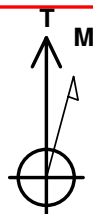
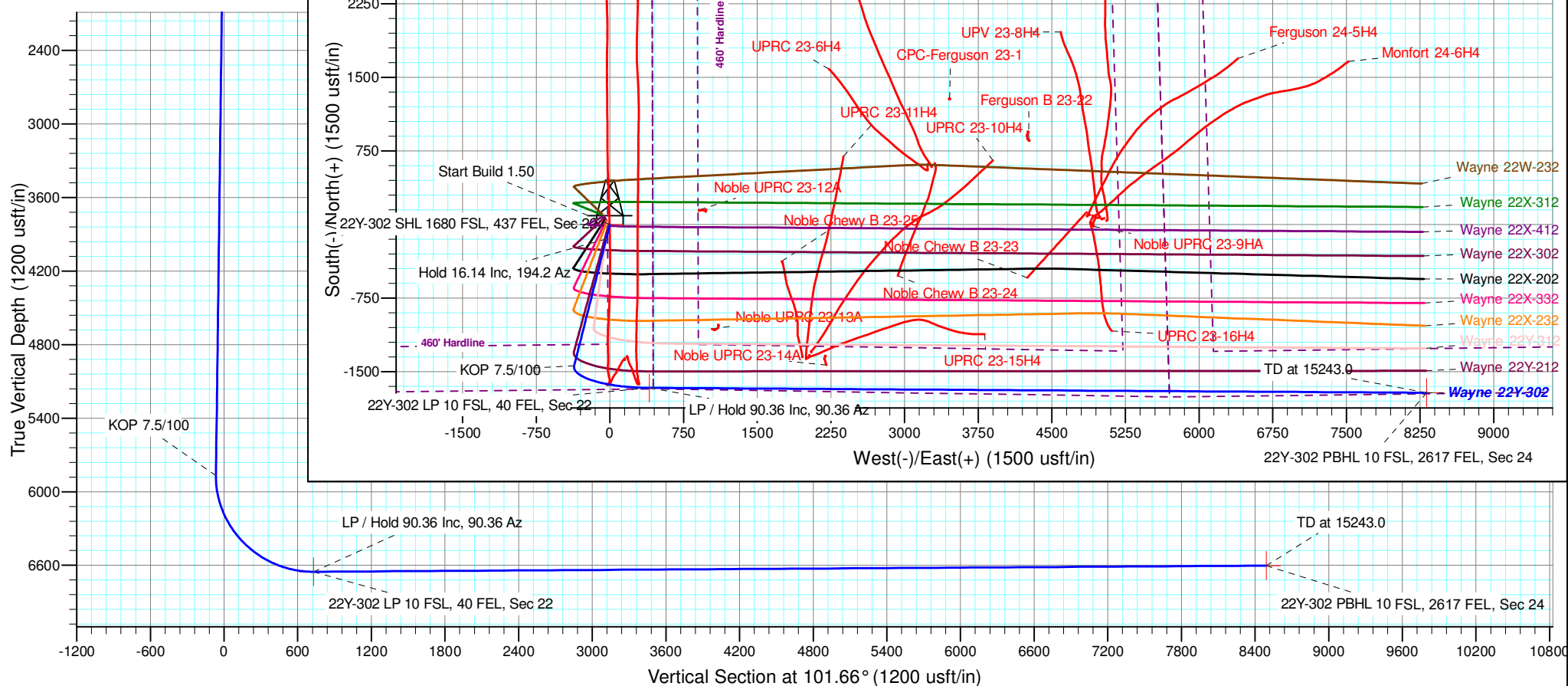
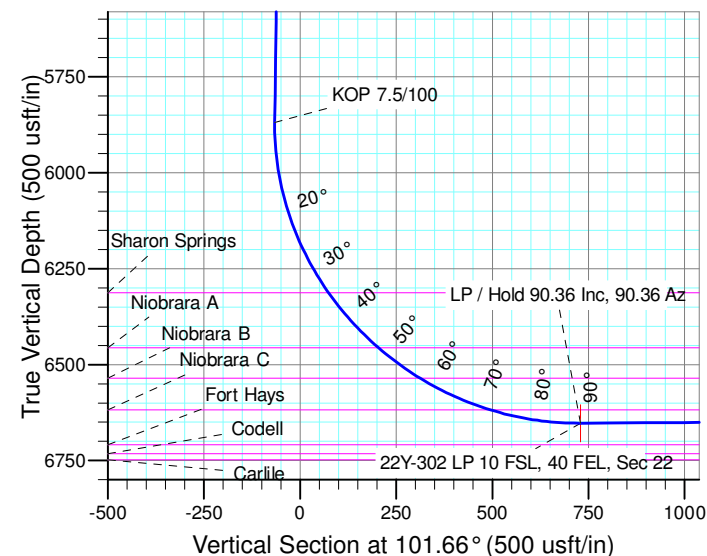


SECTION DETAILS										
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSec	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	200.0	0.00	0.00	200.0	0.0	0.0	0.00	0.00	0.0	
3	1276.0	16.14	194.20	1261.8	-146.0	-36.9	1.50	194.20	-6.7	
4	6072.3	16.14	194.20	5869.1	-1438.6	-363.9	0.00	0.00	-65.8	
5	7327.7	90.36	90.36	6653.0	-1665.2	401.6	7.50	-103.21	729.7	22Y-302 LP 10 FSL, 40 FEL, Sec 22
6	15243.0	90.36	90.36	6603.0	-1715.5	8316.5	0.00	0.00	8491.6	22Y-302 PBHL 10 FSL, 2617 FEL, Sec 24



Magnetic Field
Strength: 52423.6snT
Dip Angle: 66.88°
Date: 05/03/2017
Model: IGBF2015

Project: SEC. 22-T5N-R64W
Site: Wayne 5N64W22X 1-10 PAD
Well: Wayne 22Y-302
Wellbore: Wellbore #1
Design: Design #1 03May17 jps



Summary

Site Name	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
Existing Wells Sec. 22-T5N-R64W						
Ledford 22Y-341 - Wellbore #1 - Wellbore #1	6,700.0	6,391.4	192.9	151.6	4.672	SF
Ledford 22Y-341 - Wellbore #1 - Wellbore #1	6,739.4	6,406.0	190.4	150.1	4.720	CC, ES
Ledford 22Y-401 - Wellbore #1 - Wellbore #1	7,138.0	6,507.4	299.0	264.8	8.746	CC, ES, SF
Existing Wells Sec. 23-T5N-R64W						
CPC-Ferguson 23-1 - Wellbore #1 - Wellbore #1 01May1						Out of range
Ferguson 24-5H4 - Wellbore #1 - Wellbore #1 01May17 j						Out of range
Ferguson B 23-22 - Wellbore #1 - Wellbore #1 01May17						Out of range
Monfort 24-6H4 - Wellbore #1 - Wellbore #1 01May17 jps						Out of range
Noble Chewy B 23-23 - Wellbore #1 - Wellbore #1	11,169.0	6,693.4	1,148.1	976.4	6.687	CC
Noble Chewy B 23-23 - Wellbore #1 - Wellbore #1	11,200.0	6,693.2	1,148.5	975.8	6.649	ES
Noble Chewy B 23-23 - Wellbore #1 - Wellbore #1	11,400.0	6,691.9	1,171.1	991.5	6.522	SF
Noble Chewy B 23-24 - Wellbore #1 - Wellbore #1	9,849.6	6,775.9	1,160.3	1,031.1	8.981	CC
Noble Chewy B 23-24 - Wellbore #1 - Wellbore #1	9,900.0	6,775.2	1,161.4	1,030.5	8.874	ES
Noble Chewy B 23-24 - Wellbore #1 - Wellbore #1	10,200.0	6,770.7	1,212.0	1,071.0	8.598	SF
Noble Chewy B 23-25 - Wellbore #1 - Wellbore #1	8,671.0	6,721.5	1,290.3	1,201.2	14.483	CC
Noble Chewy B 23-25 - Wellbore #1 - Wellbore #1	8,700.0	6,721.1	1,290.6	1,200.6	14.335	ES
Noble Chewy B 23-25 - Wellbore #1 - Wellbore #1	9,300.0	6,711.8	1,435.4	1,325.6	13.075	SF
Noble UPRC 23-12A - Wellbore #1 - Wellbore #1	253.3	236.4	986.3	985.2	917.681	CC
Noble UPRC 23-12A - Wellbore #1 - Wellbore #1	300.0	283.2	986.4	985.0	742.160	ES
Noble UPRC 23-12A - Wellbore #1 - Wellbore #1	4,500.0	4,413.2	1,671.7	1,642.1	56.558	SF
Noble UPRC 23-13A - Wellbore #1 - Wellbore #1	7,960.1	6,616.5	603.9	541.0	9.598	CC, ES
Noble UPRC 23-13A - Wellbore #1 - Wellbore #1	8,100.0	6,611.3	619.9	552.8	9.240	SF
Noble UPRC 23-14A - Wellbore #1 - Wellbore #1	9,129.8	6,600.0	244.7	145.4	2.464	CC, ES, SF
Noble UPRC 23-9HA - Wellbore #1 - Wellbore #1	11,842.3	6,600.0	1,674.1	1,482.0	8.716	CC
Noble UPRC 23-9HA - Wellbore #1 - Wellbore #1	11,900.0	6,600.0	1,675.1	1,481.1	8.633	ES
Noble UPRC 23-9HA - Wellbore #1 - Wellbore #1	12,000.0	6,600.0	1,681.5	1,484.1	8.516	SF
UPRC 23-10H4 - Wellbore #1 - Wellbore #1						Out of range
UPRC 23-11H4 - Wellbore #1 - Wellbore #1 01May17 jps						Out of range
UPRC 23-15H4 - Wellbore #1 - Wellbore #1	10,648.9	7,160.7	566.1	407.1	3.560	CC, ES
UPRC 23-15H4 - Wellbore #1 - Wellbore #1	10,700.0	7,178.8	568.1	407.3	3.532	SF
UPRC 23-16H4 - Wellbore #1 - Wellbore #1	12,013.4	7,082.2	666.1	473.9	3.465	CC, ES
UPRC 23-16H4 - Wellbore #1 - Wellbore #1	12,100.0	7,095.5	671.6	477.4	3.459	SF
UPRC 23-3H4 - Wellbore #1 - Wellbore #1 01May17 jps						Out of range
UPRC 23-6H4 - Wellbore #1 - Wellbore #1 01May17 jps						Out of range
UPV 23-1H4 - Wellbore #1 - Wellbore #1 01May17 jps						Out of range
UPV 23-8H4 - Wellbore #1 - Wellbore #1 01May17 jps						Out of range
Wayne 5N64W22X 1-10 PAD						
Wayne 22W-232 - Wellbore #1 - Design #1 03May17 jps	200.0	200.0	135.0	134.2	177.004	CC, ES
Wayne 22W-232 - Wellbore #1 - Design #1 03May17 jps	1,200.0	1,171.7	292.5	285.8	43.541	SF
Wayne 22X-202 - Wellbore #1 - Design #1 03May17 jps	200.0	200.0	75.0	74.2	98.313	CC
Wayne 22X-202 - Wellbore #1 - Design #1 03May17 jps	300.0	300.7	75.4	74.1	59.711	ES
Wayne 22X-202 - Wellbore #1 - Design #1 03May17 jps	15,243.0	14,945.5	1,162.8	580.1	1.996	SF
Wayne 22X-232 - Wellbore #1 - Design #1 03May17 jps	200.0	200.0	45.0	44.2	58.968	CC
Wayne 22X-232 - Wellbore #1 - Design #1 03May17 jps	400.0	401.3	45.5	43.7	25.823	ES
Wayne 22X-232 - Wellbore #1 - Design #1 03May17 jps	15,243.0	15,035.4	685.7	103.8	1.178	Level 2, SF
Wayne 22X-302 - Wellbore #1 - Design #1 03May17 jps	200.0	200.0	90.0	89.2	117.997	CC, ES
Wayne 22X-302 - Wellbore #1 - Design #1 03May17 jps	15,243.0	14,999.9	1,395.1	810.9	2.388	SF
Wayne 22X-312 - Wellbore #1 - Design #1 03May17 jps	200.0	200.0	120.0	119.2	157.303	CC, ES
Wayne 22X-312 - Wellbore #1 - Design #1 03May17 jps	1,200.0	1,180.1	256.8	250.0	37.890	SF
Wayne 22X-332 - Wellbore #1 - Design #1 03May17 jps	200.0	200.0	60.0	59.2	78.652	CC
Wayne 22X-332 - Wellbore #1 - Design #1 03May17 jps	300.0	300.7	60.2	58.9	47.747	ES
Wayne 22X-332 - Wellbore #1 - Design #1 03May17 jps	15,243.0	15,061.2	915.1	330.7	1.566	SF
Wayne 22X-412 - Wellbore #1 - Design #1 03May17 jps	200.0	200.0	105.0	104.2	137.680	CC, ES
Wayne 22X-412 - Wellbore #1 - Design #1 03May17 jps	15,243.0	14,927.0	1,643.5	1,063.3	2.832	SF
Wayne 22Y-212 - Wellbore #1 - Design #1 03May17 jps	200.0	200.0	15.0	14.2	19.623	CC
Wayne 22Y-212 - Wellbore #1 - Design #1 03May17 jps	15,243.0	15,141.5	232.9	-331.8	0.412	Level 1, ES, SF
Wayne 22Y-312 - Wellbore #1 - Design #1 03May17 jps	1,025.2	1,029.4	23.6	17.9	4.155	CC
Wayne 22Y-312 - Wellbore #1 - Design #1 03May17 jps	15,243.0	14,921.9	452.0	-128.0	0.779	Level 1, ES, SF