483.31	36.92	-31.66	0.48	31.37	606523.14	674427.82	
4581.00	0.50	61.84	4577.30	37.32	-31.33	0.51	31.04	606523.54	674428.15	



Weatherford International Ltd.

WFT Survey Report X & Y's



Company: Devon Energy	Date: 2/11/2011	Time: 07:36:04	Page: 2
Field: Eddy Co., NM (NAD 83)	Co-ordinate(NE) Reference: Well: Arcturus 18 Fed 1H, Grid North		
Site: Arcturus 18 Fed 1H	Vertical (TVD) Reference: SITE 3466 0		
Well: Arcturus 18 Fed 1H	Section (VS) Reference: Well (0.00N,0.00E,269.54Azi)		
Wellpath: 1	Survey Calculation Method: Minimum Curvature	Db: Sybase	

Survey

MD ft	Incl deg	Azim deg	TVD ft	N/S ft	E/W ft	DLS deg/100ft	VS ft	MapN ft	MapE ft	Comment
4676.00	0.30	95.20	4672.30	37.49	-30.72	0.31	30.42	606523.71	674428.76	
4770.00	0.53	66.37	4766.30	37.64	-30.08	0.32	29.78	606523.86	674429.40	
4865.00	0.64	48.91	4861.29	38.17	-29.28	0.22	28.97	606524.39	674430.20	
4959.00	0.46	82.37	4955.29	38.56	-28.51	0.38	28.20	606524.78	674430.97	
5054.00	0.71	114.84	5050.29	38.37	-27.59	0.43	27.29	606524.59	674431.89	
5148.00	0.92	79.81	5144.28	38.26	-26.32	0.56	26.02	606524.48	674433.16	
5243.00	1.27	90.20	5239.26	38.39	-24.52	0.42	24.21	606524.61	674434.96	
5337.00	1.16	69.92	5333.24	38.71	-22.58	0.47	22.27	606524.93	674436.90	
5432.00	1.15	62.68	5428.22	39.48	-20.83	0.15	20.52	606525.70	674438.65	
5526.00	1.14	54.19	5522.20	40.46	-19.24	0.18	18.91	606526.68	674440.24	
5621.00	0.87	39.14	5617.19	41.57	-18.02	0.40	17.68	606527.79	674441.46	
5715.00	1.09	51.52	5711.17	42.68	-16.86	0.32	16.53	606528.90	674442.62	
5810.00	0.84	63.92	5806.16	43.55	-15.53	0.34	15.19	606529.77	674443.95	
5905.00	1.08	58.87	5901.14	44.32	-14.14	0.27	13.79	606530.54	674445.34	
5999.00	1.15	44.99	5995.13	45.44	-12.72	0.30	12.35	606531.66	674446.76	
6094.00	1.08	52.89	6090.11	46.66	-11.33	0.18	10.96	606532.88	674448.15	
6188.00	0.99	47.19	6184.09	47.74	-10.02	0.15	9.64	606533.96	674449.46	
6283.00	0.92	44.06	6279.08	48.85	-8.89	0.09	8.50	606535.07	674450.59	
6377.00	0.62	24.49	6373.07	49.85	-8.16	0.42	7.76	606536.07	674451.32	
6472.00	0.73	42.56	6468.07	50.77	-7.53	0.25	7.13	606536.99	674451.95	
6566.00	0.47	66.56	6562.06	51.36	-6.78	0.38	6.37	606537.58	674452.70	
6661.00	0.55	32.96	6657.06	51.90	-6.17	0.32	5.76	606538.12	674453.31	
6756.00	1.06	46.20	6752.05	52.89	-5.29	0.57	4.87	606539.11	674454.19	
6850.00	0.55	66.20	6846.04	53.67	-4.25	0.61	3.82	606539.89	674455.23	
6945.00	0.80	260.84	6941.04	53.75	-4.49	1.41	4.06	606539.97	674454.99	
7039.00	0.90	225.46	7035.03	53.13	-5.66	0.56	5.24	606539.35	674453.82	
7134.00	0.85	227.80	7130.01	52.13	-6.71	0.06	6.30	606538.35	674452.77	
7228.00	0.81	245.58	7224.01	51.39	-7.83	0.28	7.43	606537.61	674451.65	
7323.00	1.08	229.44	7318.99	50.53	-9.13	0.40	8.72	606536.75	674450.35	
7417.00	1.08	237.75	7412.98	49.48	-10.55	0.17	10.15	606535.70	674448.93	
7512.00	1.56	201.79	7507.95	47.80	-11.79	0.98	11.41	606534.02	674447.69	
7606.00	1.89	195.44	7601.91	45.12	-12.67	0.41	12.31	606531.34	674446.81	
7701.00	1.72	198.19	7696.86	42.26	-13.54	0.20	13.20	606528.48	674445.94	
7795.00	2.20	188.84	7790.81	39.13	-14.25	0.61	13.94	606525.35	674445.23	
7889.00	2.06	196.63	7884.74	35.73	-15.01	0.34	14.73	606521.95	674444.47	
7984.00	1.93	187.52	7979.68	32.51	-15.71	0.36	15.45	606518.73	674443.77	
8078.00	2.14	200.18	8073.63	29.29	-16.52	0.53	16.29	606515.51	674442.96	
8172.00	0.95	206.41	8167.59	26.95	-17.48	1.28	17.26	606513.17	674442.00	
8235.00	0.67	176.95	8230.58	26.11	-17.69	0.78	17.48	606512.33	674441.79	
8289.00	0.71	159.62	8284.58	25.48	-17.56	0.39	17.35	606511.70	674441.92	
8320.00	1.14	219.46	8315.58	25.07	-17.68	3.21	17.49	606511.29	674441.80	
8352.00	3.33	267.88	8347.55	24.79	-18.82	8.47	18.62	606511.01	674440.66	
8383.00	5.64	273.33	8378.46	24.84	-21.24	7.57	21.04	606511.06	674438.24	
8415.00	7.01	274.28	8410.26	25.08	-24.75	4.29	24.55	606511.30	674434.73	
8446.00	10.42	273.87	8440.90	25.41	-29.44	11.00	29.24	606511.63	674430.04	
8478.00	12.90	268.32	8472.24	25.50	-35.90	8.50	35.69	606511.72	674423.58	
8509.00	16.26	264.38	8502.23	24.97	-43.68	11.30	43.48	606511.19	674415.80	
8541.00	19.31	261.89	8532.70	23.79	-53.38	9.82	53.19	606510.01	674406.10	
8572.00	22.53	261.41	8561.65	22.18	-64.33	10.40	64.15	606508.40	674395.15	
8604.00	26.21	261.29	8590.80	20.19	-77.38	11.50	77.22	606506.41	674382.10	
8635.00	30.65	260.72	8618.05	17.88	-91.95	14.35	91.81	606504.10	674367.53	
8667.00	35.16	261.02	8644.91	15.12	-109.11	14.10	108.99	606501.34	674350.37	



Weatherford International Ltd.

WFT Survey Report X & Y's



Company: Devon Energy	Date: 2/11/2011	Time: 07:36.04	Page: 3
Field: Eddy Co., NM (NAD 83)	Co-ordinate(NE) Reference: Well: Arcturus 18 Fed 1H, Grid North		
Site: Arcturus 18 Fed 1H	Vertical (TVD) Reference: SITE 3466.0		
Well: Arcturus 18 Fed 1H	Section (VS) Reference: Well (0.00N,0.00E,269.54Azi)		
Wellpath: 1	Survey Calculation Method: Minimum Curvature	Db: Sybase	

Survey

MD ft	Incl deg	Azim deg	TVD ft	N/S ft	E/W ft	DLS deg/100ft	VS ft	MapN ft	MapE ft	Comment
8698.00	38.98	261.92	8669.64	12.36	-127.59	12.45	127.48	606498.58	674331.89	
8729.00	43.09	261.31	8693.02	9.39	-147.72	13.32	147.64	606495.61	674311.76	
8761.00	47.90	261.80	8715.45	6.04	-170.29	15.07	170.23	606492.26	674289.19	
8792.00	51.37	264.11	8735.52	3.16	-193.72	12.55	193.69	606489.38	674265.76	
8824.00	55.85	267.37	8754.50	1.26	-219.40	16.22	219.38	606487.48	674240.08	
8855.00	59.92	269.60	8770.98	0.58	-245.64	14.47	245.63	606486.80	674213.84	
8887.00	64.32	270.56	8785.94	0.63	-273.92	14.00	273.90	606486.85	674185.56	
8918.00	67.85	269.50	8798.51	0.64	-302.25	11.81	302.24	606486.86	674157.23	
8950.00	71.59	268.37	8809.60	0.08	-332.26	12.15	332.24	606486.30	674127.22	
8981.00	74.87	269.19	8818.54	-0.55	-361.93	10.88	361.92	606485.67	674097.55	
9013.00	77.71	269.24	8826.13	-0.98	-393.01	8.88	393.00	606485.24	674066.47	
9044.00	80.06	269.14	8832.10	-1.41	-423.42	7.59	423.42	606484.81	674036.06	
9076.00	82.16	269.19	8837.05	-1.87	-455.03	6.56	455.03	606484.35	674004.45	
9107.00	85.20	268.55	8840.46	-2.48	-485.83	10.02	485.84	606483.74	673973.65	
9139.00	87.80	269.30	8842.41	-3.08	-517.77	8.46	517.77	606483.14	673941.71	
9170.00	90.18	269.22	8842.96	-3.48	-548.76	7.68	548.77	606482.74	673910.72	
9202.00	90.53	269.15	8842.76	-3.93	-580.75	1.12	580.77	606482.29	673878.73	
9263.00	91.78	269.09	8841.53	-4.87	-641.73	2.05	641.75	606481.35	673817.75	
9358.00	93.81	268.71	8836.90	-6.69	-736.60	2.17	736.63	606479.53	673722.88	
9452.00	93.54	269.13	8830.87	-8.46	-830.39	0.53	830.43	606477.76	673629.09	
9547.00	91.29	269.31	8826.87	-9.75	-925.29	2.38	925.33	606476.47	673534.19	
9641.00	89.62	267.84	8826.12	-12.09	-1019.25	2.37	1019.31	606474.13	673440.23	
9736.00	89.76	269.18	8826.64	-14.56	-1114.21	1.42	1114.29	606471.66	673345.27	
9830.00	91.22	270.53	8825.83	-14.80	-1208.20	2.12	1208.28	606471.42	673251.28	
9925.00	90.45	269.95	8824.45	-14.40	-1303.19	1.01	1303.27	606471.82	673156.29	
10019.00	90.67	270.19	8823.53	-14.28	-1397.19	0.35	1397.26	606471.94	673062.29	
10114.00	90.73	269.98	8822.37	-14.14	-1492.18	0.23	1492.25	606472.08	672967.30	
10208.00	92.56	271.23	8819.67	-13.15	-1586.13	2.36	1586.18	606473.07	672873.35	
10303.00	92.14	270.52	8815.78	-11.70	-1681.04	0.87	1681.08	606474.52	672778.44	
10398.00	92.34	270.70	8812.06	-10.69	-1775.96	0.28	1775.99	606475.53	672683.52	
10492.00	92.55	270.64	8808.05	-9.59	-1869.87	0.23	1869.89	606476.63	672589.61	
10587.00	91.85	270.58	8804.41	-8.58	-1964.79	0.74	1964.80	606477.64	672494.69	
10682.00	92.13	270.63	8801.11	-7.58	-2059.73	0.30	2059.73	606478.64	672399.75	
10776.00	91.08	270.45	8798.47	-6.69	-2153.69	1.13	2153.67	606479.53	672305.79	
10871.00	91.57	270.77	8796.28	-5.68	-2248.66	0.62	2248.63	606480.54	672210.82	
10966.00	91.85	270.92	8793.44	-4.28	-2343.60	0.33	2343.56	606481.94	672115.88	
11061.00	90.31	269.90	8791.65	-3.60	-2438.58	1.94	2438.53	606482.62	672020.90	
11155.00	90.59	270.00	8790.91	-3.69	-2532.58	0.32	2532.53	606482.53	671926.90	
11250.00	89.90	268.57	8790.51	-4.87	-2627.57	1.67	2627.52	606481.35	671831.91	
11344.00	90.17	268.77	8790.45	-7.05	-2721.54	0.36	2721.51	606479.17	671737.94	
11439.00	90.31	269.06	8790.05	-8.85	-2816.52	0.34	2816.50	606477.37	671642.96	
11533.00	90.59	268.89	8789.31	-10.53	-2910.50	0.35	2910.50	606475.69	671548.98	
11628.00	90.73	268.73	8788.22	-12.51	-3005.48	0.22	3005.48	606473.71	671454.00	
11723.00	91.01	268.73	8786.78	-14.61	-3100.44	0.29	3100.46	606471.61	671359.04	
11816.00	91.15	268.37	8785.02	-16.96	-3193.40	0.42	3193.43	606469.26	671266.08	
11911.00	91.86	268.82	8782.53	-19.29	-3288.33	0.88	3288.38	606466.93	671171.15	
12005.00	93.18	269.69	8778.40	-20.51	-3382.23	1.68	3382.29	606465.71	671077.25	
12100.00	91.37	266.78	8774.62	-23.44	-3477.10	3.61	3477.17	606462.78	670982.38	
12195.00	91.85	266.94	8771.96	-28.64	-3571.92	0.53	3572.03	606457.58	670887.56	
12289.00	90.88	266.31	8769.72	-34.17	-3665.73	1.23	3665.88	606452.05	670793.75	
12384.00	91.42	268.04	8767.81	-38.85	-3760.59	1.91	3760.78	606447.37	670698.89	
12478.00	92.06	266.05	8764.96	-43.70	-3854.41	2.22	3854.64	606442.52	670605.07	
12573.00	90.59	267.56	8762.76	-48.99	-3949.24	2.22	3949.50	606437.23	670510.24	



Weatherford International Ltd.
WFT Survey Report X & Y's



Company: Devon Energy	Date: 2/11/2011	Time: 07 36:04	Page: 4
Field: Eddy Co., NM (NAD 83)	Co-ordinate(NE) Reference: Well: Arcturus 18 Fed 1H, Grid North		
Site: Arcturus 18 Fed 1H	Vertical (TVD) Reference: SITE 3466.0		
Well: Arcturus 18 Fed 1H	Section (VS) Reference: Well (0.00N,0.00E,269.54Azi)		
Wellpath: 1	Survey Calculation Method: Minimum Curvature	Db: Sybase	

Survey

MD ft	Incl deg	Azim deg	TVD ft	N/S ft	E/W ft	DLS deg/100ft	VS ft	MapN ft	MapE ft	Comment
12667.00	90.88	267.53	8761.55	-53.02	-4043.14	0.31	4043.44	606433.20	670416.34	
12761.00	90.17	269.51	8760.69	-55.44	-4137.10	2.24	4137.41	606430.78	670322.38	
12856.00	90.59	269.47	8760.06	-56.29	-4232.10	0.44	4232.41	606429.93	670227.38	
12951.00	91.22	269.30	8758.56	-57.31	-4327.08	0.69	4327.40	606428.91	670132.40	
13045.00	91.65	269.38	8756.21	-58.39	-4421.04	0.47	4421.37	606427.83	670038.44	
13140.00	92.20	269.01	8753.02	-59.73	-4515.98	0.70	4516.31	606426.49	669943.50	
13209.00	92.62	269.15	8750.11	-60.83	-4584.91	0.64	4585.25	606425.39	669874.57	Last Wft Svy
13275.00	92.62	269.15	8747.10	-61.81	-4650.83	0.00	4651.18	606424.41	669808.65	Proj. To Bit

Annotation

MD ft	TVD ft	
2254.00	2253.27	Tie On SDI
2314.00	2313.24	First Wft Svy
13209.00	8750.11	Last Wft Svy
13275.00	8747.10	Proj To Bit



Weatherford[®]

Evaluation, Drilling & Intervention
10000 West County Rd. 116
P.O. Box 61028
Midland, TX USA 79711
Tel. (432) 561-8892 Fax (432) 561-8895

Devon Energy
20 North Broadway
Oklahoma City, OK, 73102

Date: February 14, 2011

Attention: Wes Handley

Re: Devon Energy
Well: Arcturus 18 Fed #1H
Eddy County, New Mexico

Enclosed, please find the original survey performed on the referenced well by Precision Energy Services, Inc. (P-5 No. 676004), a Weatherford company. Other information required by your office is as follows:

<u>Name & Title Of Surveyor</u>	<u>Well Number</u>	<u>Surveyed Depths</u>	<u>Dates Performed</u>	<u>Type of Survey</u>
Joe Rivera MWD Supervisor	1H	2314' MD 13209' MD	1/16/2011 2/12/2011	Measurement While Drilling

A notarized plan vs. actual is attached to the survey report. If any other information is required, please contact the undersigned at the letterhead address and phone number.

Luke Schnell
Area Manager

On this, the 14th day of February, 2011, before me a notary public, the undersigned officer, personally appeared Luke Schnell, known to me (or satisfactorily proven) to be the person whose name is subscribed to the within instrument, and acknowledged that he executed the same for the purposes therein contained.

In witness hereof, I hereunto set my hand and official seal.

Notary Public