

Highlands Natural Resources			
Location	DJ Basin Southern Extension	Slot	Hagar 5-64 15-16-1BHZ
Field	DJ Basin Southern Extension	Well	W Hagar 5-64 15-16-1BHZ
Installation	HNR Arapahoe County Pad Updated 7-14-2017_AJS	Wellbore	W Hagar 5-64 15-16-1BHZ (PWB)

Slot Hagar 5-64 15-16-1BHZ

Well W Hagar 5-64 15-16-1BHZ

Wellbore W Hagar 5-64 15-16-1BHZ (PWB)

East (Feet) ->

[illegible]

1600

III Hager 5-64 15-16-18a2 (P+D)

<- North(Feet) Scale 1 cm = 800 ft

scale 1 cm = 800 ft

Point	MD	Inc	Azi	TVD	North	East	deg/100ft	V. Sect
Tie on	26.00	0.00	0.00	26.00	S 0.00	W 0.00		-0.00
KOP	1400.00	0.00	161.16	1400.00	S 0.00	W 0.00	0.00	-0.00
End of Build	1893.09	11.83	161.16	1889.60	S 48.02	E 16.39	2.40	-10.86
End of Hold	7311.14	11.83	161.16	7192.48	S 1099.62	E 375.24	0.00	-248.59
Target W Haga...Z - T1	8205.57	90.04	270.43	7764.00	S 1208.67	W 170.34	10.50	305.82
T.D. & Target W H...BHL	18019.96	90.04	270.43	7758.00	S 1135.40	W 9984.46	0.00	10048.81

Scale 1 cm = 400 ft

<- True Vertical Depth (Feet)

W Hagar 5-64 15-16-1BHZ - BHL

N
GRID

Mar-2-2017
 EMM-2015 [2000.0-2020.0] Dip: 66.54 deg Field: 52124.9 nT
 Lat: N39 36 53.6940 Long: W104 31 51.5676 Elev: 5934.00 ft
 Magnetic North is 8.60 deg East of True North
 GRID North is 0.61 deg East of True North
 To correct azimuth from True to GRID subtract 0.61 deg
 To correct azimuth from Magnetic to GRID add 7.99 deg

Created by	admin
Date plotted	19-Jul-2017

Plot reference is W Hagar 5-64 15-16-1BHZ (PWB).
Ref wellpath is W Hagar 5-64 15-16-1BHZ (PWP#1).
Coordinates are in Feet reference Hagar 5-64 15-16-1BHZ.
True Vertical Depths are reference Rig Datum.
Measured Depths are reference Rig Datum.
Rig Datum: Planned Datum #1
Rig Datum to Mean Sea Level: 5960.00 ft.
Plot North is aligned to GRID North.

in Stage 5-6: 15-16-18x2 (P/VV)

3200 4000 4800 5600 6400
Vertical Section (Feet) ->

Azimuth 263.51 with reference 0.00 N, 0.00 E from Hagar 5-64 15-16-1BHZ



SYSDRILL
Well Design Combined Report
Wellbore: W Hagar 5-64 15-16-1BHZ (PWB)



Wellhead Details							
Name	Latitude	Longitude	Northing	Easting	North	East	Slot Elevation Above Ground
Hagar 5-64 15-16-1BHZ	N39 36 51.5205	W104 31 51.6202	1650097.1519	3272985.8389	219.96S	1.77W	0.00

Declination		
Date	Source	Time
Mar-2-2017	EMM-2015 [2000.0-2020.0]	14:57

Installation Details						
Name	Installation Position (Latitude)	Installation Position (Longitude)	Northing	Easting	Coord System Name	North Alignment
HNR Arapahoe County Pad Updated 7-14-2017_AJS	N39 36 53.6940	W104 31 51.5676	1650317.1047	3272987.6089	CO83-CF on NORTH AMERICAN DATUM 1983 datum	Grid

Summary Wellpath									
MD[ft]	Inc[deg]	Azi[deg]	TVD[ft]	North[ft]	East[ft]	Dogleg [deg/100ft]	Vertical Section[ft]	Northing	Easting
26.00	0.00	0.000	26.00	0.00N	0.00E		0.00	1650097.15	3272985.84
1400.00	0.00	161.160	1400.00	0.00N	0.00E	==>	0.00	1650097.15	3272985.84
1893.09	11.83	161.160	1889.60	48.02S	16.39E	2.40	-10.86	1650049.13	3273002.23
7311.14	11.83	161.160	7192.48	1099.62S	375.24E	==>	-248.59	1648997.56	3273361.07
8205.57	90.04	270.430	7764.00	1208.67S	170.34W	10.50	305.82	1648888.52	3272815.50
18019.96	90.04	270.430	7758.00	1135.40S	9984.46W	==>	10048.81	1648961.78	3263001.64

Interpolated Wellpath								
MD[ft]	Inc[deg]	Azi[deg]	TVD[ft]	North[ft]	East[ft]	Dogleg [deg/100ft]	Vertical Section[ft]	All Station Comments
0.00	0.00	0.000	0.00	0.00N	0.00E		0.00	Rig Datum
26.00	0.00	0.000	26.00	0.00N	0.00E	==>	0.00	Slot Datum
100.00	0.00	0.000	100.00	0.00N	0.00E	==>	0.00	
200.00	0.00	0.000	200.00	0.00N	0.00E	==>	0.00	
300.00	0.00	0.000	300.00	0.00N	0.00E	==>	0.00	
400.00	0.00	0.000	400.00	0.00N	0.00E	==>	0.00	
500.00	0.00	0.000	500.00	0.00N	0.00E	==>	0.00	
600.00	0.00	0.000	600.00	0.00N	0.00E	==>	0.00	
700.00	0.00	0.000	700.00	0.00N	0.00E	==>	0.00	
800.00	0.00	0.000	800.00	0.00N	0.00E	==>	0.00	
900.00	0.00	0.000	900.00	0.00N	0.00E	==>	0.00	
1000.00	0.00	0.000	1000.00	0.00N	0.00E	==>	0.00	
1100.00	0.00	0.000	1100.00	0.00N	0.00E	==>	0.00	
1200.00	0.00	0.000	1200.00	0.00N	0.00E	==>	0.00	
1300.00	0.00	0.000	1300.00	0.00N	0.00E	==>	0.00	
1400.00	0.00	161.160	1400.00	0.00N	0.00E	==>	0.00	
1500.00	2.40	161.160	1499.97	1.98S	0.68E	2.40	-0.45	
1600.00	4.80	161.160	1599.77	7.92S	2.70E	2.40	-1.79	
1700.00	7.20	161.160	1699.21	17.82S	6.08E	2.40	-4.03	
1800.00	9.60	161.160	1798.13	31.64S	10.80E	2.40	-7.15	
1900.00	11.83	161.160	1896.35	49.36S	16.85E	==>	-11.16	
2000.00	11.83	161.160	1994.23	68.77S	23.47E	==>	-15.55	
2100.00	11.83	161.160	2092.10	88.18S	30.09E	==>	-19.94	
2200.00	11.83	161.160	2189.98	107.59S	36.71E	==>	-24.32	
2300.00	11.83	161.160	2287.85	127.00S	43.34E	==>	-28.71	
2400.00	11.83	161.160	2385.73	146.41S	49.96E	==>	-33.10	
2500.00	11.83	161.160	2483.60	165.82S	56.58E	==>	-37.49	
2600.00	11.83	161.160	2581.48	185.23S	63.21E	==>	-41.87	
2700.00	11.83	161.160	2679.35	204.64S	69.83E	==>	-46.26	
2800.00	11.83	161.160	2777.23	224.05S	76.45E	==>	-50.65	
2900.00	11.83	161.160	2875.10	243.46S	83.08E	==>	-55.04	
3000.00	11.83	161.160	2972.97	262.87S	89.70E	==>	-59.43	

All data is in Feet unless otherwise stated
Coordinates are from Slot MD's are from Rig (Planned Datum #1 5960.0ft above Mean Sea Level)
Vertical Section is from 0.00N 0.00E on azimuth 263.510 degrees
Bottom hole distance is 10048.81 Feet on azimuth 263.51 degrees from Wellhead
Calculation method uses Minimum Curvature method
Prepared by Integrated Petroleum Technologies, Inc.
Date Printed: 19-Jul-2017



SYS DRILL
Well Design Combined Report
Wellbore: W Hagar 5-64 15-16-1BHZ (PWB)



Interpolated Wellpath								
MD[ft]	Inc[deg]	Azi[deg]	TVD[ft]	North[ft]	East[ft]	Dogleg [deg/100ft]	Vertical Section[ft]	All Station Comments
3100.00	11.83	161.160	3070.85	282.27S	96.32E	==>	-63.81	
3200.00	11.83	161.160	3168.72	301.68S	102.95E	==>	-68.20	
3300.00	11.83	161.160	3266.60	321.09S	109.57E	==>	-72.59	
3400.00	11.83	161.160	3364.47	340.50S	116.19E	==>	-76.98	
3500.00	11.83	161.160	3462.35	359.91S	122.82E	==>	-81.36	
3600.00	11.83	161.160	3560.22	379.32S	129.44E	==>	-85.75	
3700.00	11.83	161.160	3658.10	398.73S	136.06E	==>	-90.14	
3800.00	11.83	161.160	3755.97	418.14S	142.69E	==>	-94.53	
3900.00	11.83	161.160	3853.84	437.55S	149.31E	==>	-98.92	
4000.00	11.83	161.160	3951.72	456.96S	155.93E	==>	-103.30	
4100.00	11.83	161.160	4049.59	476.37S	162.56E	==>	-107.69	
4200.00	11.83	161.160	4147.47	495.78S	169.18E	==>	-112.08	
4300.00	11.83	161.160	4245.34	515.18S	175.80E	==>	-116.47	
4400.00	11.83	161.160	4343.22	534.59S	182.43E	==>	-120.85	
4500.00	11.83	161.160	4441.09	554.00S	189.05E	==>	-125.24	
4600.00	11.83	161.160	4538.97	573.41S	195.67E	==>	-129.63	
4700.00	11.83	161.160	4636.84	592.82S	202.29E	==>	-134.02	
4800.00	11.83	161.160	4734.71	612.23S	208.92E	==>	-138.40	
4900.00	11.83	161.160	4832.59	631.64S	215.54E	==>	-142.79	
5000.00	11.83	161.160	4930.46	651.05S	222.16E	==>	-147.18	
5100.00	11.83	161.160	5028.34	670.46S	228.79E	==>	-151.57	
5200.00	11.83	161.160	5126.21	689.87S	235.41E	==>	-155.96	
5300.00	11.83	161.160	5224.09	709.28S	242.03E	==>	-160.34	
5400.00	11.83	161.160	5321.96	728.69S	248.66E	==>	-164.73	
5500.00	11.83	161.160	5419.84	748.10S	255.28E	==>	-169.12	
5600.00	11.83	161.160	5517.71	767.50S	261.90E	==>	-173.51	
5700.00	11.83	161.160	5615.59	786.91S	268.53E	==>	-177.89	
5800.00	11.83	161.160	5713.46	806.32S	275.15E	==>	-182.28	
5900.00	11.83	161.160	5811.33	825.73S	281.77E	==>	-186.67	
6000.00	11.83	161.160	5909.21	845.14S	288.40E	==>	-191.06	
6100.00	11.83	161.160	6007.08	864.55S	295.02E	==>	-195.45	
6200.00	11.83	161.160	6104.96	883.96S	301.64E	==>	-199.83	
6300.00	11.83	161.160	6202.83	903.37S	308.27E	==>	-204.22	
6400.00	11.83	161.160	6300.71	922.78S	314.89E	==>	-208.61	
6500.00	11.83	161.160	6398.58	942.19S	321.51E	==>	-213.00	
6600.00	11.83	161.160	6496.46	961.60S	328.14E	==>	-217.38	
6700.00	11.83	161.160	6594.33	981.01S	334.76E	==>	-221.77	
6800.00	11.83	161.160	6692.20	1000.41S	341.38E	==>	-226.16	
6900.00	11.83	161.160	6790.08	1019.82S	348.01E	==>	-230.55	
7000.00	11.83	161.160	6887.95	1039.23S	354.63E	==>	-234.94	
7100.00	11.83	161.160	6985.83	1058.64S	361.25E	==>	-239.32	
7200.00	11.83	161.160	7083.70	1078.05S	367.87E	==>	-243.71	
7300.00	11.83	161.160	7181.58	1097.46S	374.50E	==>	-248.10	
7400.00	12.43	206.610	7279.55	1116.84S	373.89E	10.50	-245.31	
7500.00	19.40	236.250	7375.81	1135.74S	355.21E	10.50	-224.61	
7600.00	28.56	249.110	7467.14	1153.54S	318.97E	10.50	-186.59	
7700.00	38.38	255.960	7550.48	1169.64S	266.37E	10.50	-132.51	
7800.00	48.44	260.320	7623.05	1183.50S	199.19E	10.50	-64.19	
7900.00	58.63	263.490	7682.42	1194.66S	119.67E	10.50	16.08	
8000.00	68.88	266.040	7726.58	1202.74S	30.47E	10.50	105.62	
8100.00	79.16	268.250	7754.08	1207.48S	65.41W	10.50	201.42	
8200.00	89.46	270.310	7763.98	1208.70S	164.77W	10.50	300.29	
8300.00	90.04	270.430	7763.94	1207.96S	264.77W	==>	399.56	
8400.00	90.04	270.430	7763.88	1207.22S	364.77W	==>	498.83	
8500.00	90.04	270.430	7763.82	1206.47S	464.76W	==>	598.11	
8600.00	90.04	270.430	7763.76	1205.72S	564.76W	==>	697.38	
8700.00	90.04	270.430	7763.70	1204.98S	664.76W	==>	796.65	
8800.00	90.04	270.430	7763.64	1204.23S	764.76W	==>	895.92	
8900.00	90.04	270.430	7763.58	1203.48S	864.75W	==>	995.20	

All data is in Feet unless otherwise stated
Coordinates are from Slot MD's are from Rig and TVD's are from Rig (Planned Datum #1 5960.0ft above Mean Sea Level)
Vertical Section is from 0.00N 0.00E on azimuth 263.510 degrees
Bottom hole distance is 10048.81 Feet on azimuth 263.51 degrees from Wellhead
Calculation method uses Minimum Curvature method
Prepared by Integrated Petroleum Technologies, Inc.
Date Printed: 19-Jul-2017



SYS DRILL
Well Design Combined Report
Wellbore: W Hagar 5-64 15-16-1BHZ (PWB)



Interpolated Wellpath								
MD[ft]	Inc[deg]	Azi[deg]	TVD[ft]	North[ft]	East[ft]	Dogleg [deg/100ft]	Vertical Section[ft]	All Station Comments
9000.00	90.04	270.430	7763.51	1202.74S	964.75W	==>	1094.47	
9100.00	90.04	270.430	7763.45	1201.99S	1064.75W	==>	1193.74	
9200.00	90.04	270.430	7763.39	1201.24S	1164.75W	==>	1293.01	
9300.00	90.04	270.430	7763.33	1200.50S	1264.74W	==>	1392.29	
9400.00	90.04	270.430	7763.27	1199.75S	1364.74W	==>	1491.56	
9500.00	90.04	270.430	7763.21	1199.00S	1464.74W	==>	1590.83	
9600.00	90.04	270.430	7763.15	1198.26S	1564.73W	==>	1690.10	
9700.00	90.04	270.430	7763.09	1197.51S	1664.73W	==>	1789.38	
9800.00	90.04	270.430	7763.03	1196.77S	1764.73W	==>	1888.65	
9900.00	90.04	270.430	7762.96	1196.02S	1864.73W	==>	1987.92	
10000.00	90.04	270.430	7762.90	1195.27S	1964.72W	==>	2087.19	
10100.00	90.04	270.430	7762.84	1194.53S	2064.72W	==>	2186.47	
10200.00	90.04	270.430	7762.78	1193.78S	2164.72W	==>	2285.74	
10300.00	90.04	270.430	7762.72	1193.03S	2264.71W	==>	2385.01	
10400.00	90.04	270.430	7762.66	1192.29S	2364.71W	==>	2484.28	
10500.00	90.04	270.430	7762.60	1191.54S	2464.71W	==>	2583.56	
10600.00	90.04	270.430	7762.54	1190.79S	2564.71W	==>	2682.83	
10700.00	90.04	270.430	7762.48	1190.05S	2664.70W	==>	2782.10	
10800.00	90.04	270.430	7762.41	1189.30S	2764.70W	==>	2881.37	
10900.00	90.04	270.430	7762.35	1188.55S	2864.70W	==>	2980.65	
11000.00	90.04	270.430	7762.29	1187.81S	2964.69W	==>	3079.92	
11100.00	90.04	270.430	7762.23	1187.06S	3064.69W	==>	3179.19	
11200.00	90.04	270.430	7762.17	1186.31S	3164.69W	==>	3278.46	
11300.00	90.04	270.430	7762.11	1185.57S	3264.69W	==>	3377.74	
11400.00	90.04	270.430	7762.05	1184.82S	3364.68W	==>	3477.01	
11500.00	90.04	270.430	7761.99	1184.07S	3464.68W	==>	3576.28	
11600.00	90.04	270.430	7761.92	1183.33S	3564.68W	==>	3675.55	
11700.00	90.04	270.430	7761.86	1182.58S	3664.68W	==>	3774.83	
11800.00	90.04	270.430	7761.80	1181.83S	3764.67W	==>	3874.10	
11900.00	90.04	270.430	7761.74	1181.09S	3864.67W	==>	3973.37	
12000.00	90.04	270.430	7761.68	1180.34S	3964.67W	==>	4072.64	
12100.00	90.04	270.430	7761.62	1179.60S	4064.66W	==>	4171.92	
12200.00	90.04	270.430	7761.56	1178.85S	4164.66W	==>	4271.19	
12300.00	90.04	270.430	7761.50	1178.10S	4264.66W	==>	4370.46	
12400.00	90.04	270.430	7761.44	1177.36S	4364.66W	==>	4469.73	
12500.00	90.04	270.430	7761.37	1176.61S	4464.65W	==>	4569.01	
12600.00	90.04	270.430	7761.31	1175.86S	4564.65W	==>	4668.28	
12700.00	90.04	270.430	7761.25	1175.12S	4664.65W	==>	4767.55	
12800.00	90.04	270.430	7761.19	1174.37S	4764.64W	==>	4866.82	
12900.00	90.04	270.430	7761.13	1173.62S	4864.64W	==>	4966.10	
13000.00	90.04	270.430	7761.07	1172.88S	4964.64W	==>	5065.37	
13100.00	90.04	270.430	7761.01	1172.13S	5064.64W	==>	5164.64	
13200.00	90.04	270.430	7760.95	1171.38S	5164.63W	==>	5263.91	
13300.00	90.04	270.430	7760.89	1170.64S	5264.63W	==>	5363.19	
13400.00	90.04	270.430	7760.82	1169.89S	5364.63W	==>	5462.46	
13500.00	90.04	270.430	7760.76	1169.14S	5464.62W	==>	5561.73	
13600.00	90.04	270.430	7760.70	1168.40S	5564.62W	==>	5661.00	
13700.00	90.04	270.430	7760.64	1167.65S	5664.62W	==>	5760.28	
13800.00	90.04	270.430	7760.58	1166.90S	5764.62W	==>	5859.55	
13900.00	90.04	270.430	7760.52	1166.16S	5864.61W	==>	5958.82	
14000.00	90.04	270.430	7760.46	1165.41S	5964.61W	==>	6058.09	
14100.00	90.04	270.430	7760.40	1164.66S	6064.61W	==>	6157.37	
14200.00	90.04	270.430	7760.34	1163.92S	6164.61W	==>	6256.64	
14300.00	90.04	270.430	7760.27	1163.17S	6264.60W	==>	6355.91	
14400.00	90.04	270.430	7760.21	1162.43S	6364.60W	==>	6455.18	
14500.00	90.04	270.430	7760.15	1161.68S	6464.60W	==>	6554.46	
14600.00	90.04	270.430	7760.09	1160.93S	6564.59W	==>	6653.73	
14700.00	90.04	270.430	7760.03	1160.19S	6664.59W	==>	6753.00	
14800.00	90.04	270.430	7759.97	1159.44S	6764.59W	==>	6852.27	

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Interpolated Wellpath								
MD[ft]	Inc[deg]	Azi[deg]	TVD[ft]	North[ft]	East[ft]	Dogleg [deg/100ft]	Vertical Section[ft]	All Station Comments
14900.00	90.04	270.430	7759.91	1158.69S	6864.59W	==>	6951.55	
15000.00	90.04	270.430	7759.85	1157.95S	6964.58W	==>	7050.82	
15100.00	90.04	270.430	7759.79	1157.20S	7064.58W	==>	7150.09	
15200.00	90.04	270.430	7759.72	1156.45S	7164.58W	==>	7249.36	
15300.00	90.04	270.430	7759.66	1155.71S	7264.57W	==>	7348.64	
15400.00	90.04	270.430	7759.60	1154.96S	7364.57W	==>	7447.91	
15500.00	90.04	270.430	7759.54	1154.21S	7464.57W	==>	7547.18	
15600.00	90.04	270.430	7759.48	1153.47S	7564.57W	==>	7646.45	
15700.00	90.04	270.430	7759.42	1152.72S	7664.56W	==>	7745.73	
15800.00	90.04	270.430	7759.36	1151.97S	7764.56W	==>	7845.00	
15900.00	90.04	270.430	7759.30	1151.23S	7864.56W	==>	7944.27	
16000.00	90.04	270.430	7759.23	1150.48S	7964.55W	==>	8043.54	
16100.00	90.04	270.430	7759.17	1149.73S	8064.55W	==>	8142.82	
16200.00	90.04	270.430	7759.11	1148.99S	8164.55W	==>	8242.09	
16300.00	90.04	270.430	7759.05	1148.24S	8264.55W	==>	8341.36	
16400.00	90.04	270.430	7758.99	1147.49S	8364.54W	==>	8440.63	
16500.00	90.04	270.430	7758.93	1146.75S	8464.54W	==>	8539.91	
16600.00	90.04	270.430	7758.87	1146.00S	8564.54W	==>	8639.18	
16700.00	90.04	270.430	7758.81	1145.26S	8664.53W	==>	8738.45	
16800.00	90.04	270.430	7758.75	1144.51S	8764.53W	==>	8837.72	
16900.00	90.04	270.430	7758.68	1143.76S	8864.53W	==>	8937.00	
17000.00	90.04	270.430	7758.62	1143.02S	8964.53W	==>	9036.27	
17100.00	90.04	270.430	7758.56	1142.27S	9064.52W	==>	9135.54	
17200.00	90.04	270.430	7758.50	1141.52S	9164.52W	==>	9234.81	
17300.00	90.04	270.430	7758.44	1140.78S	9264.52W	==>	9334.09	
17400.00	90.04	270.430	7758.38	1140.03S	9364.52W	==>	9433.36	
17500.00	90.04	270.430	7758.32	1139.28S	9464.51W	==>	9532.63	
17600.00	90.04	270.430	7758.26	1138.54S	9564.51W	==>	9631.90	
17700.00	90.04	270.430	7758.20	1137.79S	9664.51W	==>	9731.18	
17800.00	90.04	270.430	7758.13	1137.04S	9764.50W	==>	9830.45	
17900.00	90.04	270.430	7758.07	1136.30S	9864.50W	==>	9929.72	
18000.00	90.04	270.430	7758.01	1135.55S	9964.50W	==>	10028.99	
18019.96	90.04	270.430	7758.00	1135.40S	9984.46W	==>	10048.81	

All data is in Feet unless otherwise stated
Coordinates are from Slot MD's are from Rig and TVD's are from Rig (Planned Datum #1 5960.0ft above Mean Sea Level)
Vertical Section is from 0.00N 0.00E on azimuth 263.510 degrees
Bottom hole distance is 10048.81 Feet on azimuth 263.51 degrees from Wellhead
Calculation method uses Minimum Curvature method
Prepared by Integrated Petroleum Technologies, Inc.
Date Printed: 19-Jul-2017



SYSDRILL
Well Design Combined Report
Wellbore: W Hagar 5-64 15-16-1BHZ (PWB)



Targets							
Name	North[ft]	East[ft]	TVD[ft]	Latitude	Longitude	Northing	Easting
W Hagar 5-64 15-16-1BHZ - BHL	1135.40S	9984.46W	7758.00	N39 36 41.3331	W104 33 59.3443	1648961.78	3263001.64
W Hagar 5-64 15-16-1BHZ - T1	1208.67S	170.34W	7764.00	N39 36 39.5938	W104 31 53.9613	1648888.52	3272815.50

Survey Tool Program					
Reference	Survey Name	MD[ft]	TVD[ft]	Survey Tool	Error Model
564230	Planned	1500.00	1499.97	WdW Rate Gyro	Standard
564229	Planned	18019.96	7758.00	ISCWSA MWD	Rev 4 + SAG + FLT

Notes