



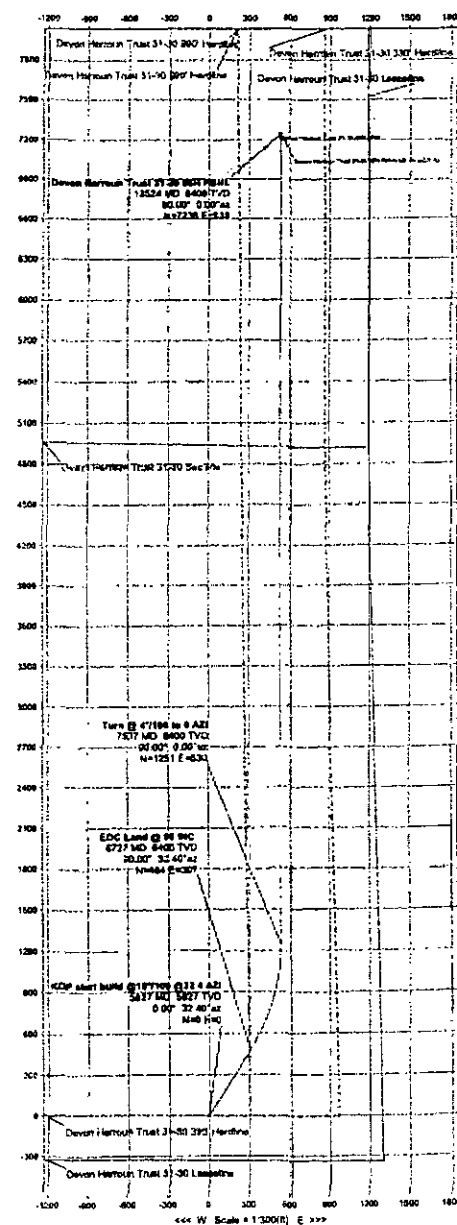
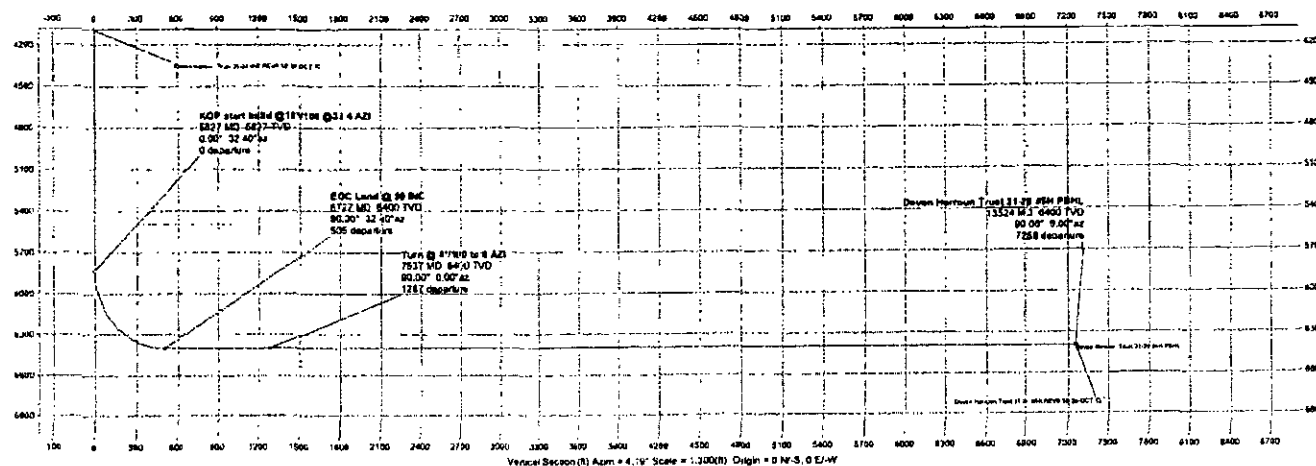
PATHFINDER
A Schlumberger Company

#232		Devon Hancock Trust 31-30 #5H		#232b		NM Eddy County (NAD 83)		#232c	
Map(s): <u>Payson</u> Name: <u>BUMM 7017</u>		Obj.: <u>40(03)*</u> Map Date: <u>7/3/97</u>	UTM: <u>444550 E</u> UTM Zone: <u>18 S</u>	North: <u>17 13 14.80</u> East: <u>30 34 3 9.00</u>		Height: <u>5567.66 M</u> T. Elev: <u>5275.00 M</u>	MGRS: <u>18 S 34 3 9.00</u> UTM Zone: <u>18 S</u>	MGRS: <u>18 S 34 3 9.00</u> UTM Zone: <u>18 S</u>	MGRS: <u>18 S 34 3 9.00</u> UTM Zone: <u>18 S</u>

Oil Conservation Division
Case No. _____
Exhibit No. 14B



Critical Points																
Comments	Survey Wd (m)	Inclin (m/deg)	Alt (m/deg)	TVD (m)	Sub-Sea TVD	VS (ft)	KSP (ft)	EW (ft)	Latitude (deg)	Longitude (deg)	Easting (FUS)	Northing (FUS)	Closure (ft)	Closure Alt (m/deg)	CLS ° 160ft	Tool Face (deg)
Te-in	0.00	0.00	32.40	0.00	-2382.30	0.00	0.00	0.00	N 32 15 12.430 W 104 1 9.999		6380369.30	456677.00	0.00	0.00		32.40
KOP start bore @18719m @32.4 A2	5627.04	0.00	32.40	5627.04	-2944.74	0.00	0.00	0.00	N 32 15 12.430 W 104 1 9.999		6380369.30	456677.00	0.00	0.00	0.00	32.40
EOG Land @ 90 NM	6727.04	90.00	32.40	6400.00	-3417.70	504.69	423.76	397.01	N 32 15 23.208 W 104 1 6.407		636678.28	457171.32	572.95	32.40	10.00	90.00
Turn @ 47100 to GA2	7537.33	97.00	0.00	6400.00	-3417.70	1266.63	1251.27	529.59	N 32 15 30.796 W 104 1 3.784		636889.25	457938.79	1368.54	22.96	4.00	0.00
Dean Harmon Inst 11-30 65H PSH	13623.95	90.00	0.00	6400.00	-3417.70	7257.58	7228.18	536.04	N 32 15 30.037 W 104 1 5.576		636889.90	456765.20	7267.58		4.19	9.00



Drawn By: Sers 888m
 Date Created: October 29, 2012 10:27:41 AM
 Checked By:
 Checked Date:
 Approved By:
 Approved Date:



Devon Harroun Trust 31-30 #5H REV0 SB 26-OCT-12 Proposal Geodetic
Report
(Def Plan)



Report Date: October 26, 2012 - 02:39 PM
Client: Devon
Field: NM Eddy County (NAD 83)
Structure / Slot: Devon Harroun Trust 31-30 #5H / Devon Harroun Trust 31-30 #5H
Well: Devon Harroun Trust 31-30 #5H
Borehole: Original Borehole
U/M / API#: Unknown / Unknown
Survey Name: Devon Harroun Trust 31-30 #5H REV0 SB 26-OCT-12
Survey Date: October 26, 2012
Tort / AHD / DDI / ERD Ratio: 122,399' / 7369.873 ft / 8.280 / 1.152
Coordinate Reference System: NAD83 New Mexico State Plane, Eastern Zone, US Feet
Location Lat / Long: N 32° 15' 18.4359" W 104° 1' 9.9808"
Location Grid N/E Y/X: N 456687.600 NUS, E 638369.300 NUS
CRS Grid Convergence Angle: 0.1875 °
Grid Scale Factor: 0.99991927

Survey / DLS Computation: Minimum Curvature / Lubinski
Vertical Section Azimuth: 4.168 ° (Grid North)
Vertical Section Origin: 0.000 ft, 0.000 ft
TVD Reference Datum: KB
TVD Reference Elevation: 2962.300 ft above
Seabed / Ground Elevation: 2957.300 ft above
Magnetic Declination: 7.729 °
Total Gravity Field Strength: 998.2095 mgn (9.8 based)
Total Magnetic Field Strength: 48435.766 nT
Magnetic Dip Angle: 60.063 °
Declination Date: October 26, 2012
Magnetic Declination Model: BGOM 2012
North Reference: Grid North
Grid Convergence Used: 0.1875 °
Total Cor Mag North->Grid North: 7.5619 °
Local Coord Referenced To: Structure Reference Point

Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS (ft/100ft)	Northing (NUS)	Easting (EUS)	Latitude (N/E ° ' ")	Longitude (W/E ° ' ")
Tie-In	0.00	0.00	32.40	0.00	0.00	0.00	0.00	0.00	456687.60	638369.30	N 32 15 18.43 W 104 1	10.00
	100.00	0.00	32.40	100.00	0.00	0.00	0.00	0.00	456687.60	638369.30	N 32 15 18.43 W 104 1	10.00
	200.00	0.00	32.40	200.00	0.00	0.00	0.00	0.00	456687.60	638369.30	N 32 15 18.43 W 104 1	10.00
	300.00	0.00	32.40	300.00	0.00	0.00	0.00	0.00	456687.60	638369.30	N 32 15 18.43 W 104 1	10.00
	400.00	0.00	32.40	400.00	0.00	0.00	0.00	0.00	456687.60	638369.30	N 32 15 18.43 W 104 1	10.00
	500.00	0.00	32.40	500.00	0.00	0.00	0.00	0.00	456687.60	638369.30	N 32 15 18.43 W 104 1	10.00
	600.00	0.00	32.40	600.00	0.00	0.00	0.00	0.00	456687.60	638369.30	N 32 15 18.43 W 104 1	10.00
	700.00	0.00	32.40	700.00	0.00	0.00	0.00	0.00	456687.60	638369.30	N 32 15 18.43 W 104 1	10.00
	800.00	0.00	32.40	800.00	0.00	0.00	0.00	0.00	456687.60	638369.30	N 32 15 18.43 W 104 1	10.00
	900.00	0.00	32.40	900.00	0.00	0.00	0.00	0.00	456687.60	638369.30	N 32 15 18.43 W 104 1	10.00
	1000.00	0.00	32.40	1000.00	0.00	0.00	0.00	0.00	456687.60	638369.30	N 32 15 18.43 W 104 1	10.00
	1100.00	0.00	32.40	1100.00	0.00	0.00	0.00	0.00	456687.60	638369.30	N 32 15 18.43 W 104 1	10.00
	1200.00	0.00	32.40	1200.00	0.00	0.00	0.00	0.00	456687.60	638369.30	N 32 15 18.43 W 104 1	10.00
	1300.00	0.00	32.40	1300.00	0.00	0.00	0.00	0.00	456687.60	638369.30	N 32 15 18.43 W 104 1	10.00
	1400.00	0.00	32.40	1400.00	0.00	0.00	0.00	0.00	456687.60	638369.30	N 32 15 18.43 W 104 1	10.00
	1500.00	0.00	32.40	1500.00	0.00	0.00	0.00	0.00	456687.60	638369.30	N 32 15 18.43 W 104 1	10.00
	1600.00	0.00	32.40	1600.00	0.00	0.00	0.00	0.00	456687.60	638369.30	N 32 15 18.43 W 104 1	10.00
	1700.00	0.00	32.40	1700.00	0.00	0.00	0.00	0.00	456687.60	638369.30	N 32 15 18.43 W 104 1	10.00
	1800.00	0.00	32.40	1800.00	0.00	0.00	0.00	0.00	456687.60	638369.30	N 32 15 18.43 W 104 1	10.00
	1900.00	0.00	32.40	1900.00	0.00	0.00	0.00	0.00	456687.60	638369.30	N 32 15 18.43 W 104 1	10.00
	2000.00	0.00	32.40	2000.00	0.00	0.00	0.00	0.00	456687.60	638369.30	N 32 15 18.43 W 104 1	10.00
	2100.00	0.00	32.40	2100.00	0.00	0.00	0.00	0.00	456687.60	638369.30	N 32 15 18.43 W 104 1	10.00
	2200.00	0.00	32.40	2200.00	0.00	0.00	0.00	0.00	456687.60	638369.30	N 32 15 18.43 W 104 1	10.00
	2300.00	0.00	32.40	2300.00	0.00	0.00	0.00	0.00	456687.60	638369.30	N 32 15 18.43 W 104 1	10.00
	2400.00	0.00	32.40	2400.00	0.00	0.00	0.00	0.00	456687.60	638369.30	N 32 15 18.43 W 104 1	10.00
	2500.00	0.00	32.40	2500.00	0.00	0.00	0.00	0.00	456687.60	638369.30	N 32 15 18.43 W 104 1	10.00
	2600.00	0.00	32.40	2600.00	0.00	0.00	0.00	0.00	456687.60	638369.30	N 32 15 18.43 W 104 1	10.00
	2700.00	0.00	32.40	2700.00	0.00	0.00	0.00	0.00	456687.60	638369.30	N 32 15 18.43 W 104 1	10.00
	2800.00	0.00	32.40	2800.00	0.00	0.00	0.00	0.00	456687.60	638369.30	N 32 15 18.43 W 104 1	10.00
	2900.00	0.00	32.40	2900.00	0.00	0.00	0.00	0.00	456687.60	638369.30	N 32 15 18.43 W 104 1	10.00
	3000.00	0.00	32.40	3000.00	0.00	0.00	0.00	0.00	456687.60	638369.30	N 32 15 18.43 W 104 1	10.00
	3100.00	0.00	32.40	3100.00	0.00	0.00	0.00	0.00	456687.60	638369.30	N 32 15 18.43 W 104 1	10.00
	3200.00	0.00	32.40	3200.00	0.00	0.00	0.00	0.00	456687.60	638369.30	N 32 15 18.43 W 104 1	10.00
	3300.00	0.00	32.40	3300.00	0.00	0.00	0.00	0.00	456687.60	638369.30	N 32 15 18.43 W 104 1	10.00
	3400.00	0.00	32.40	3400.00	0.00	0.00	0.00	0.00	456687.60	638369.30	N 32 15 18.43 W 104 1	10.00
	3500.00	0.00	32.40	3500.00	0.00	0.00	0.00	0.00	456687.60	638369.30	N 32 15 18.43 W 104 1	10.00
	3600.00	0.00	32.40	3600.00	0.00	0.00	0.00	0.00	456687.60	638369.30	N 32 15 18.43 W 104 1	10.00
	3700.00	0.00	32.40	3700.00	0.00	0.00	0.00	0.00	456687.60	638369.30	N 32 15 18.43 W 104 1	10.00
	3800.00	0.00	32.40	3800.00	0.00	0.00	0.00	0.00	456687.60	638369.30	N 32 15 18.43 W 104 1	10.00
	3900.00	0.00	32.40	3900.00	0.00	0.00	0.00	0.00	456687.60	638369.30	N 32 15 18.43 W 104 1	10.00
	4000.00	0.00	32.40	4000.00	0.00	0.00	0.00	0.00	456687.60	638369.30	N 32 15 18.43 W 104 1	10.00
	4100.00	0.00	32.40	4100.00	0.00	0.00	0.00	0.00	456687.60	638369.30	N 32 15 18.43 W 104 1	10.00
	4200.00	0.00	32.40	4200.00	0.00	0.00	0.00	0.00	456687.60	638369.30	N 32 15 18.43 W 104 1	10.00
	4300.00	0.00	32.40	4300.00	0.00	0.00	0.00	0.00	456687.60	638369.30	N 32 15 18.43 W 104 1	10.00
	4400.00	0.00	32.40	4400.00	0.00	0.00	0.00	0.00	456687.60	638369.30	N 32 15 18.43 W 104 1	10.00
	4500.00	0.00	32.40	4500.00	0.00	0.00	0.00	0.00	456687.60	638369.30	N 32 15 18.43 W 104 1	10.00
	4600.00	0.00	32.40	4600.00	0.00	0.00	0.00	0.00	456687.60	638369.30	N 32 15 18.43 W 104 1	10.00
	4700.00	0.00	32.40	4700.00	0.00	0.00	0.00	0.00	456687.60	638369.30	N 32 15 18.43 W 104 1	10.00
	4800.00	0.00	32.40	4800.00	0.00	0.00	0.00	0.00	456687.60	638369.30	N 32 15 18.43 W 104 1	10.00
	4900.00	0.00	32.40	4900.00	0.00	0.00	0.00	0.00	456687.60	638369.30	N 32 15 18.43 W 104 1	10.00
	5000.00	0.00	32.40	5000.00	0.00	0.00	0.00	0.00	456687.60	638369.30	N 32 15 18.43 W 104 1	10.00
	5100.00	0.00	32.40	5100.00	0.00	0.00	0.00	0.00	456687.60	638369.30	N 32 15 18.43 W 104 1	10.00
	5200.00	0.00	32.40	5200.00	0.00	0.00	0.00	0.00	456687.60	638369.30	N 32 15 18.43 W 104 1	10.00
	5300.00	0.00	32.40	5300.00	0.00	0.00	0.00	0.00	456687.60	638369.30	N 32 15 18.43 W 104 1	10.00
	5400.00	0.00	32.40	5400.00	0.00	0.00	0.00	0.00	456687.60	638369.30	N 32 15 18.43 W 104 1	10.00
	5500.00	0.00	32.40	5500.00	0.00	0.00	0.00	0.00	456687.60	638369.30	N 32 15 18.43 W 104 1	10.00
	5600.00	0.00	32.40	5600.00	0.00	0.00	0.00	0.00	456687.60	638369.30	N 32 15 18.43 W 104 1	10.00
	5700.00	0.00	32.40	5700.00	0.00	0.00	0.00	0.00	456687.60	638369.30	N 32 15 18.43 W 104 1	10.00
	5800.00	0.00	32.40	5800.00	0.00	0.00	0.00	0.00	456687.60	638369.30	N 32 15 18.43 W 104 1	10.00

Comments	MD (")	Incl (°)	Azim Grid (°)	TVD (")	VSEC (")	NS (")	EW (")	DLS ("/100ft)	Northing (ftUS)	Easting (ftUS)	Latitude (N/S ° ' ")	Longitude (E/W ° ' ")
KOP start build @ 10' / 100 @ 32.4 AZI	5827.04	0.00	32.40	5827.04	0.00	0.00	0.00	0.00	458887.60	638369.30	N 32 15 18.43 W 104	1 10.00
	5800.00	7.30	32.40	5899.80	4.09	3.92	2.49	10.00	458691.52	638371.79	N 32 15 18.47 W 104	1 9.97
	6000.00	17.30	32.40	5997.39	22.83	21.86	13.88	10.00	456709.47	638383.18	N 32 15 18.85 W 104	1 9.84
	8100.00	27.30	32.40	8089.79	56.22	53.87	34.19	10.00	456741.46	638403.48	N 32 15 18.98 W 104	1 9.80
	8200.00	37.30	32.40	8174.21	103.24	98.92	62.78	10.00	456788.51	638432.07	N 32 15 19.41 W 104	1 8.20
	8300.00	47.30	32.40	8248.09	182.47	155.67	98.70	10.00	456843.26	638468.08	N 32 15 19.97 W 104	1 8.84
	8400.00	57.30	32.40	8309.17	232.10	222.39	141.13	10.00	456909.97	638510.42	N 32 15 20.83 W 104	1 8.35
	8500.00	67.30	32.40	8355.00	310.02	297.03	188.51	10.00	456984.62	638557.80	N 32 15 21.36 W 104	1 7.79
	8600.00	77.30	32.40	8385.97	393.86	377.38	239.49	10.00	457064.85	638608.77	N 32 15 22.10 W 104	1 7.20
	8700.00	87.30	32.40	8390.36	481.08	480.94	292.52	10.00	457148.50	638681.80	N 32 15 22.86 W 104	1 6.58
EOC Land @ 90 INC	8727.04	90.00	32.40	8400.00	504.89	483.78	307.01	10.00	457171.32	638678.26	N 32 15 23.21 W 104	1 6.41
	8800.00	90.00	29.48	8400.00	570.04	548.34	344.51	4.00	457233.89	638713.79	N 32 15 23.83 W 104	1 5.97
	8900.00	90.00	25.48	8400.00	661.87	635.03	360.85	4.00	457322.58	638759.92	N 32 15 24.70 W 104	1 5.43
	7000.00	90.00	21.48	8400.00	756.23	728.73	430.48	4.00	457414.27	638799.75	N 32 15 25.61 W 104	1 4.96
	7100.00	90.00	17.48	8400.00	852.67	820.99	463.83	4.00	457508.52	638833.09	N 32 15 26.54 W 104	1 4.57
	7200.00	90.00	13.48	8400.00	950.72	917.34	490.52	4.00	457604.87	638859.78	N 32 15 27.49 W 104	1 4.25
	7300.00	90.00	9.48	8400.00	1049.89	1015.32	510.42	4.00	457702.84	638879.88	N 32 15 28.46 W 104	1 4.02
	7400.00	90.00	5.48	8400.00	1149.70	1114.45	523.44	4.00	457801.96	638892.70	N 32 15 29.44 W 104	1 3.86
	7500.00	90.00	1.48	8400.00	1249.67	1214.24	529.51	4.00	457901.74	638898.77	N 32 15 30.43 W 104	1 3.79
Turn @ 4' / 100 to 0 AZI	7537.03	90.00	0.00	8400.00	1288.63	1251.27	529.89	4.00	457938.76	638899.25	N 32 15 30.80 W 104	1 3.78
	7600.00	90.00	0.00	8400.00	1349.44	1314.24	529.99	0.00	458001.73	638899.25	N 32 15 31.42 W 104	1 3.78
	7700.00	90.00	0.00	8400.00	1449.17	1414.24	529.99	0.00	458101.72	638899.25	N 32 15 32.41 W 104	1 3.78
	7800.00	90.00	0.00	8400.00	1548.90	1514.24	529.99	0.00	458201.72	638899.25	N 32 15 33.40 W 104	1 3.77
	7900.00	90.00	0.00	8400.00	1648.64	1614.24	529.99	0.00	458301.71	638899.25	N 32 15 34.39 W 104	1 3.77
	8000.00	90.00	0.00	8400.00	1748.37	1714.24	529.99	0.00	458401.70	638899.25	N 32 15 35.38 W 104	1 3.77
	8100.00	90.00	0.00	8400.00	1848.10	1814.24	529.99	0.00	458501.69	638899.25	N 32 15 36.37 W 104	1 3.78
	8200.00	90.00	0.00	8400.00	1947.83	1914.24	530.00	0.00	458601.68	638899.25	N 32 15 37.36 W 104	1 3.78
	8300.00	90.00	0.00	8400.00	2047.57	2014.24	530.00	0.00	458701.67	638899.25	N 32 15 38.35 W 104	1 3.78
	8400.00	90.00	0.00	8400.00	2147.30	2114.24	530.00	0.00	458801.67	638899.25	N 32 15 39.34 W 104	1 3.75
	8500.00	90.00	0.00	8400.00	2247.03	2214.24	530.00	0.00	458901.66	638899.25	N 32 15 40.33 W 104	1 3.75
	8600.00	90.00	0.00	8400.00	2346.77	2314.24	530.00	0.00	459001.65	638899.25	N 32 15 41.31 W 104	1 3.75
	8700.00	90.00	0.00	8400.00	2446.50	2414.24	530.00	0.00	459101.64	638899.25	N 32 15 42.30 W 104	1 3.74
	8800.00	90.00	0.00	8400.00	2546.23	2514.24	530.00	0.00	459201.63	638899.25	N 32 15 43.29 W 104	1 3.74
	8900.00	90.00	0.00	8400.00	2645.97	2614.24	530.00	0.00	459301.62	638899.25	N 32 15 44.28 W 104	1 3.74
	9000.00	90.00	0.00	8400.00	2745.70	2714.24	530.00	0.00	459401.62	638899.25	N 32 15 45.27 W 104	1 3.73
	9100.00	90.00	0.00	8400.00	2845.43	2814.24	530.00	0.00	459501.61	638899.25	N 32 15 46.26 W 104	1 3.73
	9200.00	90.00	0.00	8400.00	2945.17	2914.24	530.00	0.00	459601.60	638899.25	N 32 15 47.25 W 104	1 3.73
	9300.00	90.00	0.00	8400.00	3044.90	3014.24	530.01	0.00	459701.59	638899.25	N 32 15 48.24 W 104	1 3.72
	9400.00	90.00	0.00	8400.00	3144.63	3114.24	530.01	0.00	459801.58	638899.25	N 32 15 49.23 W 104	1 3.72
	9500.00	90.00	0.00	8400.00	3244.36	3214.24	530.01	0.00	459901.58	638899.25	N 32 15 50.22 W 104	1 3.72
	9600.00	90.00	0.00	8400.00	3344.10	3314.24	530.01	0.00	460001.57	638899.25	N 32 15 51.21 W 104	1 3.71
	9700.00	90.00	0.00	8400.00	3443.83	3414.24	530.01	0.00	460101.56	638899.27	N 32 15 52.20 W 104	1 3.71
	9800.00	90.00	0.00	8400.00	3543.56	3514.24	530.01	0.00	460201.55	638899.27	N 32 15 53.19 W 104	1 3.71
	9900.00	90.00	0.00	8400.00	3643.30	3614.24	530.01	0.00	460301.54	638899.27	N 32 15 54.18 W 104	1 3.70
	10000.00	90.00	0.00	8400.00	3743.03	3714.24	530.01	0.00	460401.53	638899.27	N 32 15 55.17 W 104	1 3.70
	10100.00	90.00	0.00	8400.00	3842.76	3814.24	530.01	0.00	460501.53	638899.27	N 32 15 56.16 W 104	1 3.70
	10200.00	90.00	0.00	8400.00	3942.50	3914.24	530.01	0.00	460601.52	638899.27	N 32 15 57.15 W 104	1 3.69
	10300.00	90.00	0.00	8400.00	4042.23	4014.24	530.01	0.00	460701.51	638899.27	N 32 15 58.14 W 104	1 3.69
	10400.00	90.00	0.00	8400.00	4141.96	4114.24	530.02	0.00	460801.50	638899.27	N 32 15 59.13 W 104	1 3.69
	10500.00	90.00	0.00	8400.00	4241.69	4214.24	530.02	0.00	460901.49	638899.27	N 32 16 0.12 W 104	1 3.68
	10600.00	90.00	0.00	8400.00	4341.43	4314.24	530.02	0.00	461001.49	638899.27	N 32 16 1.10 W 104	1 3.68
	10700.00	90.00	0.00	8400.00	4441.18	4414.24	530.02	0.00	461101.48	638899.27	N 32 16 2.09 W 104	1 3.68
	10800.00	90.00	0.00	8400.00	4540.99	4514.24	530.02	0.00	461201.47	638899.28	N 32 16 3.06 W 104	1 3.67
	10900.00	90.00	0.00	8400.00	4640.63	4614.24	530.02	0.00	461301.46	638899.28	N 32 16 4.07 W 104	1 3.67
	11000.00	90.00	0.00	8400.00	4740.36	4714.24	530.02	0.00	461401.45	638899.28	N 32 16 5.06 W 104	1 3.66
	11100.00	90.00	0.00	8400.00	4840.09	4814.24	530.02	0.00	461501.44	638899.28	N 32 16 6.05 W 104	1 3.66
	11200.00	90.00	0.00	8400.00	4939.83	4914.24	530.02	0.00	461601.44	638899.28	N 32 16 7.04 W 104	1 3.66
	11300.00	90.00	0.00	8400.00	5039.56	5014.24	530.02	0.00	461701.43	638899.28	N 32 16 8.03 W 104	1 3.65
	11400.00	90.00	0.00	8400.00	5139.29	5114.24	530.02	0.00	461801.42	638899.28	N 32 16 9.02 W 104	1 3.65
	11500.00	90.00	0.00	8400.00	5239.02	5214.24	530.03	0.00	461901.41	638899.28	N 32 16 10.01 W 104	1 3.65
	11600.00	90.00	0.00	8400.00	5338.76	5314.24	530.03	0.00	462001.40	638899.28	N 32 16 11.00 W 104	1 3.64
	11700.00	90.00	0.00	8400.00	5438.49	5414.24	530.03	0.00	462101.39	638899.28	N 32 16 11.99 W 104	1 3.64
	11800.00	90.00	0.00	8400.00	5538.22	5514.24	530.03	0.00	462201.39	638899.28	N 32 16 12.98 W 104	1 3.64
	11900.00	90.00	0.00	8400.00	5637.96	5614.24	530.03	0.00	462301.38	638899.29	N 32 16 13.97 W 104	1 3.63
	12000.00	90.00	0.00	8400.00	5737.69	5714.24	530.03	0.00	462401.37	638899.29	N 32 16 14.96 W 104	1 3.63
	12100.00	90.00	0.00	8400.00	5837.42	5814.24	530.03	0.00	462501.36	638899.29	N 32 16 15.95 W 104	1 3.63
	12200.00	90.00	0.00	8400.00	5937.16	5914.24	530.03	0.00	462601.35	638899.29	N 32 16 16.94 W 104	1 3.62
	12300.00	90.00	0.00	8400.00	6036.89	6014.24	530.03	0.00	462701.35	638899.29	N 32 16 17.93 W 104	1 3.62
	12400.00	90.00	0.00	8400.00	6136.62	6114.24	530.03	0.00	462801.34	638899.29	N 32 16 18.92 W 104	1 3.62
	12500.00	90.00	0.00	8400.00	6236.35	6214.24	530.03	0.00	462901.33	638899.29	N 32 16 19.91 W 104	1 3.61
	12600.00	90.00	0.00	8400.00	6336.09	6314.24	530.04	0.00	463001.32	638899.29	N 32 16 20.90 W 104	1 3.61
	12700.00	90.00	0.00	8400.00	6435.82	6414.24	530.04	0.00	463101.31	638899.29	N 32 16 21.88 W 104	1 3.61
	12800.00	90.00	0.00	8400.00	6535.55	6514.24	530.04	0.00	463201.30	638899.29	N 32 16 22.87 W 104	1 3.60
	12900.00	90.00	0.00	8400.00	6635.29	6614.24	530.04	0.00	463301.30	638899.29	N 32 16 23.86 W 104	1 3.60
	13000.00	90.00	0.00	8400.00	6735.02	6714.24	530.04	0.00	463401.28	638899.30	N 32 16 24.85 W 104	1 3.60
	13100.00	90.00	0.00	8400.00	6834.75	6814.24	530.04	0.00	463501.28	638899.30	N 32 16 25.84 W 104	1 3.59
	13200.00	90.00	0.00	8400.00	6934.49	6914.24	530.04	0.00	463601.27	638899.30	N 32 16 26.83 W 104	1 3.

Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS (°/100ft)	Northing (ftUS)	Easting (ftUS)	Latitude (N/S ° ' ")	Longitude (E/W ° ' ")
Devon Harroun Trust 31-30 #5H	13500.00	90.00	0.00	8400.00	7233.68	7214.24	530.04	0.00	463901.25	638899.30	N 32 16 29.80	W 104 1 3.58
PERL	13523.95	90.00	0.00	8400.00	7257.58	7238.19	530.04	0.00	463925.20	638899.30	N 32 16 30.04	W 104 1 3.58

Survey Type: Def Plan

Survey Error Model: ISCWSA Rev 0 *** 3-D 95.000% Confidence 2.7955 sigma
Survey Program:

Description	MD From (ft)	MD To (ft)	EOU Freq (ft)	Hole Size (in)	Casing Diameter (in)	Survey Tool Type	Borehole / Survey
	0.000	25.000	1/100.000	30.000	30.000	SLB_MWD-STD-Depth Only	Original Borehole / Devon Harroun Trust 31-30 #5H REV0
	25.000	13523.955	1/100.000	30.000	30.000	SLB_MWD-STD	Original Borehole / Devon Harroun Trust 31-30 #5H REV0



Devon Harroun Trust 31-30 #5H REV0 SB 26-OCT-12 Anti-Collision Summary Report

Analysis Date/Time: October 26, 2012 - 15:00
Client: Devon
Field: NM Eddy County (NAD 83)
Structure: Devon Harroun Trust 31-30 #5H
Shot: Devon Harroun Trust 31-30 #5H
Well: Devon Harroun Trust 31-30 #5H
Borehole: Original Borehole

Analysis Method: 3D Least Distance
Reference Trajectory: Devon Harroun Trust 31-30 #5H REV0 SB 26-OCT-12 (Def Plan)
Depth Interval: Every 10.00 Measured Depth (ft)
Rule Set: O&M Anti-Collision Standard 5002 v6 1/5.2
Min Pts: All local minima indicated.

Offset Selection Criteria

Wellhead distance scan:
Selection filters

Global within 54534.45 ft
Definitive Surveys - Definitive Plans - Definitive surveys exclude definitive plans
All Non-Def Surveys when no Def-Survey is set in a borehole - All Non-Def Plans when no Def-Plan is set in a borehole

Offset Trajectories Summary

Offset Trajectory	Separation			Allow	Sep	Controlling	Reference Trajectory		Risk Level			Alert	Status
	CS-Cl (ft)	MAS (ft)	EOU (ft)				MD (ft)	TVD (ft)	Alert	Minor	Major		
Chevron Satal AV 26-24 Plot Oyo (Def Survey)													
13065.22	32.81	13062.05	13032.43	438702.94	MAS = 10.00 (m)		0.00	0.00				Pass	
13064.02	32.81	13059.75	13021.21	7514.47	MAS = 10.00 (m)		440.00	440.00				MinPts	
13064.32	32.81	13059.45	13021.51	5726.13	MAS = 10.00 (m)		500.00	500.00				MINPT-O-EQU	
13025.12	32.81	13038.91	13022.31	851.58	MAS = 10.00 (m)		3540.00	3540.00				MinPts	
13025.80	32.81	13038.17	13022.99	751.73	MAS = 10.00 (m)		4030.00	4030.00				MINPT-O-EQU	
13023.14	41.48	13044.84	13081.88	524.63	OSF 1.50		5050.00	5048.99				MinPts-CICI	
13023.15	41.54	13044.81	13081.81	523.82	OSF 1.50		5080.00	5088.98				MINPT-O-EQU	
13023.18	41.80	13044.81	13081.50	523.02	OSF 1.50		5070.00	5069.98				MinPts-OADP	
13114.88	170.98	13033.86	12947.74	118.78	OSF 1.50		11480.00	8400.00				MinPts-CICI	
13121.30	178.83	13031.24	12942.47	111.80	OSF 1.50		11750.00	8400.00				MINPT-O-EQU	
13124.83	182.73	13031.88	12941.78	109.20	OSF 1.50		11680.00	8400.00				MinPts-OADP	
13275.62	230.68	13120.88	13044.73	87.17	OSF 1.50		13523.95	8400.00				MinPts-O-SF	
Chevron Satal AV 26-24 BTOI generated DE to 11000R (Def Survey)													
13065.22	32.81	13062.05	13032.43	438702.94	MAS = 10.00 (m)		0.00	0.00				Pass	
13064.02	32.81	13059.75	13021.21	7514.47	MAS = 10.00 (m)		440.00	440.00				MinPts	
13064.32	32.81	13059.45	13021.51	5726.13	MAS = 10.00 (m)		500.00	500.00				MINPT-O-EQU	
13025.12	32.81	13038.91	13022.31	851.58	MAS = 10.00 (m)		3540.00	3540.00				MinPts	
13025.80	32.81	13038.17	13022.99	751.73	MAS = 10.00 (m)		4030.00	4030.00				MINPT-O-EQU	
13023.14	41.33	13050.21	13082.26	508.20	OSF 1.50		5030.00	5030.00				MinPts-CICI	
13023.15	41.36	13050.18	13082.22	505.97	OSF 1.50		5040.00	5040.00				MINPT-O-EQU	
13023.18	41.43	13050.19	13082.20	524.56	OSF 1.50		5050.00	5048.99				MinPts-OADP	
13127.30	171.11	13012.30	12950.18	116.76	OSF 1.50		11500.00	8400.00				MinPts-CICI	
13128.68	178.98	13010.21	12950.88	111.58	OSF 1.50		11780.00	8400.00				MINPT-O-EQU	
13135.37	183.20	13010.41	12950.18	109.00	OSF 1.50		11800.00	8400.00				MinPts-OADP	
13182.58	208.12	13042.53	12979.73	96.82	OSF 1.50		12710.00	8400.00				MinPts	
13222.45	225.14	13071.23	12998.41	88.88	OSF 1.50		13220.00	8400.00				MinPts	
13248.55	238.60	13088.58	13010.80	80.14	OSF 1.50		13523.95	8400.00				MinPts-O-SF	
Chevron Pardu Farms 26-3 Oyo DE to 8058R (Def Survey)													
15135.36	32.81	15132.78	15102.55	174873.79	MAS = 10.00 (m)		0.00	0.00				Pass	
15059.88	50.59	15025.03	15008.00	469.70	OSF 1.50		6070.00	6062.78				MinPts-CICI	
15059.71	60.92	15024.93	15008.79	468.44	OSF 1.50		6140.00	6124.67				MINPT-O-EQU	
15059.83	51.07	15024.95	15008.78	466.00	OSF 1.50		6170.00	6148.88				MinPts-OADP	
13185.11	238.12	13028.86	12948.80	84.64	OSF 1.50		13523.95	8400.00				MinPts	
Chevron Pardu Farms 26-4 Gyo OI to 8150R (Def Survey)													
15024.82	32.81	15032.34	15012.08	333665.95	MAS = 10.00 (m)		0.00	0.00				Pass	
15085.88	32.81	15084.33	15063.27	834.17	MAS = 10.00 (m)		3670.00	3670.00				MinPts	
15085.01	32.81	15083.62	15063.22	807.00	MAS = 10.00 (m)		3550.00	3550.00				MinPts	
15086.20	32.81	15083.62	15063.32	751.08	MAS = 10.00 (m)		3980.00	3980.00				MINPT-O-EQU	
15086.48	32.94	15083.68	15063.33	782.59	OSF 1.50		4020.00	4020.00				MinPts-OADP	
15086.59	33.03	15083.74	15063.34	780.24	OSF 1.50		4040.00	4040.00				MinPts-O-SF	
15086.68	33.42	15083.49	15063.05	793.47	OSF 1.50		4210.00	4210.00				MINPT-O-EQU	
15087.17	34.21	15083.52	15063.84	791.43	OSF 1.50		4300.00	4300.00				MinPts-OADP	
15088.27	36.94	15083.81	15061.31	691.78	OSF 1.50		4880.00	4880.00				MINPT-O-EQU	
15088.08	38.08	15082.89	15051.04	810.37	OSF 1.50		5110.00	5110.00				MINPT-O-EQU	
15088.64	38.72	15082.88	15050.22	807.84	OSF 1.50		5230.00	5230.00				MinPts-OADP	
13296.86	234.42	13121.55	13034.43	86.14	OSF 1.50		13523.95	8400.00				MinPts	
Chevron Pardu Farms 26-2 Indication Only OI to 8777R (Def Survey)													
16878.08	32.81	16868.73	16846.27	2432.08	MAS = 10.00 (m)		0.00	0.00				Pass	
14181.57	237.20	14022.44	13844.37	80.80	OSF 1.50		13523.95	8400.00				Surface	
Chevron Pardu Farms AV 26-1H Gyo-MVD OI to 9273R (Def Survey)													
16182.02	95.72	16137.37	16098.30	280.31	OSF 1.50		0.00	0.00				Pass	
14806.88	108.85	14733.07	14698.04	211.30	OSF 1.50		5050.00	5046.08				Surface	
14806.90	108.88	14733.05	14698.02	211.26	OSF 1.50		5000.00	5000.00				MinPts-CICI	
14293.58	208.58	14154.38	14088.95	105.04	OSF 1.50		11700.00	8400.00				MinPts	
14293.84	213.42	14152.73	14082.42	101.85	OSF 1.50		11900.00	8400.00				MINPT-O-EQU	
14287.04	215.00	14152.87	14082.04	100.90	OSF 1.50		12000.00	8400.00				MinPts	
14289.15	208.92	14158.04	14090.24	103.88	OSF 1.50		12100.00	8400.00				MinPts-OADP	
14348.04	230.00	14188.87	14113.04	93.34	OSF 1.50		13080.00	8400.00				MinPts-O-SF	
14378.00	244.02	14215.48	14134.98	89.20	OSF 1.50		13523.95	8400.00				MinPts-O-SF	
Chevron Satal BC 26-1H Rev0 mrc 3-Apr-12 (Def Plan)													
14886.88	32.81	14884.06	14855.86	147387.38	MAS = 10.00 (m)		0.00	0.00				Pass	
14886.88	50.73	14850.01	14831.93	411.73	OSF 1.50		5827.04	5827.04				Surface	
14886.64	58.85	14848.98	14831.84	410.05	OSF 1.50		5840.00	5840.00				MinPts-CICI	
14886.76	38.94	14848.98	14831.82	410.18	OSF 1.50		5860.00	5848.99				MINPT-O-EQU	
14444.88	178.18	14325.95	14268.78	123.31	OSF 1.50		11580.00	8400.00				MinPts	
14447.88	186.78	14322.30	14261.07	117.58	OSF 1.50		11670.00	8400.00				MINPT-O-EQU	
14451.33	180.84	14323.21	14260.40	115.02	OSF 1.50		12010.00	8400.00				MinPts	
14575.00	238.04	14417.47	14339.88	84.00	OSF 1.50		13523.95	8400.00				MinPts-O-SF	

Offset Trajectory	Separation			Allow	Sep. Fact.	Controlling Rule	Reference Trajectory		Risk Level			Alert	Status
	CS-01 (ft)	MAS (ft)	EOU (ft)				Dev. (ft)	MD (ft)	TVD (ft)	Alert	Minor		
Chevron Seifert BC 26-1H STD1 Rev0 mcs3-Apr-12 (Non-Def Plan)													
14896.00	32.81	14898.08	14855.86	147387.28	MAS = 10.00 (m)		0.00	0.00					Pass
14896.00	53.02	14892.48	14830.84	441.08	OSF 1.50		5430.00	5430.00					Surface
14896.76	53.36	14892.34	14835.30	430.10	OSF 1.50		5400.00	5400.00					MinPs-CIC1
14896.87	53.50	14892.37	14835.37	437.81	OSF 1.50		5520.00	5520.00					MinPs-C-ADP
14465.22	179.56	14344.88	14285.67	122.53	OSF 1.50		11670.00	6400.00					MinPs-CIC1
14466.50	189.19	14341.34	14278.30	116.23	OSF 1.50		11980.00	6400.00					MinPs-C-ADP
14472.76	194.33	14342.38	14278.45	113.15	OSF 1.50		12180.00	6400.00					MinPs-C-ADP
14506.04	237.46	14306.80	14318.58	92.81	OSF 1.50		13523.95	6400.00					MinPs-C-SF
Chevron Perdus Fenne AV 26-1H Gyro-Log Only DR to 13100R (Def Survey)													
16204.18	32.81	16201.23	16271.37	35908.41	MAS = 10.00 (m)		0.00	0.00					Pass
16231.00	43.21	16201.88	16186.30	588.14	OSF 1.50		4780.00	4780.00					Surface
16231.63	44.26	16201.18	16187.25	582.82	OSF 1.50		4870.00	4870.00					MinPs-CIC1
16231.85	44.80	16200.90	16186.66	578.62	OSF 1.50		5070.00	5070.00					MinPs-C-EDU
16231.36	46.24	16197.70	16182.13	621.04	OSF 1.50		5680.00	5686.98					MinPs-CIC1
16231.48	46.84	16197.50	16181.64	616.58	OSF 1.50		5833.00	5828.45					MinPs-C-EDU
16231.81	46.79	16197.59	16181.62	614.66	OSF 1.50		5900.00	5908.81					MinPs-C-ADP
16237.23	53.30	16200.83	16183.80	478.93	OSF 1.50		6330.00	6297.85					MinPs-C-ADP
14477.54	237.77	14318.20	14239.77	92.29	OSF 1.50		13523.95	6400.00					MinPs
Survey-Chevron Heritage 2-15 #1H Gyro-MWD DR to 12300R (Def Survey)													
23686.86	32.81	23679.86	23694.09	3670.61	MAS = 10.00 (m)		0.00	0.00					Pass
23684.67	73.23	23634.98	23611.30	508.61	OSF 1.50		870.00	870.00					Surface
23685.90	82.56	23630.02	23603.34	449.34	OSF 1.50		1240.00	1240.00					MinPs-CIC1
23646.77	104.02	23618.50	23704.75	187.57	OSF 1.50		3680.00	3680.00					MinPs
23646.77	193.78	23618.74	23704.90	187.81	OSF 1.50		3710.00	3710.00					MinPs-CIC1
20318.40	514.44	19973.85	19903.06	56.78	OSF 1.50		13523.95	6400.00					MinPs
Chevron Heritage 2-15 #1H Gyro DR to 8440R MD (Def Survey)													
23686.86	32.81	23679.86	23694.09	3670.61	MAS = 10.00 (m)		0.00	0.00					Pass
23684.67	73.23	23634.98	23611.30	508.61	OSF 1.50		870.00	870.00					Surface
23685.90	82.56	23630.02	23603.34	449.34	OSF 1.50		1240.00	1240.00					MinPs-CIC1
23646.77	104.02	23618.50	23704.75	187.57	OSF 1.50		3680.00	3680.00					MinPs
23646.77	193.78	23618.74	23704.90	187.81	OSF 1.50		3710.00	3710.00					MinPs-CIC1
20327.46	519.23	19999.73	19918.26	59.28	OSF 1.50		13523.95	6400.00					MinPs
Chevron Hymeyer A-3 Offset Inclination only DR to 8450R (Def Survey)													
20242.86	32.81	20240.07	20210.06	70285.73	MAS = 10.00 (m)		0.00	0.00					Pass
21343.10	1258.00	20504.12	20086.19	29.53	OSF 1.50		13523.95	6400.00					MinPs
Chevron Hymeyer 1 Offset Gyro DR to 9000R (Def Survey)													
25972.00	32.81	25969.32	25939.19	142223.71	MAS = 10.00 (m)		0.00	0.00					Pass
21626.06	214.08	21481.86	21412.00	154.78	OSF 1.50		13523.95	6400.00					Surface
Chevron Hymeyer A-3 Offset Inclination only DR to 8140R (Def Survey)													
28128.63	32.81	28125.70	28095.82	81046.83	MAS = 10.00 (m)		0.00	0.00					Pass
28143.72	82.01	28101.54	28081.70	858.66	OSF 1.50		1310.00	1310.00					MinPs
21878.66	1103.74	21130.29	20773.21	29.87	OSF 1.50		13523.95	6400.00					MinPs-C-EDU
Chevron Heritage 2-15 #2H Rev1 MDT 10-OCT-12 (Def Plan)													
25263.58	32.81	25260.06	25220.77	202248.12	MAS = 10.00 (m)		0.00	0.00					Pass
21838.10	238.60	21782.14	21707.41	146.74	OSF 1.50		13523.95	6400.00					Surface
Chevron Hymeyer A-1 Offset Inclination Only DR to 8380R (Def Survey)													
27057.80	32.81	27054.85	27024.86	50842.23	MAS = 10.00 (m)		0.00	0.00					Pass
22005.00	863.17	22085.21	21802.74	40.00	OSF 1.50		13523.95	6400.00					MinPs
Chesapeake PLU Big Erika 28 Falsified 1H Rev0 LOH 23-Sep-08 (Def Plan)													
30833.13	107.36	30659.85	30825.78	581.54	OSF 1.50		0.00	0.00					Pass
38929.62	114.04	30620.53	38792.78	843.74	OSF 1.50		5880.00	5886.87					Surface
44833.22	155.47	44826.74	44777.79	440.56	OSF 1.50		13523.95	6400.00					MinPs
Southeastern Carbide 11 3H Rev0 LOH 11-Nov-03 (Non-Def Plan)													
42600.11	32.81	42786.56	42787.30	41707.08	MAS = 10.00 (m)		0.00	0.00					Pass
42600.11	46.25	42787.11	42751.88	1403.31	OSF 1.50		4730.00	4730.00					Surface
42600.33	48.86	42786.90	42751.43	1383.70	OSF 1.50		4870.00	4870.00					MinPs-CIC1
43600.58	48.17	42786.94	42751.39	1375.80	OSF 1.50		4930.00	4830.00					MinPs-C-ADP
45070.23	122.74	42887.57	42847.49	612.11	OSF 1.50		13523.95	6400.00					MinPs-C-SF
Survey Qxy Devon 8 Fee 2H Gyro-MWD DR to 12121R (Def Survey)													
46450.48	32.81	46447.25	46417.87	66287.44	MAS = 10.00 (m)		0.00	0.00					Pass
46448.36	32.81	46445.36	46418.54	32443.32	MAS = 10.00 (m)		360.00	360.00					Surface
46433.09	32.81	46419.80	46400.28	4442.60	MAS = 10.00 (m)		2240.00	2240.00					MinPs
46433.50	32.81	46418.22	46400.75	4092.56	MAS = 10.00 (m)		2470.00	2470.00					MinPs-C-EDU
46433.60	32.81	46418.22	46400.75	4078.42	MAS = 10.00 (m)		2480.00	2480.00					MinPs-C-SF
46433.11	32.81	46418.06	46400.30	3413.32	MAS = 10.00 (m)		2980.00	2980.00					MinPs
46434.12	32.81	46415.50	46401.31	3020.68	MAS = 10.00 (m)		3530.00	3530.00					MinPs-C-EDU
46436.38	32.81	46413.09	46402.55	2736.25	MAS = 10.00 (m)		3990.00	3990.00					MinPs-C-EDU
46441.85	34.80	46417.30	46406.75	2242.41	OSF 1.50		4920.00	4920.00					MinPs-C-ADP
46448.89	39.88	46419.80	46407.21	1954.45	OSF 1.50		5610.00	5610.00					MinPs-C-ADP
46462.18	45.53	46401.00	46398.09	1707.39	OSF 1.50		6050.00	6398.07					MinPs-C-SF
54989.21	108.98	54911.72	54878.23	774.57	OSF 1.50		13523.95	6400.00					MinPs-C-SF