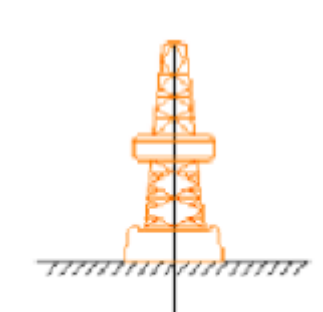
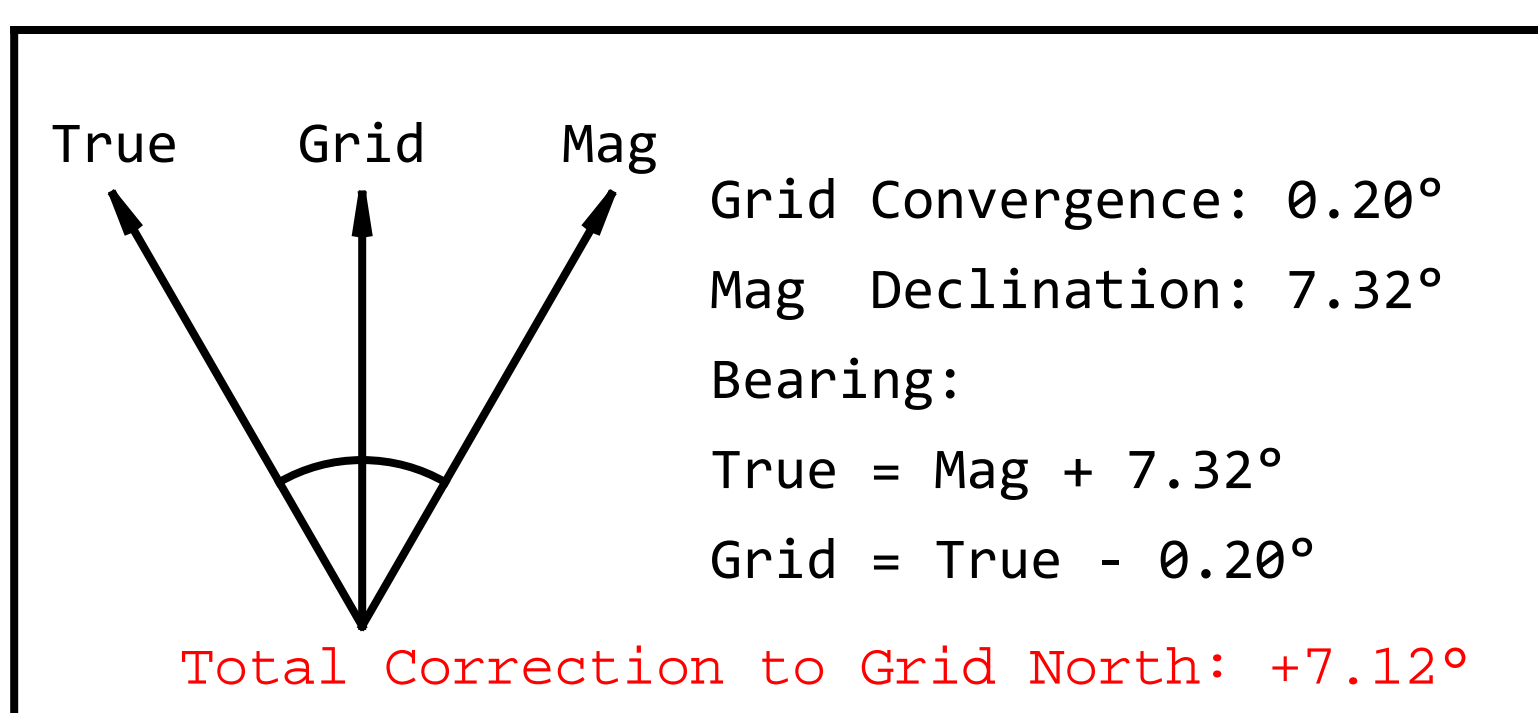
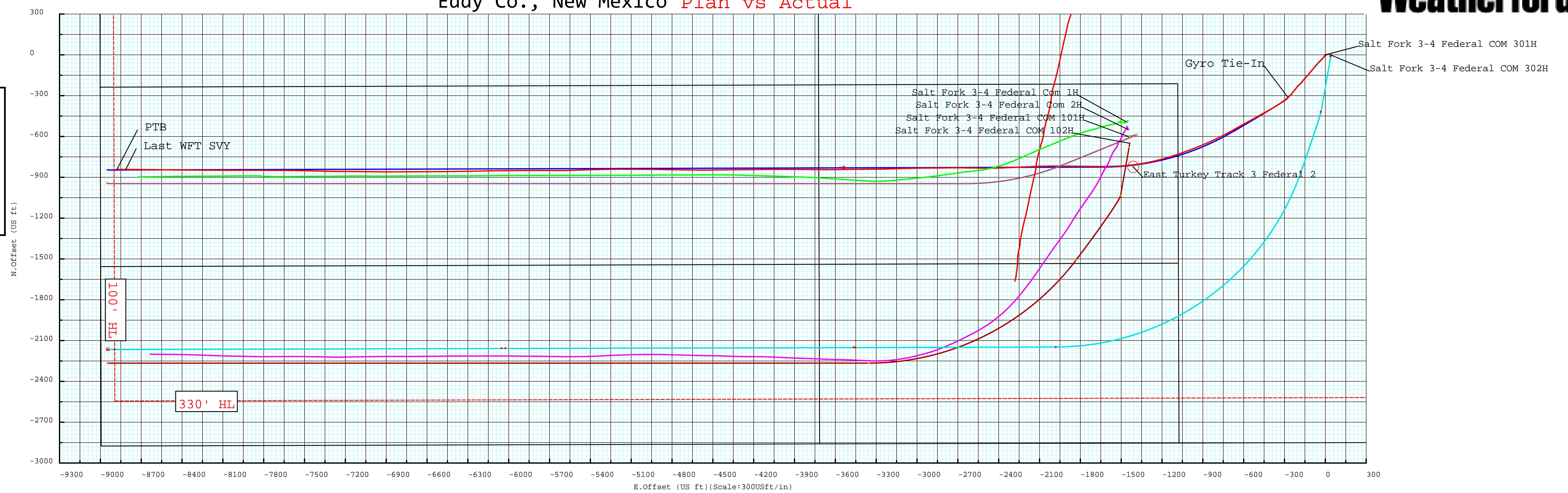
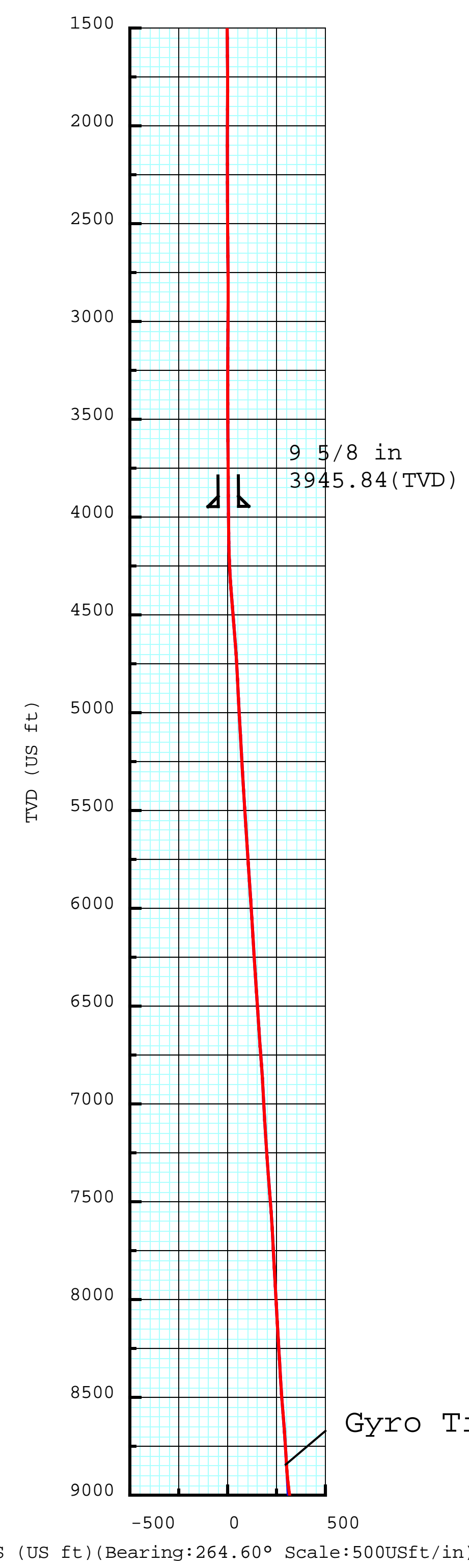




Apache Corporation
Salt Fork 3-4 Federal COM 301H
Eddy Co., New Mexico **Plan vs Actual**



KB: 3466.00
GL: 3440.00



Plan Data for Salt Fork 3-4 Federal COM 301H

Field: Apache NM (Nad 83 NMEZ)
 Map Unit: USFt Vertical Reference Datum (VRD): Mean Sea Level
 Projected Coordinate System: NAD83 / New Mexico East (ftUS)

Site: Salt Fork 3-4 FC Pad (101,102,301,302)
 Unit: USFeet TVD Reference:
 Company Name: Apache Corporation
 Position: Northing: 614346.60USft Latitude: 32.688330°
 Easting: 655888.70USft Longitude: -103.960992°
 North Reference: Grid Grid Convergence: 0.20°
 Elevation Above VRD: 3410.00USft
 Comment: Eddy Co., New Mexico

Slot: Salt Fork 3-4 Federal COM 301H
 Position:
 Offset is from Site centre
 +N/-S: 600.70USft Northing: 614947.30USft Latitude: 32.689967°
 +E/-W: 1443.80USft Easting: 657332.50USft Longitude: -103.956292°
 Elevation Above VRD: 3440.00USft

Well: Salt Fork 3-4 Federal COM 301H
 Type: Main-Well
 File Number: 13931044
 Plan Folder: P3 Plan: P3:V1
 Vertical Section: Position offset of origin from Slot centre:
 +N/-S: 0.00USft Azimuth: 264.60°
 +E/-W: -0.00USft
 Magnetic Parameters:
 Model: Field Strength: Declination: Dip: Date:
 IFR 48061(nT) 7.32° 60.50° 2020-01-15

Plan Data for Salt Fork 3-4 Federal COM 301H

Formation Point Information:

Name	TVD Elevation (USft)	MD (USft)
WOLFCAMP	9666.00	-6200.00 -1.00
RUSTLER	436.00	3030.00 436.02
SALADO	576.00	2890.00 576.02
TANSILL	1461.00	2005.00 1461.04
YATES	1826.00	1640.00 1826.05
SEVEN RIVERS	2101.00	1365.00 2101.06
QUEEN	2736.00	730.00 2736.12
GRAYEURG	3251.00	215.00 3251.13
SAN ANDRES	3656.00	-190.00 3656.14
DELAWARE SANDS	3916.00	-450.00 3916.15
1ST BS CARB	5916.00	-2450.00 5922.64
1ST BS SAND	7571.00	-4105.00 7584.29
2ND BS CARB	7826.00	-4360.00 7840.15
2ND BS SAND	8386.00	-4920.00 8402.02
3RD BS CARB	8646.00	-5180.00 8663.27
3RD BS SAND	9211.00	-5745.00 9240.35

Plan Data for Salt Fork 3-4 Federal COM 301H

Plan Point Information:

MD (USft)	Inc (°)	Az (°)	TVD (USft)	+N/-S (USft)	+E/-W (USft)	Position offsets from Slot centre (USft)	Northing (USft)	Easting (USft)	VSec (USft)	DLS (DLSU)	Comments
8866.90	4.57	222.23	8848.94	-312.89	-273.21	614634.41	657059.29	301.45	0.15	0.00	Gyro Tie-In
9029.85	4.57	222.23	9011.37	-322.51	-281.94	614624.79	657050.56	311.04	0.00	0.00	KOP'
9738.48	89.39	239.92	9452.42	-567.76	-684.20	614379.54	656648.30	734.60	12.00	0.00	LP/Turn
10735.49	89.39	269.83	9463.30	-824.93	-1635.73	614122.37	655696.77	1706.10	3.00	0.00	Hold
12637.38	89.39	269.83	9483.60	-830.50	-3537.50	614116.80	653795.00	3599.96	0.00	0.00	Tgt
12662.61	88.88	269.83	9483.98	-830.57	-3562.73	614116.73	653769.77	3625.08	2.00	0.00	Hold
15775.63	88.88	269.83	9544.63	-839.78	-6675.14	614107.52	650657.36	6724.55	0.00	0.00	Build
15851.39	90.40	269.83	9545.10	-840.00	-6750.90	614107.30	650581.60	6799.99	2.00	0.00	T2
17998.85	90.40	269.83	9530.15	-846.35	-8898.30	614100.95	648434.20	8938.46	0.00	0.00	LTP/100'HL
18048.85	90.40	269.83	9529.80	-846.50	-8948.30	614100.80	648384.20	8988.25	0.00	0.00	PBHL 301H

Plan Data for Salt Fork 3-4 Federal COM 301H

Target Set Information:

Name: SF 3-4 FC 301H

Position offsets from Slot centre

Name	TVD Elevation (USft)	+N/-S (USft)	+E/-W (USft)	Northing (USft)	Easting (USft)
Tgt	9483.60	-6017.60	-830.50	-3537.50	614116.80 653795.00
T2	9545.10	-6079.10	-840.00	-6750.90	614107.30 650581.60
LTP 301H	9530.17	-6064.17	-846.40	-8898.30	614100.90 648434.20
PBHL 301H	9529.80	-6063.80	-846.50	-8948.30	614100.80 648384.20

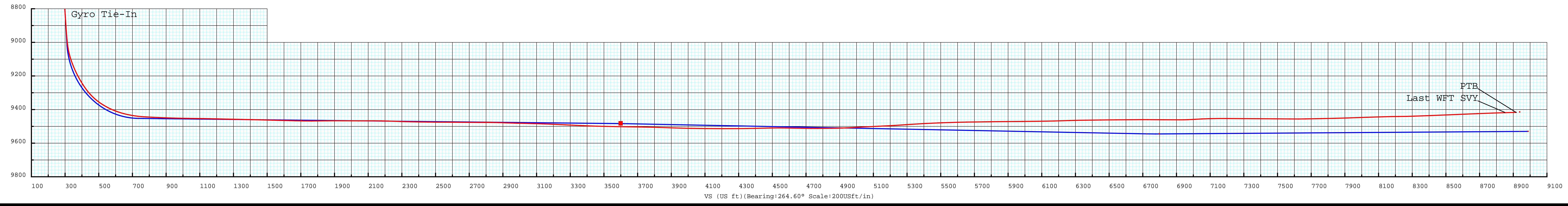
Plan Data for Salt Fork 3-4 Federal COM 301H

Casing Point Information:

Position offsets from Slot centre

Name	MD (USft)	TVD (USft)	+N/-S (USft)	+E/-W (USft)	Northing (USft)	Easting (USft)
13 3/8 in	514.00	513.98	0.11	4.25	614947.41	657336.75
9 5/8 in	3946.00	3945.84	-5.90	-3.45	614941.40	657329.05

Drawing By: Cot Sinakone Date: 19 January 2020
 Office Name: Weatherford Drilling Services
 Address: 12101 Cutten Road
 Houston, TX 77066
 Phone: 281-701-4760



**5D Survey Report****Apache Corporation**

Field Name: *Apache NM (Nad 83 NMEZ)*
Site Name: *Salt Fork 3-4 FC Pad (101,102,301,302)*
Well Name: *Salt Fork 3-4 Federal COM 301H*
File number: *13931044*
Survey: *Definitive survey*

11 February 2020





Salt Fork 3-4 Federal COM 301H

Field Name: Apache NM (Nad 83 NMEZ)	Map Units: US ft Vertical Reference Datum (VRD): Mean Sea Level Projected Coordinate System: NAD83 / New Mexico East (ftUS) Comment:	Company Name: Apache Corporation
Site: Salt Fork 3-4 FC Pad (101,102,301,302)	Units: US ft North Reference: Grid Position: Northing: 614346.60 US ft Easting: 655888.70 US ft Elevation above MSL: 3410.00 US ft Comment: Eddy Co., New Mexico	Convergence Angle: 0.20 Latitude: 32.688329777 Longitude: -103.960991713
Slot: Salt Fork 3-4 Federal COM 301H	Position (Relative to Site Centre)	
	+N/-S: 600.70 US ft +E/-W: 1443.80 US ft	Northing: 614947.30 US ft Easting: 657332.50 US ft Latitude: 32.689966871 Longitude: -103.956291878
	Slot TVD Reference: Ground Elevation Elevation above MSL: 3440.00 US ft Comment:	
Well: Salt Fork 3-4 Federal COM 301H	Type: Main well File Number: 13931044 Closure Distance: 8917.26 US ft Vertical Section: Position of Origin (Relative to Slot centre) +N/-S: 0.00 US ft	UWI: Comment: Closure Azimuth: 264.59° +E/-W: -0.00 US ft Az: 264.60°
Drill floor: Survey Name: Definitive Survey		
Rig Height (Kelly Bushing): 26.00 US ft Elevation above MSL: 3466.00 US ft Inclination: 0.00° Azimuth: 0.00°		
Survey Name: Definitive Survey		
Date: 13/Apr/2018	Survey Tool: See Survey Tool Ranges below.	Comment: Company:
Magnetic Model:		
Model Name: IFR	Date: 15/Jan/2020	Field Strength: 48061.0nT Declination: 7.32° Dip: 60.50°
Tie Point:		
MD: 0.00 US ft	Inclination: 0.00°	Azimuth: 0.00° TVD: 0.00 US ft North Offset: 0.00 US ft East Offset: -0.00 US ft

5D Survey Report

Survey Tool Ranges:			
Name	Start MD(USFt)	End MD(USFt)	Source Survey
GYRO_GC_WIR+DPIPE_GYD	0.00	8866.90	Gyro
MWD+IFR1+SAG+FDIR	8866.90	17957.00	WFT MWD+IFR1+SAG+FDIR_Corrected

Casing Points: (Relative to Slot centre)(TVD relative to Kelly Bushing)									
Name	MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	N.Offset (US ft)	E.Offset (US ft)	Northing (US ft)	Easting (US ft)	
13 3/8 in	514.00	0.60	100.33	513.98	0.11	4.25	614947.41	657336.75	
9 5/8 in	3946.00	0.64	223.09	3945.84	-5.90	-3.45	614941.40	657329.05	

Wellpath created using minimum curvature.

Survey Points: (Relative to Slot centre)(TVD relative to Kelly Bushing)											
MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	VS (US ft)	N.Offset (US ft)	E.Offset (US ft)	DLS (°/100US ft)	Northing (US ft)	Easting (US ft)		Comment
0.00	0.00	0.00	0.00	-0.00	0.00	-0.00	0.00	614947.30	657332.50		
89.90	0.22	83.96	89.90	-0.17	0.02	0.17	0.24	614947.32	657332.67		
177.49	0.38	76.27	177.49	-0.63	0.10	0.62	0.19	614947.40	657333.12		
265.80	0.59	80.75	265.80	-1.37	0.25	1.35	0.24	614947.55	657333.85		
353.32	0.76	90.76	353.31	-2.40	0.31	2.38	0.24	614947.61	657334.88		
439.47	0.66	97.90	439.45	-3.45	0.24	3.44	0.15	614947.54	657335.94		
528.63	0.59	100.86	528.61	-4.39	0.08	4.40	0.09	614947.38	657336.90		
650.88	0.37	106.29	650.85	-5.36	-0.15	5.40	0.18	614947.15	657337.90		
739.86	0.05	203.01	739.83	-5.61	-0.27	5.66	0.43	614947.03	657338.16		
829.99	0.10	265.12	829.96	-5.51	-0.31	5.57	0.10	614946.99	657338.07		
919.03	0.14	286.07	919.00	-5.33	-0.29	5.38	0.07	614947.01	657337.88		
1009.83	0.13	304.17	1009.80	-5.15	-0.20	5.19	0.05	614947.10	657337.69		
1100.66	0.14	313.57	1100.63	-5.00	-0.06	5.03	0.03	614947.24	657337.53		
1191.42	0.21	313.91	1191.39	-4.82	0.13	4.83	0.08	614947.43	657337.33		
1281.63	0.41	281.43	1281.60	-4.40	0.31	4.39	0.29	614947.61	657336.89		
1372.63	0.62	277.35	1372.60	-3.61	0.44	3.58	0.23	614947.74	657336.08		
1463.06	0.65	279.18	1463.02	-2.63	0.58	2.59	0.04	614947.88	657335.09		
1551.90	0.55	288.87	1551.86	-1.76	0.80	1.69	0.16	614948.10	657334.19		
1643.36	0.56	292.53	1643.31	-0.96	1.11	0.86	0.04	614948.41	657333.36		
1732.83	0.55	300.06	1732.78	-0.23	1.49	0.09	0.08	614948.79	657332.59		
1822.36	0.10	60.95	1822.31	0.05	1.75	-0.22	0.68	614949.05	657332.28		
1914.08	0.39	96.35	1914.03	-0.33	1.75	0.16	0.34	614949.05	657332.66		
2008.33	0.42	108.33	2008.27	-0.96	1.61	0.81	0.10	614948.91	657333.31		
2102.26	0.57	182.18	2102.20	-1.21	1.03	1.12	0.65	614948.33	657333.62		
2196.31	0.76	185.41	2196.24	-1.03	-0.06	1.04	0.21	614947.24	657333.54		
2290.52	0.72	183.47	2290.45	-0.82	-1.27	0.95	0.05	614946.03	657333.45		
2384.70	0.80	187.68	2384.62	-0.58	-2.51	0.82	0.10	614944.79	657333.32		
2478.89	0.89	194.24	2478.80	-0.19	-3.87	0.56	0.14	614943.43	657333.06		
2572.58	0.91	202.25	2572.48	0.40	-5.27	0.10	0.14	614942.03	657332.60		
2667.08	0.64	267.61	2666.97	1.28	-5.98	-0.72	0.92	614941.32	657331.78		
2761.53	0.68	281.93	2761.41	2.34	-5.89	-1.79	0.18	614941.41	657330.71		
2854.97	0.34	34.39	2854.85	2.69	-5.55	-2.18	0.93	614941.75	657330.32		
2949.97	0.50	43.75	2949.85	2.20	-5.01	-1.73	0.18	614942.29	657330.77		
3044.31	0.46	44.02	3044.18	1.60	-4.44	-1.18	0.04	614942.86	657331.32		
3138.51	0.41	32.53	3138.38	1.10	-3.89	-0.74	0.11	614943.41	657331.76		
3232.39	0.49	26.50	3232.26	0.68	-3.25	-0.38	0.10	614944.05	657332.12		
3326.38	0.40	20.43	3326.25	0.33	-2.58	-0.09	0.11	614944.72	657332.41		
3420.84	0.37	219.05	3420.71	0.40	-2.51	-0.16	0.80	614944.79	657332.34		
3515.06	0.52	222.03	3514.92	0.93	-3.06	-0.64	0.16	614944.24	657331.86		
3608.98	0.52	220.20	3608.84	1.54	-3.70	-1.20	0.02	614943.60	657331.30		
3703.45	0.54	230.58	3703.30	2.22	-4.31	-1.82	0.10	614942.99	657330.68		
3797.74	0.50	227.29	3797.59	2.92	-4.87	-2.47	0.05	614942.43	657330.03		
3891.72	0.55	222.15	3891.57	3.57	-5.49	-3.07	0.07	614941.81	657329.43		
3986.05	0.70	223.63	3985.89	4.34	-6.24	-3.77	0.16	614941.06	657328.73		
4080.28	0.82	227.24	4080.11	5.31	-7.11	-4.67	0.14	614940.19	657327.83		
4174.81	2.68	209.24	4174.59	7.11	-9.50	-6.24	2.03	614937.80	657326.26		

5D Survey Report

Survey Points: (Relative to Slot centre)(TVD relative to Kelly Bushing)										
MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	VS (US ft)	N.Offset (US ft)	E.Offset (US ft)	DLS (°/100US ft)	Northing (US ft)	Easting (US ft)	Comment
4268.97	4.61	213.64	4268.56	10.74	-14.57	-9.41	2.07	614932.73	657323.09	
4362.88	5.86	223.32	4362.08	16.73	-21.21	-14.80	1.63	614926.09	657317.70	
4457.25	6.07	223.68	4455.94	24.12	-28.33	-21.55	0.23	614918.97	657310.95	
4551.30	5.94	224.41	4549.47	31.60	-35.40	-28.40	0.16	614911.90	657304.10	
4645.35	5.91	225.55	4643.02	39.09	-42.28	-35.27	0.13	614905.02	657297.23	
4739.75	4.23	224.31	4737.04	45.52	-48.17	-41.17	1.79	614899.13	657291.33	
4834.17	3.78	223.84	4831.23	50.53	-52.91	-45.76	0.47	614894.39	657286.74	
4928.32	3.59	222.70	4925.19	55.08	-57.32	-49.91	0.22	614889.98	657282.59	
5022.62	4.38	223.01	5019.26	59.97	-62.12	-54.37	0.84	614885.18	657278.13	
5116.92	4.43	222.16	5113.28	65.36	-67.46	-59.27	0.09	614879.84	657273.23	
5211.18	4.31	222.28	5207.27	70.67	-72.78	-64.10	0.14	614874.52	657268.40	
5305.33	4.28	221.56	5301.15	75.84	-78.02	-68.81	0.07	614869.28	657263.69	
5399.63	5.08	220.43	5395.14	81.41	-83.83	-73.85	0.86	614863.47	657258.65	
5493.82	5.02	220.30	5488.96	87.35	-90.15	-79.22	0.06	614857.15	657253.28	
5588.00	5.11	220.66	5582.77	93.33	-96.48	-84.62	0.10	614850.82	657247.88	
5682.14	5.09	219.92	5676.54	99.32	-102.86	-90.03	0.07	614844.44	657242.47	
5776.21	5.36	220.18	5770.22	105.42	-109.42	-95.55	0.28	614837.88	657236.95	
5870.30	5.41	220.51	5863.89	111.74	-116.15	-101.26	0.06	614831.15	657231.24	
5964.25	5.28	219.43	5957.44	117.97	-122.85	-106.88	0.17	614824.45	657225.62	
6058.28	5.14	219.69	6051.08	124.00	-129.43	-112.32	0.15	614817.87	657220.18	
6152.83	4.65	217.72	6145.28	129.62	-135.72	-117.37	0.55	614811.58	657215.13	
6247.28	5.45	215.36	6239.36	135.16	-142.41	-122.31	0.87	614804.89	657210.19	
6341.14	5.02	223.50	6332.83	141.17	-149.02	-127.71	0.91	614798.28	657204.79	
6435.43	5.13	224.49	6426.75	147.50	-155.02	-133.51	0.15	614792.28	657198.99	
6529.56	5.01	221.90	6520.52	153.75	-161.09	-139.20	0.27	614786.21	657193.30	
6623.99	4.92	220.53	6614.59	159.69	-167.23	-144.59	0.16	614780.07	657187.91	
6718.14	5.89	223.10	6708.32	166.20	-173.83	-150.51	1.07	614773.47	657181.99	
6812.29	5.92	221.02	6801.97	173.35	-181.03	-157.01	0.23	614766.27	657175.49	
6906.70	4.47	219.06	6895.99	179.45	-187.56	-162.52	1.55	614759.74	657169.98	
7001.08	4.15	218.31	6990.10	184.39	-193.10	-166.96	0.35	614754.20	657165.54	
7095.42	5.01	219.29	7084.14	189.65	-198.97	-171.69	0.92	614748.33	657160.81	
7189.59	4.87	217.88	7177.96	195.28	-205.30	-176.74	0.20	614742.00	657155.76	
7283.88	5.17	227.31	7271.89	201.40	-211.34	-182.32	0.93	614735.96	657150.18	
7377.93	5.22	228.08	7365.56	208.21	-217.07	-188.62	0.09	614730.23	657143.88	
7472.11	5.47	232.58	7459.33	215.46	-222.66	-195.37	0.52	614724.64	657137.13	
7566.26	5.53	222.98	7553.05	222.65	-228.70	-202.02	0.98	614718.60	657130.48	
7660.32	4.57	215.78	7646.74	228.50	-235.06	-207.30	1.22	614712.24	657125.20	
7754.42	4.47	212.82	7740.55	233.24	-241.18	-211.48	0.27	614706.12	657121.02	
7848.52	4.73	220.32	7834.35	238.29	-247.22	-215.98	0.69	614700.08	657116.52	
7942.99	4.62	216.88	7928.50	243.64	-253.24	-220.79	0.32	614694.06	657111.71	
8037.01	4.26	223.86	8022.24	248.83	-258.78	-225.48	0.69	614688.52	657107.02	
8131.46	4.39	214.92	8116.42	253.83	-264.28	-229.98	0.73	614683.02	657102.52	
8225.38	5.06	220.74	8210.02	259.14	-270.37	-234.74	0.87	614676.93	657097.76	
8319.37	4.92	218.11	8303.66	264.91	-276.68	-239.94	0.28	614670.62	657092.56	
8414.48	4.88	214.01	8398.42	270.29	-283.25	-244.72	0.37	614664.05	657087.78	
8507.55	5.70	221.32	8491.09	276.16	-289.99	-249.98	1.14	614657.31	657082.52	
8601.96	6.20	227.76	8584.99	283.65	-296.94	-256.85	0.89	614650.36	657075.65	
8695.85	4.87	227.63	8678.44	290.90	-303.04	-263.55	1.43	614644.26	657068.95	
8790.06	4.53	223.55	8772.34	296.90	-308.43	-269.06	0.50	614638.87	657063.44	
8866.90	4.57	222.23	8848.94	301.45	-312.89	-273.21	0.15	614634.41	657059.29	Gyro Tie-In
8963.00	5.61	229.76	8944.66	308.13	-318.76	-279.37	1.28	614628.54	657053.13	
9010.00	6.15	234.67	8991.41	312.20	-321.70	-283.18	1.57	614625.60	657049.32	
9057.00	11.17	234.14	9037.86	318.31	-325.83	-288.93	10.68	614621.47	657043.57	
9104.00	18.58	234.17	9083.25	328.70	-332.89	-298.70	15.77	614614.41	657033.80	
9151.00	23.75	233.93	9127.07	343.31	-342.85	-312.43	11.00	614604.45	657020.07	
9198.00	27.70	234.84	9169.40	360.94	-354.72	-329.02	8.45	614592.58	657003.48	
9246.00	31.96	237.03	9211.03	381.90	-368.06	-348.81	9.16	614579.24	656983.69	
9295.00	35.27	238.79	9251.83	406.14	-382.46	-371.80	7.04	614564.84	656960.70	
9340.00	40.27	240.51	9287.39	431.13	-396.36	-395.58	11.35	614550.94	656936.92	

5D Survey Report

Survey Points: (Relative to Slot centre)(TVD relative to Kelly Bushing)										
MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	VS (US ft)	N.Offset (US ft)	E.Offset (US ft)	DLS (°/100US ft)	Northing (US ft)	Easting (US ft)	Comment
9434.00	55.03	241.00	9350.54	494.51	-430.17	-456.05	15.71	614517.13	656876.45	
9481.00	61.44	241.14	9375.27	531.12	-449.49	-491.00	13.64	614497.81	656841.50	
9528.00	66.57	241.07	9395.87	569.85	-469.90	-527.98	10.92	614477.40	656804.52	
9575.00	72.20	241.16	9412.41	610.18	-491.14	-566.48	11.98	614456.16	656766.02	
9622.00	76.77	241.20	9424.98	651.73	-512.96	-606.15	9.72	614434.34	656726.35	
9669.00	80.70	240.92	9434.16	693.98	-535.26	-646.48	8.38	614412.04	656686.02	
9718.00	84.54	240.88	9440.45	738.47	-558.89	-688.93	7.84	614388.41	656643.57	
9761.00	87.09	242.25	9443.59	777.93	-579.31	-726.64	6.73	614367.99	656605.86	
9851.00	87.76	244.32	9447.63	861.68	-619.73	-806.94	2.42	614327.57	656525.56	
9942.00	88.39	247.06	9450.69	947.72	-657.16	-889.82	3.09	614290.14	656442.68	
10031.00	89.23	249.28	9452.54	1033.06	-690.25	-972.41	2.67	614257.05	656360.09	
10123.00	89.21	250.58	9453.79	1122.05	-721.82	-1058.82	1.41	614225.48	656273.68	
10213.00	88.54	252.84	9455.56	1209.76	-750.05	-1144.25	2.62	614197.25	656188.25	
10301.00	88.88	255.85	9457.54	1296.32	-773.79	-1228.95	3.44	614173.51	656103.55	
10392.00	88.65	259.19	9459.50	1386.59	-793.45	-1317.77	3.68	614153.85	656014.73	
10486.00	88.51	262.85	9461.83	1480.36	-808.11	-1410.57	3.90	614139.19	655921.93	
10580.00	88.51	266.36	9464.28	1574.32	-816.95	-1504.11	3.73	614130.35	655828.39	
10674.00	88.36	269.55	9466.84	1668.11	-820.30	-1598.00	3.40	614127.00	655734.50	
10768.00	90.16	270.35	9468.06	1761.69	-820.38	-1691.99	2.10	614126.92	655640.51	
10863.00	90.98	270.76	9467.11	1856.17	-819.46	-1786.98	0.97	614127.84	655545.52	
10957.00	89.37	270.59	9466.82	1949.64	-818.36	-1880.97	1.72	614128.94	655451.53	
11051.00	90.35	270.33	9467.05	2043.14	-817.60	-1974.97	1.08	614129.70	655357.53	
11144.00	89.92	268.48	9466.84	2135.81	-818.57	-2067.96	2.04	614128.73	655264.54	
11238.00	87.83	267.61	9468.68	2229.62	-821.77	-2161.88	2.41	614125.53	655170.62	
11332.00	88.25	267.53	9471.90	2323.44	-825.76	-2255.74	0.45	614121.54	655076.76	
11426.00	89.15	267.29	9474.03	2417.30	-830.00	-2349.62	0.99	614117.30	654982.88	
11520.00	89.71	269.79	9474.96	2511.06	-832.40	-2443.57	2.73	614114.90	654888.93	
11615.00	89.64	270.50	9475.50	2605.62	-832.16	-2538.57	0.75	614115.14	654793.93	
11708.00	89.36	271.02	9476.31	2698.08	-830.92	-2631.56	0.64	614116.38	654700.94	
11802.00	90.27	269.74	9476.62	2791.59	-830.30	-2725.55	1.67	614117.00	654606.95	
11896.00	88.03	269.32	9478.01	2885.23	-831.07	-2819.53	2.42	614116.23	654512.97	
11990.00	88.24	269.55	9481.07	2978.85	-832.00	-2913.48	0.33	614115.30	654419.02	
12085.00	89.01	269.05	9483.35	3073.50	-833.16	-3008.44	0.97	614114.14	654324.06	
12188.00	87.44	268.46	9486.54	3176.18	-835.39	-3111.37	1.63	614111.91	654221.13	
12282.00	87.44	267.75	9490.74	3269.90	-838.50	-3205.22	0.75	614108.80	654127.28	
12377.00	87.09	269.85	9495.27	3364.54	-840.49	-3300.09	2.24	614106.81	654032.41	
12470.00	88.54	269.56	9498.82	3457.10	-840.96	-3393.01	1.59	614106.34	653939.49	
12564.00	88.79	269.11	9501.01	3550.75	-842.06	-3486.98	0.55	614105.24	653845.52	
12658.00	89.25	269.11	9502.62	3644.45	-843.51	-3580.96	0.49	614103.79	653751.54	
12752.00	89.12	270.44	9503.95	3738.05	-843.88	-3674.94	1.42	614103.42	653657.56	
12846.00	88.00	270.48	9506.32	3831.53	-843.13	-3768.91	1.19	614104.17	653563.59	
12940.00	88.07	270.39	9509.54	3924.99	-842.42	-3862.85	0.12	614104.88	653469.65	
13034.00	89.25	270.14	9511.74	4018.50	-841.98	-3956.82	1.28	614105.32	653375.68	
13128.00	89.21	269.69	9513.00	4112.09	-842.12	-4050.81	0.48	614105.18	653281.69	
13222.00	90.03	269.51	9513.62	4205.73	-842.78	-4144.81	0.89	614104.52	653187.69	
13315.00	90.38	269.47	9513.29	4298.39	-843.61	-4237.81	0.38	614103.69	653094.69	
13410.00	91.38	269.46	9511.83	4393.03	-844.49	-4332.79	1.05	614102.81	652999.71	
13503.00	91.05	269.47	9509.86	4485.68	-845.36	-4425.76	0.36	614101.94	652906.74	
13598.00	89.21	269.01	9509.64	4580.36	-846.62	-4520.75	2.00	614100.68	652811.75	
13692.00	88.78	270.79	9511.29	4673.94	-846.78	-4614.73	1.95	614100.52	652717.77	
13786.00	90.47	270.89	9511.91	4767.38	-845.41	-4708.72	1.80	614101.89	652623.78	
13871.00	90.34	270.73	9511.31	4851.88	-844.20	-4793.71	0.24	614103.10	652538.79	
13965.00	93.14	271.11	9508.45	4945.25	-842.70	-4887.64	3.01	614104.60	652444.86	
14059.00	92.93	270.30	9503.48	5038.59	-841.54	-4981.50	0.89	614105.76	652351.00	
14153.00	92.31	270.42	9499.18	5132.02	-840.95	-5075.40	0.67	614106.35	652257.10	
14247.00	93.50	270.07	9494.42	5225.44	-840.55	-5169.28	1.32	614106.75	652163.22	
14342.00	93.99	268.74	9488.21	5319.90	-841.53	-5264.07	1.49	614105.77	652068.43	
14436.00	92.80	268.99	9482.64	5413.47	-843.39	-5357.88	1.29	614103.91	651974.62	
14530.00	92.17	267.81	9478.57	5507.18	-846.02	-5451.75	1.42	614101.28	651880.75	

5D Survey Report

Survey Points: (Relative to Slot centre)(TVD relative to Kelly Bushing)										
MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	VS (US ft)	N.Offset (US ft)	E.Offset (US ft)	DLS (°/100US ft)	Northing (US ft)	Easting (US ft)	Comment
14624.00	91.40	268.44	9475.64	5600.95	-849.09	-5545.66	1.06	614098.21	651786.84	
14727.00	90.64	270.21	9473.81	5703.58	-850.30	-5648.63	1.87	614097.00	651683.87	
14822.00	91.01	270.25	9472.44	5798.11	-849.92	-5743.62	0.39	614097.38	651588.88	
14916.00	90.37	269.76	9471.31	5891.69	-849.91	-5837.61	0.86	614097.39	651494.89	
15010.00	90.54	269.53	9470.56	5985.32	-850.50	-5931.61	0.30	614096.80	651400.89	
15104.00	90.65	269.35	9469.58	6078.98	-851.41	-6025.60	0.22	614095.89	651306.90	
15198.00	91.33	269.25	9467.96	6172.65	-852.56	-6119.57	0.73	614094.74	651212.93	
15292.00	91.97	268.68	9465.25	6266.34	-854.26	-6213.52	0.91	614093.04	651118.98	
15387.00	90.58	269.59	9463.14	6361.01	-855.69	-6308.48	1.75	614091.61	651024.02	
15474.00	90.88	268.66	9462.03	6447.73	-857.02	-6395.46	1.12	614090.28	650937.04	
15569.00	90.24	270.03	9461.10	6542.40	-858.11	-6490.45	1.59	614089.19	650842.05	
15663.00	90.70	269.15	9460.33	6636.04	-858.78	-6584.44	1.06	614088.52	650748.06	
15757.00	89.74	270.25	9459.97	6729.66	-859.27	-6678.44	1.55	614088.03	650654.06	
15851.00	89.51	269.46	9460.59	6823.27	-859.51	-6772.44	0.88	614087.79	650560.06	
15945.00	90.04	269.87	9460.96	6916.90	-860.06	-6866.43	0.71	614087.24	650466.07	
16039.00	93.59	270.81	9457.98	7010.36	-859.50	-6960.37	3.91	614087.80	650372.13	
16133.00	91.33	270.61	9453.94	7103.74	-858.34	-7054.27	2.41	614088.96	650278.23	
16227.00	89.51	270.42	9453.26	7197.23	-857.49	-7148.26	1.95	614089.81	650184.24	
16321.00	89.82	270.31	9453.80	7290.75	-856.90	-7242.25	0.35	614090.40	650090.25	
16415.00	89.58	271.24	9454.30	7384.21	-855.62	-7336.24	1.02	614091.68	649996.26	
16510.00	89.58	271.75	9454.99	7478.52	-853.15	-7431.21	0.54	614094.15	649901.29	
16604.00	89.37	271.05	9455.85	7571.85	-850.85	-7525.17	0.78	614096.45	649807.33	
16698.00	91.01	270.36	9455.54	7665.31	-849.69	-7619.16	1.89	614097.61	649713.34	
16792.00	91.30	270.22	9453.65	7758.83	-849.22	-7713.14	0.34	614098.08	649619.36	
16877.00	91.05	270.27	9451.91	7843.40	-848.85	-7798.12	0.30	614098.45	649534.38	
16971.00	92.31	270.30	9449.15	7936.90	-848.39	-7892.08	1.34	614098.91	649440.42	
17065.00	91.61	269.64	9445.93	8030.43	-848.44	-7986.02	1.02	614098.86	649346.48	
17160.00	91.96	270.44	9442.98	8124.95	-848.37	-8080.98	0.92	614098.93	649251.52	
17254.00	90.28	270.17	9441.14	8218.47	-847.87	-8174.95	1.81	614099.43	649157.55	
17348.00	92.17	270.55	9439.13	8311.97	-847.28	-8268.93	2.05	614100.02	649063.57	
17442.00	91.96	270.10	9435.74	8405.44	-846.75	-8362.86	0.53	614100.55	648969.64	
17536.00	92.59	270.86	9432.01	8498.87	-845.96	-8456.79	1.05	614101.34	648875.71	
17630.00	92.17	270.74	9428.11	8592.24	-844.65	-8550.70	0.46	614102.65	648781.80	
17724.00	92.45	270.52	9424.32	8685.64	-843.61	-8644.61	0.38	614103.69	648687.89	
17818.00	92.03	270.41	9420.64	8779.08	-842.85	-8738.54	0.46	614104.45	648593.96	
17890.00	91.40	270.65	9418.49	8850.66	-842.19	-8810.50	0.94	614105.11	648522.00	Last WFT SVY
17957.00	91.40	270.65	9416.85	8917.26	-841.43	-8877.48	0.00	614105.87	648455.02	PTB