

Revised Permit Information 8/27/2019:

Well Name: Wild Weasel 22 Fed Com #711H

Location:

SHL: 229' FNL & 1443' FWL, Section 22, T-25-S, R-34-E, Lea Co., N.M.

BHL: 100' FSL & 1024' FWL, Section 27, T-25-S, R-34-E, Lea Co., N.M.

Design A**Casing Program:**

Hole Size	Interval	Csg OD	Weight	Grade	Conn	DF _{min} Collapse	DF _{min} Burst	DF _{min} Tension
12.25"	0' – 989'	9.625"	40#	J-55	LTC	1.125	1.25	1.60
8.75"	0' – 11,530'	7.625"	29.7#	HCP-110	FXL	1.125	1.25	1.60
6.75"	0' – 11,030'	5.5"	20#	P-110 EC	DWC/C-IS MS	1.125	1.25	1.60
6.75"	11,030'–11,530'	5.5"	20#	HCP-110	VAM SFC	1.125	1.25	1.60
6.75"	11,530' – 22,797'	5.5"	20#	P-110 EC	DWC/C-IS MS	1.125	1.25	1.60

Variance is requested to wave the centralizer requirements for the 7-5/8" FJ casing in the 8-3/4" hole size. An expansion additive will be utilized, in the cement slurry, for the entire length of the 8-3/4" hole interval to maximize cement bond and zonal isolation.

Variance is also requested to wave any centralizer requirements for the 5-1/2" FJ casing in the 6-3/4" hole size. An expansion additive will be utilized, in the cement slurry, for the entire length of the 6-3/4" hole interval to maximize cement bond and zonal isolation.

EOG requests variance to allow deviation from the 0.422" annulus clearance requirement from Onshore Order #2 under the following conditions:

- Annular clearance to meet or exceed 0.422" between intermediate casing ID and production casing coupling only on the first 500' overlap between both casing strings.
- Annular clearance less than 0.422" is acceptable for the curve and lateral portions of the production open hole section.

EOG also requests to retain the option to utilize the previously permitted 4 string design, to be referred to as Design B.

Cement Program:

Depth	No. Sacks	Wt. ppg	Yld Ft ³ /sk	Slurry Description
989' 9-5/8"	830	13.5	1.73	Lead: Class C + 4.0% Bentonite + 0.5% CaCl ₂ + 0.25 lb/sk Cello-Flake (TOC @ Surface)
	80	14.8	1.34	Tail: Class C + 0.6% FL-62 + 0.25 lb/sk Cello-Flake + 0.2% Sodium Metasilicate (TOC @ 845')
11,530' 7-5/8"	470	14.2	1.11	1 st Stage (Tail): Class C + 0.6% Halad-9 + 0.45% HR-601 + 3% Microbond (TOC @ 7,800')
	1,000	12.7	2.30	2 nd Stage (Bradenhead squeeze): Class C + 3% Salt + 1% PreMag-M + 6% Bentonite Gel (TOC @ surface)
22,797' 5-1/2"	950	14.2	1.31	Lead: Class H + 0.4% Halad-344 + 0.35% HR-601 + 3% Microbond (TOC @ 11,030')

Additive	Purpose
Bentonite Gel	Lightweight/Lost circulation prevention
Calcium Chloride	Accelerator
Cello-flake	Lost circulation prevention
Sodium Metasilicate	Accelerator
MagOx	Expansive agent
Pre-Mag-M	Expansive agent
Sodium Chloride	Accelerator
FL-62	Fluid loss control
Halad-344	Fluid loss control
Halad-9	Fluid loss control
HR-601	Retarder
Microbond	Expansive Agent

EOG requests variance from minimum standards to pump a two stage cement job on the 7-5/8" intermediate casing string with the first stage being pumped conventionally with the calculated TOC at the Brushy Canyon and the second stage performed as a bradenhead squeeze with planned cement from the Brushy Canyon to surface. If necessary a top out consisting of 1,000 sacks of Class C cement + 3% Salt + 1% PreMag-M + 6% Bentonite Gel (2.30 yld, 12.91 ppg) will be executed as a contingency. Top of cement will be verified by Echo-meter.

EOG also requests variance for the option to perform this cement procedure on Design B in the 7-5/8" 2nd Intermediate casing string as a contingency plan.

EOG will include the final fluid top verified by Echo-meter and the volume of displacement fluid above the cement slurry in the annulus in all post-drill sundries on wells utilizing this cement program.

EOG will report to the BLM the volume of fluid (limited to 5 bbls) used to flush intermediate casing valves following backside cementing procedures.

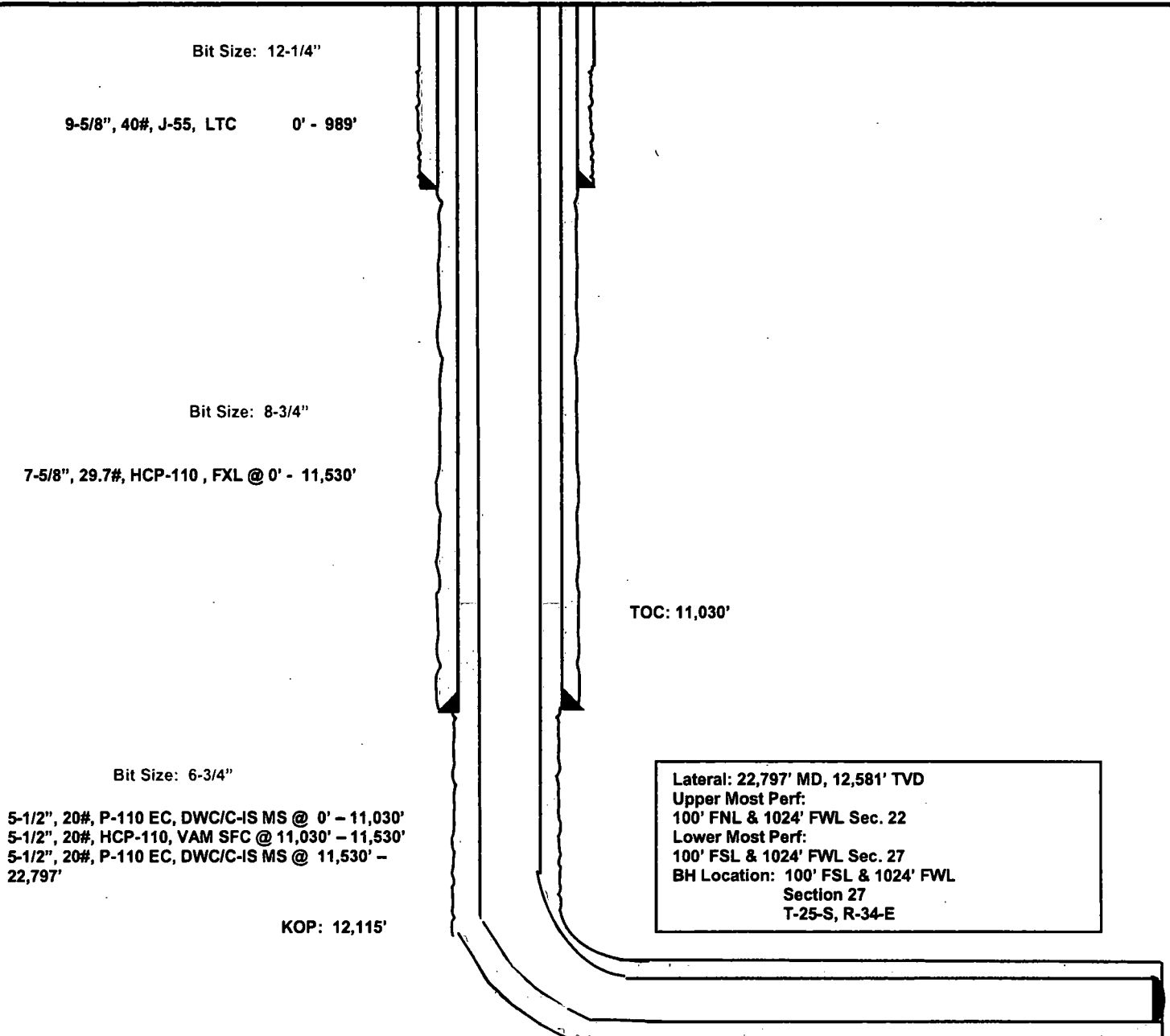
Mud Program:

Depth	Type	Weight (ppg)	Viscosity	Water Loss
0 – 989'	Fresh - Gel	8.6-8.8	28-34	N/c
989' – 11,530'	Oil Base	10.0-10.2	28-34	N/c
11,530' – 12,115'	Oil Base	8.7-9.4	58-68	N/c - 6
12,115' – 22,797' Lateral	Oil Base	10.0-14.0	58-68	3 - 6

Revised Wellbore
Design A

KB: 3,370'
GL: 3,345'

API: 30-025-46138





EOG Resources - Midland

Lea County, NM (NAD 83 NME)

Wild Weasel 22 Fed Com

#711H

OH

Plan: Plan #0.1

Standard Planning Report

08 August, 2019

Database: EDM 5000.14
Company: EOG Resources - Midland
Project: Lea County, NM (NAD 83 NME)
Site: Wild Weasel 22 Fed Com
Well: #711H
Wellbore: OH
Design: Plan #0.1

Local Co-ordinate Reference: Well #711H
TVD Reference: KB = 25 @ 3370.0usft
MD Reference: KB = 25 @ 3370.0usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature

Project	Lea County, NM (NAD 83 NME)		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		

Site	Wild Weasel 22 Fed Com		
Site Position:		Northing:	409,434.00 usft
From:	Map	Easting:	814,510.00 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 7' 21.137 N
		Longitude:	103° 27' 3.375 W
		Grid Convergence:	0.47 °

Well	#711H		
Well Position	+N/-S	8.0 usft	Northing: 409,442.00 usft
	+E/-W	-3,333.0 usft	Easting: 811,177.00 usft
Position Uncertainty	0.0 usft	Wellhead Elevation:	Latitude: 32° 7' 21.485 N
			Longitude: 103° 27' 42.129 W
			Ground Level: 3,345.0 usft

Wellbore	OH		
Magnetics	Model Name	Sample Date	Declination (°)
	IGRF2015	8/28/2018	6.76
			Dip Angle (°) 59.97
			Field Strength (nT) 47,766.91604163

Design	Plan #0.1		
Audit Notes:			
Version:	Phase:	PLAN	Tie On Depth: 0.0
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)
	0.0	0.0	0.0
			Direction (°) 181.86

Plan Survey Tool Program Date 8/8/2019

Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1	0.0	22,796.9 Plan #0.1 (OH)	MWD	
			OWSG MWD - Standard	

Plan Sections										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
3,000.0	0.00	0.00	3,000.0	0.0	0.0	0.00	0.00	0.00	0.00	
3,145.5	2.91	292.74	3,145.4	1.4	-3.4	2.00	2.00	0.00	292.74	
11,969.5	2.91	292.74	11,958.1	174.6	-416.6	0.00	0.00	0.00	0.00	
12,115.0	0.00	0.00	12,103.5	176.0	-420.0	2.00	-2.00	0.00	180.00	KOP (WW 22 FC #71
12,865.0	90.00	179.52	12,581.0	-301.4	-416.0	12.00	12.00	23.94	179.52	
22,796.9	90.00	179.52	12,581.0	-10,233.0	-332.0	0.00	0.00	0.00	0.00	PBHL (WW 22 FC #7

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 MD Reference: KB = 25 @ 3370.0usft
 North Reference: Grid
 Survey Calculation Method: Minimum Curvature

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	0.00
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	0.00
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	0.00
600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	0.00
700.0	0.00	0.00	700.0	0.0	0.0	0.0	0.00	0.00	0.00
800.0	0.00	0.00	800.0	0.0	0.0	0.0	0.00	0.00	0.00
900.0	0.00	0.00	900.0	0.0	0.0	0.0	0.00	0.00	0.00
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.0	0.00	0.00	0.00
1,100.0	0.00	0.00	1,100.0	0.0	0.0	0.0	0.00	0.00	0.00
1,200.0	0.00	0.00	1,200.0	0.0	0.0	0.0	0.00	0.00	0.00
1,300.0	0.00	0.00	1,300.0	0.0	0.0	0.0	0.00	0.00	0.00
1,400.0	0.00	0.00	1,400.0	0.0	0.0	0.0	0.00	0.00	0.00
1,500.0	0.00	0.00	1,500.0	0.0	0.0	0.0	0.00	0.00	0.00
1,600.0	0.00	0.00	1,600.0	0.0	0.0	0.0	0.00	0.00	0.00
1,700.0	0.00	0.00	1,700.0	0.0	0.0	0.0	0.00	0.00	0.00
1,800.0	0.00	0.00	1,800.0	0.0	0.0	0.0	0.00	0.00	0.00
1,900.0	0.00	0.00	1,900.0	0.0	0.0	0.0	0.00	0.00	0.00
2,000.0	0.00	0.00	2,000.0	0.0	0.0	0.0	0.00	0.00	0.00
2,100.0	0.00	0.00	2,100.0	0.0	0.0	0.0	0.00	0.00	0.00
2,200.0	0.00	0.00	2,200.0	0.0	0.0	0.0	0.00	0.00	0.00
2,300.0	0.00	0.00	2,300.0	0.0	0.0	0.0	0.00	0.00	0.00
2,400.0	0.00	0.00	2,400.0	0.0	0.0	0.0	0.00	0.00	0.00
2,500.0	0.00	0.00	2,500.0	0.0	0.0	0.0	0.00	0.00	0.00
2,600.0	0.00	0.00	2,600.0	0.0	0.0	0.0	0.00	0.00	0.00
2,700.0	0.00	0.00	2,700.0	0.0	0.0	0.0	0.00	0.00	0.00
2,800.0	0.00	0.00	2,800.0	0.0	0.0	0.0	0.00	0.00	0.00
2,900.0	0.00	0.00	2,900.0	0.0	0.0	0.0	0.00	0.00	0.00
3,000.0	0.00	0.00	3,000.0	0.0	0.0	0.0	0.00	0.00	0.00
3,100.0	2.00	292.74	3,100.0	0.7	-1.6	-0.6	2.00	2.00	0.00
3,145.5	2.91	292.74	3,145.4	1.4	-3.4	-1.3	2.00	2.00	0.00
3,200.0	2.91	292.74	3,199.9	2.5	-6.0	-2.3	0.00	0.00	0.00
3,300.0	2.91	292.74	3,299.7	4.5	-10.6	-4.1	0.00	0.00	0.00
3,400.0	2.91	292.74	3,399.6	6.4	-15.3	-5.9	0.00	0.00	0.00
3,500.0	2.91	292.74	3,499.5	8.4	-20.0	-7.7	0.00	0.00	0.00
3,600.0	2.91	292.74	3,599.4	10.3	-24.7	-9.5	0.00	0.00	0.00
3,700.0	2.91	292.74	3,699.2	12.3	-29.4	-11.3	0.00	0.00	0.00
3,800.0	2.91	292.74	3,799.1	14.3	-34.1	-13.2	0.00	0.00	0.00
3,900.0	2.91	292.74	3,899.0	16.2	-38.7	-15.0	0.00	0.00	0.00
4,000.0	2.91	292.74	3,998.8	18.2	-43.4	-16.8	0.00	0.00	0.00
4,100.0	2.91	292.74	4,098.7	20.2	-48.1	-18.6	0.00	0.00	0.00
4,200.0	2.91	292.74	4,198.6	22.1	-52.8	-20.4	0.00	0.00	0.00
4,300.0	2.91	292.74	4,298.4	24.1	-57.5	-22.2	0.00	0.00	0.00
4,400.0	2.91	292.74	4,398.3	26.0	-62.1	-24.0	0.00	0.00	0.00
4,500.0	2.91	292.74	4,498.2	28.0	-66.8	-25.8	0.00	0.00	0.00
4,600.0	2.91	292.74	4,598.1	30.0	-71.5	-27.6	0.00	0.00	0.00
4,700.0	2.91	292.74	4,697.9	31.9	-76.2	-29.4	0.00	0.00	0.00
4,800.0	2.91	292.74	4,797.8	33.9	-80.9	-31.3	0.00	0.00	0.00
4,900.0	2.91	292.74	4,897.7	35.9	-85.6	-33.1	0.00	0.00	0.00
5,000.0	2.91	292.74	4,997.5	37.8	-90.2	-34.9	0.00	0.00	0.00
5,100.0	2.91	292.74	5,097.4	39.8	-94.9	-36.7	0.00	0.00	0.00
5,200.0	2.91	292.74	5,197.3	41.7	-99.6	-38.5	0.00	0.00	0.00

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Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
5,300.0	2.91	292.74	5,297.2	43.7	-104.3	-40.3	0.00	0.00	0.00
5,400.0	2.91	292.74	5,397.0	45.7	-109.0	-42.1	0.00	0.00	0.00
5,500.0	2.91	292.74	5,496.9	47.6	-113.7	-43.9	0.00	0.00	0.00
5,600.0	2.91	292.74	5,596.8	49.6	-118.3	-45.7	0.00	0.00	0.00
5,700.0	2.91	292.74	5,696.6	51.6	-123.0	-47.5	0.00	0.00	0.00
5,800.0	2.91	292.74	5,796.5	53.5	-127.7	-49.3	0.00	0.00	0.00
5,900.0	2.91	292.74	5,896.4	55.5	-132.4	-51.2	0.00	0.00	0.00
6,000.0	2.91	292.74	5,996.3	57.4	-137.1	-53.0	0.00	0.00	0.00
6,100.0	2.91	292.74	6,096.1	59.4	-141.8	-54.8	0.00	0.00	0.00
6,200.0	2.91	292.74	6,196.0	61.4	-146.4	-56.6	0.00	0.00	0.00
6,300.0	2.91	292.74	6,295.9	63.3	-151.1	-58.4	0.00	0.00	0.00
6,400.0	2.91	292.74	6,395.7	65.3	-155.8	-60.2	0.00	0.00	0.00
6,500.0	2.91	292.74	6,495.6	67.2	-160.5	-62.0	0.00	0.00	0.00
6,600.0	2.91	292.74	6,595.5	69.2	-165.2	-63.8	0.00	0.00	0.00
6,700.0	2.91	292.74	6,695.4	71.2	-169.8	-65.6	0.00	0.00	0.00
6,800.0	2.91	292.74	6,795.2	73.1	-174.5	-67.4	0.00	0.00	0.00
6,900.0	2.91	292.74	6,895.1	75.1	-179.2	-69.2	0.00	0.00	0.00
7,000.0	2.91	292.74	6,995.0	77.1	-183.9	-71.1	0.00	0.00	0.00
7,100.0	2.91	292.74	7,094.8	79.0	-188.6	-72.9	0.00	0.00	0.00
7,200.0	2.91	292.74	7,194.7	81.0	-193.3	-74.7	0.00	0.00	0.00
7,300.0	2.91	292.74	7,294.6	82.9	-197.9	-76.5	0.00	0.00	0.00
7,400.0	2.91	292.74	7,394.5	84.9	-202.6	-78.3	0.00	0.00	0.00
7,500.0	2.91	292.74	7,494.3	86.9	-207.3	-80.1	0.00	0.00	0.00
7,600.0	2.91	292.74	7,594.2	88.8	-212.0	-81.9	0.00	0.00	0.00
7,700.0	2.91	292.74	7,694.1	90.8	-216.7	-83.7	0.00	0.00	0.00
7,800.0	2.91	292.74	7,793.9	92.8	-221.4	-85.5	0.00	0.00	0.00
7,900.0	2.91	292.74	7,893.8	94.7	-226.0	-87.3	0.00	0.00	0.00
8,000.0	2.91	292.74	7,993.7	96.7	-230.7	-89.2	0.00	0.00	0.00
8,100.0	2.91	292.74	8,093.5	98.6	-235.4	-91.0	0.00	0.00	0.00
8,200.0	2.91	292.74	8,193.4	100.6	-240.1	-92.8	0.00	0.00	0.00
8,300.0	2.91	292.74	8,293.3	102.6	-244.8	-94.6	0.00	0.00	0.00
8,400.0	2.91	292.74	8,393.2	104.5	-249.5	-96.4	0.00	0.00	0.00
8,500.0	2.91	292.74	8,493.0	106.5	-254.1	-98.2	0.00	0.00	0.00
8,600.0	2.91	292.74	8,592.9	108.5	-258.8	-100.0	0.00	0.00	0.00
8,700.0	2.91	292.74	8,692.8	110.4	-263.5	-101.8	0.00	0.00	0.00
8,800.0	2.91	292.74	8,792.6	112.4	-268.2	-103.6	0.00	0.00	0.00
8,900.0	2.91	292.74	8,892.5	114.3	-272.9	-105.4	0.00	0.00	0.00
9,000.0	2.91	292.74	8,992.4	116.3	-277.5	-107.2	0.00	0.00	0.00
9,100.0	2.91	292.74	9,092.3	118.3	-282.2	-109.1	0.00	0.00	0.00
9,200.0	2.91	292.74	9,192.1	120.2	-286.9	-110.9	0.00	0.00	0.00
9,300.0	2.91	292.74	9,292.0	122.2	-291.6	-112.7	0.00	0.00	0.00
9,400.0	2.91	292.74	9,391.9	124.2	-296.3	-114.5	0.00	0.00	0.00
9,500.0	2.91	292.74	9,491.7	126.1	-301.0	-116.3	0.00	0.00	0.00
9,600.0	2.91	292.74	9,591.6	128.1	-305.6	-118.1	0.00	0.00	0.00
9,700.0	2.91	292.74	9,691.5	130.0	-310.3	-119.9	0.00	0.00	0.00
9,800.0	2.91	292.74	9,791.4	132.0	-315.0	-121.7	0.00	0.00	0.00
9,900.0	2.91	292.74	9,891.2	134.0	-319.7	-123.5	0.00	0.00	0.00
10,000.0	2.91	292.74	9,991.1	135.9	-324.4	-125.3	0.00	0.00	0.00
10,100.0	2.91	292.74	10,091.0	137.9	-329.1	-127.1	0.00	0.00	0.00
10,200.0	2.91	292.74	10,190.8	139.9	-333.7	-129.0	0.00	0.00	0.00
10,300.0	2.91	292.74	10,290.7	141.8	-338.4	-130.8	0.00	0.00	0.00
10,400.0	2.91	292.74	10,390.6	143.8	-343.1	-132.6	0.00	0.00	0.00
10,500.0	2.91	292.74	10,490.5	145.7	-347.8	-134.4	0.00	0.00	0.00
10,600.0	2.91	292.74	10,590.3	147.7	-352.5	-136.2	0.00	0.00	0.00

Database: EDM 5000.14
Company: EOG Resources - Midland
Project: Lea County, NM (NAD 83 NME)
Site: Wild Weasel 22 Fed Com
Well: #711H
Wellbore: OH
Design: Plan #0.1

Local Co-ordinate Reference: Well #711H
TVD Reference: KB = 25 @ 3370.0usft
MD Reference: KB = 25 @ 3370.0usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
10,700.0	2.91	292.74	10,690.2	149.7	-357.1	-138.0	0.00	0.00	0.00
10,800.0	2.91	292.74	10,790.1	151.6	-361.8	-139.8	0.00	0.00	0.00
10,900.0	2.91	292.74	10,889.9	153.6	-366.5	-141.6	0.00	0.00	0.00
11,000.0	2.91	292.74	10,989.8	155.5	-371.2	-143.4	0.00	0.00	0.00
11,100.0	2.91	292.74	11,089.7	157.5	-375.9	-145.2	0.00	0.00	0.00
11,200.0	2.91	292.74	11,189.5	159.5	-380.6	-147.0	0.00	0.00	0.00
11,300.0	2.91	292.74	11,289.4	161.4	-385.2	-148.9	0.00	0.00	0.00
11,400.0	2.91	292.74	11,389.3	163.4	-389.9	-150.7	0.00	0.00	0.00
11,500.0	2.91	292.74	11,489.2	165.4	-394.6	-152.5	0.00	0.00	0.00
11,600.0	2.91	292.74	11,589.0	167.3	-399.3	-154.3	0.00	0.00	0.00
11,700.0	2.91	292.74	11,688.9	169.3	-404.0	-156.1	0.00	0.00	0.00
11,800.0	2.91	292.74	11,788.8	171.2	-408.7	-157.9	0.00	0.00	0.00
11,900.0	2.91	292.74	11,888.6	173.2	-413.3	-159.7	0.00	0.00	0.00
11,969.5	2.91	292.74	11,958.1	174.6	-416.6	-161.0	0.00	0.00	0.00
12,000.0	2.30	292.74	11,988.5	175.1	-417.9	-161.5	2.00	-2.00	0.00
12,100.0	0.30	292.74	12,088.5	176.0	-420.0	-162.3	2.00	-2.00	0.00
12,115.0	0.00	0.00	12,103.5	176.0	-420.0	-162.3	2.00	-2.00	0.00
KOP (WW 22 FC #711H)									
12,125.0	1.20	179.52	12,113.5	175.9	-420.0	-162.2	12.00	12.00	0.00
12,150.0	4.20	179.52	12,138.5	174.7	-420.0	-161.0	12.00	12.00	0.00
12,175.0	7.20	179.52	12,163.3	172.2	-420.0	-158.5	12.00	12.00	0.00
12,200.0	10.20	179.52	12,188.0	168.5	-419.9	-154.7	12.00	12.00	0.00
12,225.0	13.20	179.52	12,212.5	163.4	-419.9	-149.7	12.00	12.00	0.00
12,250.0	16.20	179.52	12,236.7	157.0	-419.8	-143.3	12.00	12.00	0.00
12,275.0	19.20	179.52	12,260.5	149.4	-419.8	-135.8	12.00	12.00	0.00
12,300.0	22.20	179.52	12,283.9	140.6	-419.7	-126.9	12.00	12.00	0.00
12,325.0	25.20	179.52	12,306.8	130.6	-419.6	-116.9	12.00	12.00	0.00
12,350.0	28.20	179.52	12,329.1	119.3	-419.5	-105.7	12.00	12.00	0.00
12,375.0	31.20	179.52	12,350.8	106.9	-419.4	-93.3	12.00	12.00	0.00
12,400.0	34.20	179.52	12,371.9	93.4	-419.3	-79.8	12.00	12.00	0.00
12,425.0	37.20	179.52	12,392.2	78.9	-419.2	-65.2	12.00	12.00	0.00
12,450.0	40.20	179.52	12,411.7	63.2	-419.0	-49.6	12.00	12.00	0.00
12,475.0	43.20	179.52	12,430.3	46.6	-418.9	-33.0	12.00	12.00	0.00
12,500.0	46.20	179.52	12,448.1	29.0	-418.8	-15.4	12.00	12.00	0.00
12,517.7	48.32	179.52	12,460.1	16.0	-418.6	-2.4	12.00	12.00	0.00
FTP (WW 22 FC #711H)									
12,525.0	49.20	179.52	12,464.9	10.5	-418.6	3.0	12.00	12.00	0.00
12,550.0	52.20	179.52	12,480.8	-8.8	-418.4	22.4	12.00	12.00	0.00
12,575.0	55.20	179.52	12,495.6	-29.0	-418.3	42.5	12.00	12.00	0.00
12,600.0	58.20	179.52	12,509.3	-49.8	-418.1	63.4	12.00	12.00	0.00
12,625.0	61.20	179.52	12,521.9	-71.4	-417.9	84.9	12.00	12.00	0.00
12,650.0	64.20	179.52	12,533.4	-93.6	-417.7	107.1	12.00	12.00	0.00
12,675.0	67.20	179.52	12,543.7	-116.4	-417.5	129.9	12.00	12.00	0.00
12,700.0	70.20	179.52	12,552.7	-139.7	-417.3	153.2	12.00	12.00	0.00
12,725.0	73.20	179.52	12,560.6	-163.4	-417.1	176.9	12.00	12.00	0.00
12,750.0	76.20	179.52	12,567.2	-187.6	-416.9	201.0	12.00	12.00	0.00
12,775.0	79.20	179.52	12,572.5	-212.0	-416.7	225.4	12.00	12.00	0.00
12,800.0	82.20	179.52	12,576.5	-236.6	-416.5	250.0	12.00	12.00	0.00
12,825.0	85.20	179.52	12,579.3	-261.5	-416.3	274.9	12.00	12.00	0.00
12,850.0	88.20	179.52	12,580.7	-286.4	-416.1	299.8	12.00	12.00	0.00
12,865.0	90.00	179.52	12,581.0	-301.4	-416.0	314.8	12.00	12.00	0.00
12,900.0	90.00	179.52	12,581.0	-336.4	-415.7	349.7	0.00	0.00	0.00
13,000.0	90.00	179.52	12,581.0	-436.4	-414.8	449.7	0.00	0.00	0.00
13,100.0	90.00	179.52	12,581.0	-536.4	-414.0	549.6	0.00	0.00	0.00

Database: EDM 5000.14
 Company: EOG Resources - Midland
 Project: Lea County, NM (NAD 83 NME)
 Site: Wild Weasel 22 Fed Com
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 Wellbore: OH
 Design: Plan #0.1

Local Co-ordinate Reference: Well #711H
 TVD Reference: KB = 25 @ 3370.0usft
 MD Reference: KB = 25 @ 3370.0usft
 North Reference: Grid
 Survey Calculation Method: Minimum Curvature

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
13,200.0	90.00	179.52	12,581.0	-636.4	-413.1	649.5	0.00	0.00	0.00
13,300.0	90.00	179.52	12,581.0	-736.4	-412.3	749.4	0.00	0.00	0.00
13,400.0	90.00	179.52	12,581.0	-836.4	-411.4	849.3	0.00	0.00	0.00
13,500.0	90.00	179.52	12,581.0	-936.4	-410.6	949.2	0.00	0.00	0.00
13,600.0	90.00	179.52	12,581.0	-1,036.4	-409.7	1,049.2	0.00	0.00	0.00
13,700.0	90.00	179.52	12,581.0	-1,136.4	-408.9	1,149.1	0.00	0.00	0.00
13,800.0	90.00	179.52	12,581.0	-1,236.4	-408.1	1,249.0	0.00	0.00	0.00
13,900.0	90.00	179.52	12,581.0	-1,336.4	-407.2	1,348.9	0.00	0.00	0.00
14,000.0	90.00	179.52	12,581.0	-1,436.4	-406.4	1,448.8	0.00	0.00	0.00
14,100.0	90.00	179.52	12,581.0	-1,536.4	-405.5	1,548.7	0.00	0.00	0.00
14,200.0	90.00	179.52	12,581.0	-1,636.4	-404.7	1,648.7	0.00	0.00	0.00
14,300.0	90.00	179.52	12,581.0	-1,736.4	-403.8	1,748.6	0.00	0.00	0.00
14,400.0	90.00	179.52	12,581.0	-1,836.4	-403.0	1,848.5	0.00	0.00	0.00
14,500.0	90.00	179.52	12,581.0	-1,936.4	-402.1	1,948.4	0.00	0.00	0.00
14,600.0	90.00	179.52	12,581.0	-2,036.4	-401.3	2,048.3	0.00	0.00	0.00
14,700.0	90.00	179.52	12,581.0	-2,136.4	-400.5	2,148.2	0.00	0.00	0.00
14,800.0	90.00	179.52	12,581.0	-2,236.4	-399.6	2,248.2	0.00	0.00	0.00
14,900.0	90.00	179.52	12,581.0	-2,336.4	-398.8	2,348.1	0.00	0.00	0.00
15,000.0	90.00	179.52	12,581.0	-2,436.4	-397.9	2,448.0	0.00	0.00	0.00
15,100.0	90.00	179.52	12,581.0	-2,536.4	-397.1	2,547.9	0.00	0.00	0.00
15,200.0	90.00	179.52	12,581.0	-2,636.4	-396.2	2,647.8	0.00	0.00	0.00
15,300.0	90.00	179.52	12,581.0	-2,736.4	-395.4	2,747.7	0.00	0.00	0.00
15,400.0	90.00	179.52	12,581.0	-2,836.4	-394.5	2,847.7	0.00	0.00	0.00
15,500.0	90.00	179.52	12,581.0	-2,936.3	-393.7	2,947.6	0.00	0.00	0.00
15,600.0	90.00	179.52	12,581.0	-3,036.3	-392.8	3,047.5	0.00	0.00	0.00
15,700.0	90.00	179.52	12,581.0	-3,136.3	-392.0	3,147.4	0.00	0.00	0.00
15,800.0	90.00	179.52	12,581.0	-3,236.3	-391.2	3,247.3	0.00	0.00	0.00
15,900.0	90.00	179.52	12,581.0	-3,336.3	-390.3	3,347.2	0.00	0.00	0.00
16,000.0	90.00	179.52	12,581.0	-3,436.3	-389.5	3,447.2	0.00	0.00	0.00
16,100.0	90.00	179.52	12,581.0	-3,536.3	-388.6	3,547.1	0.00	0.00	0.00
16,200.0	90.00	179.52	12,581.0	-3,636.3	-387.8	3,647.0	0.00	0.00	0.00
16,300.0	90.00	179.52	12,581.0	-3,736.3	-386.9	3,746.9	0.00	0.00	0.00
16,400.0	90.00	179.52	12,581.0	-3,836.3	-386.1	3,846.8	0.00	0.00	0.00
16,500.0	90.00	179.52	12,581.0	-3,936.3	-385.2	3,946.7	0.00	0.00	0.00
16,600.0	90.00	179.52	12,581.0	-4,036.3	-384.4	4,046.7	0.00	0.00	0.00
16,700.0	90.00	179.52	12,581.0	-4,136.3	-383.5	4,146.6	0.00	0.00	0.00
16,800.0	90.00	179.52	12,581.0	-4,236.3	-382.7	4,246.5	0.00	0.00	0.00
16,900.0	90.00	179.52	12,581.0	-4,336.3	-381.9	4,346.4	0.00	0.00	0.00
17,000.0	90.00	179.52	12,581.0	-4,436.3	-381.0	4,446.3	0.00	0.00	0.00
17,100.0	90.00	179.52	12,581.0	-4,536.3	-380.2	4,546.2	0.00	0.00	0.00
17,200.0	90.00	179.52	12,581.0	-4,636.3	-379.3	4,646.1	0.00	0.00	0.00
17,300.0	90.00	179.52	12,581.0	-4,736.3	-378.5	4,746.1	0.00	0.00	0.00
17,400.0	90.00	179.52	12,581.0	-4,836.3	-377.6	4,846.0	0.00	0.00	0.00
17,500.0	90.00	179.52	12,581.0	-4,936.3	-376.8	4,945.9	0.00	0.00	0.00
17,600.0	90.00	179.52	12,581.0	-5,036.3	-375.9	5,045.8	0.00	0.00	0.00
17,700.0	90.00	179.52	12,581.0	-5,136.3	-375.1	5,145.7	0.00	0.00	0.00
17,800.0	90.00	179.52	12,581.0	-5,236.3	-374.2	5,245.6	0.00	0.00	0.00
17,900.0	90.00	179.52	12,581.0	-5,336.3	-373.4	5,345.5	0.00	0.00	0.00
18,000.0	90.00	179.52	12,581.0	-5,436.3	-372.6	5,445.5	0.00	0.00	0.00
18,100.0	90.00	179.52	12,581.0	-5,536.3	-371.7	5,545.4	0.00	0.00	0.00
18,200.0	90.00	179.52	12,581.0	-5,636.3	-370.9	5,645.3	0.00	0.00	0.00
18,300.0	90.00	179.52	12,581.0	-5,736.2	-370.0	5,745.2	0.00	0.00	0.00
18,400.0	90.00	179.52	12,581.0	-5,836.2	-369.2	5,845.1	0.00	0.00	0.00
18,500.0	90.00	179.52	12,581.0	-5,936.2	-368.3	5,945.1	0.00	0.00	0.00

Database: EDM 5000.14
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Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
18,600.0	90.00	179.52	12,581.0	-6,036.2	-367.5	6,045.0	0.00	0.00	0.00
18,700.0	90.00	179.52	12,581.0	-6,136.2	-366.6	6,144.9	0.00	0.00	0.00
18,800.0	90.00	179.52	12,581.0	-6,236.2	-365.8	6,244.8	0.00	0.00	0.00
18,900.0	90.00	179.52	12,581.0	-6,336.2	-364.9	6,344.7	0.00	0.00	0.00
19,000.0	90.00	179.52	12,581.0	-6,436.2	-364.1	6,444.6	0.00	0.00	0.00
19,100.0	90.00	179.52	12,581.0	-6,536.2	-363.3	6,544.6	0.00	0.00	0.00
19,200.0	90.00	179.52	12,581.0	-6,636.2	-362.4	6,644.5	0.00	0.00	0.00
19,300.0	90.00	179.52	12,581.0	-6,736.2	-361.6	6,744.4	0.00	0.00	0.00
19,400.0	90.00	179.52	12,581.0	-6,836.2	-360.7	6,844.3	0.00	0.00	0.00
19,500.0	90.00	179.52	12,581.0	-6,936.2	-359.9	6,944.2	0.00	0.00	0.00
19,600.0	90.00	179.52	12,581.0	-7,036.2	-359.0	7,044.1	0.00	0.00	0.00
19,700.0	90.00	179.52	12,581.0	-7,136.2	-358.2	7,144.1	0.00	0.00	0.00
19,800.0	90.00	179.52	12,581.0	-7,236.2	-357.3	7,244.0	0.00	0.00	0.00
19,900.0	90.00	179.52	12,581.0	-7,336.2	-356.5	7,343.9	0.00	0.00	0.00
20,000.0	90.00	179.52	12,581.0	-7,436.2	-355.6	7,443.8	0.00	0.00	0.00
20,100.0	90.00	179.52	12,581.0	-7,536.2	-354.8	7,543.7	0.00	0.00	0.00
20,200.0	90.00	179.52	12,581.0	-7,636.2	-354.0	7,643.6	0.00	0.00	0.00
20,300.0	90.00	179.52	12,581.0	-7,736.2	-353.1	7,743.6	0.00	0.00	0.00
20,400.0	90.00	179.52	12,581.0	-7,836.2	-352.3	7,843.5	0.00	0.00	0.00
20,500.0	90.00	179.52	12,581.0	-7,936.2	-351.4	7,943.4	0.00	0.00	0.00
20,600.0	90.00	179.52	12,581.0	-8,036.2	-350.6	8,043.3	0.00	0.00	0.00
20,700.0	90.00	179.52	12,581.0	-8,136.2	-349.7	8,143.2	0.00	0.00	0.00
20,800.0	90.00	179.52	12,581.0	-8,236.2	-348.9	8,243.1	0.00	0.00	0.00
20,900.0	90.00	179.52	12,581.0	-8,336.2	-348.0	8,343.1	0.00	0.00	0.00
21,000.0	90.00	179.52	12,581.0	-8,436.2	-347.2	8,443.0	0.00	0.00	0.00
21,100.0	90.00	179.52	12,581.0	-8,536.1	-346.3	8,542.9	0.00	0.00	0.00
21,200.0	90.00	179.52	12,581.0	-8,636.1	-345.5	8,642.8	0.00	0.00	0.00
21,300.0	90.00	179.52	12,581.0	-8,736.1	-344.7	8,742.7	0.00	0.00	0.00
21,400.0	90.00	179.52	12,581.0	-8,836.1	-343.8	8,842.6	0.00	0.00	0.00
21,500.0	90.00	179.52	12,581.0	-8,936.1	-343.0	8,942.6	0.00	0.00	0.00
21,600.0	90.00	179.52	12,581.0	-9,036.1	-342.1	9,042.5	0.00	0.00	0.00
21,700.0	90.00	179.52	12,581.0	-9,136.1	-341.3	9,142.4	0.00	0.00	0.00
21,800.0	90.00	179.52	12,581.0	-9,236.1	-340.4	9,242.3	0.00	0.00	0.00
21,900.0	90.00	179.52	12,581.0	-9,336.1	-339.6	9,342.2	0.00	0.00	0.00
22,000.0	90.00	179.52	12,581.0	-9,436.1	-338.7	9,442.1	0.00	0.00	0.00
22,100.0	90.00	179.52	12,581.0	-9,536.1	-337.9	9,542.1	0.00	0.00	0.00
22,200.0	90.00	179.52	12,581.0	-9,636.1	-337.0	9,642.0	0.00	0.00	0.00
22,300.0	90.00	179.52	12,581.0	-9,736.1	-336.2	9,741.9	0.00	0.00	0.00
22,400.0	90.00	179.52	12,581.0	-9,836.1	-335.4	9,841.8	0.00	0.00	0.00
22,500.0	90.00	179.52	12,581.0	-9,936.1	-334.5	9,941.7	0.00	0.00	0.00
22,600.0	90.00	179.52	12,581.0	-10,036.1	-333.7	10,041.6	0.00	0.00	0.00
22,700.0	90.00	179.52	12,581.0	-10,136.1	-332.8	10,141.6	0.00	0.00	0.00
22,796.9	90.00	179.52	12,581.0	-10,233.0	-332.0	10,238.4	0.00	0.00	0.00

PBHL (WW 22 FC #711H)

Database: EDM 5000.14
Company: EOG Resources - Midland
Project: Lea County, NM (NAD 83 NME)
Site: Wild Weasel 22 Fed Com
Well: #711H
Wellbore: OH
Design: Plan #0.1

Local Co-ordinate Reference: Well #711H
TVD Reference: KB = 25 @ 3370.0usft
MD Reference: KB = 25 @ 3370.0usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature

Design Targets

Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
KOP (WW 22 FC #711H) - plan hits target center - Point	0.00	0.00	12,103.5	176.0	-420.0	409,618.00	810,757.00	32° 7' 23.260 N	103° 27' 46.996 W
PBHL (WW 22 FC #711H) - plan hits target center - Point	0.00	0.00	12,581.0	-10,233.0	-332.0	399,209.00	810,845.00	32° 5' 40.255 N	103° 27' 46.950 W
FTP (WW 22 FC #711H) - plan misses target center by 163.4usft at 12517.7usft MD (12460.1 TVD, 16.0 N, -418.6 E) - Point	0.00	0.00	12,581.0	126.0	-420.0	409,568.00	810,757.00	32° 7' 22.765 N	103° 27' 47.000 W



Lea County, NM (NAD 83 NME)
Wild Weasel 22 Fed Com #711H
Plan #0.1

PROJECT DETAILS: Lea County, NM (NAD 83 NME)

Geodetic System: US State Plane 1983
Datum: North American Datum 1983
Elev: GRS 1980
Zone: New Mexico Eastern Zone
System Datum: Mean Sea Level

WELL DETAILS: #711H

KB = 25 @ 3370.0usR 3349.0
Northing 409442.00 Easting 811177.00 Latitude 32° 7' 21.483 N Longitude 103° 27' 42.129 W

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dieg	IFace	VSecl	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	3000.0	0.00	0.00	3000.0	0.0	0.0	0.00	0.00	0.0	
3	3145.5	2.91	292.74	3145.4	1.4	-3.4	2.00	292.74	-1.3	
4	11969.5	2.91	292.74	11958.1	174.6	-416.8	0.00	0.00	-161.0	
5	12115.0	0.00	0.00	12103.5	176.0	-420.0	2.00	180.00	-162.3	KOP (WW 22 FC #711H)
6	12865.0	90.00	179.52	12581.0	-301.4	-416.0	12.00	179.52	314.8	
7	22796.9	90.00	179.52	12581.0	-10233.0	-332.0	0.00	0.00	10238.4	PBHL (WW 22 FC #711H)

CASING DETAILS

No casing data is available

WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

Name	TVD	+N/-S	+E/-W	Northing	Easting
KOP (WW 22 FC #711H)	12103.5	176.0	-420.0	408818.00	810787.00
FTP (WW 22 FC #711H)	12861.0	126.0	-420.0	408848.00	810787.00
PBHL (WW 22 FC #711H)	12581.0	-10233.0	-332.0	399209.00	810845.00

