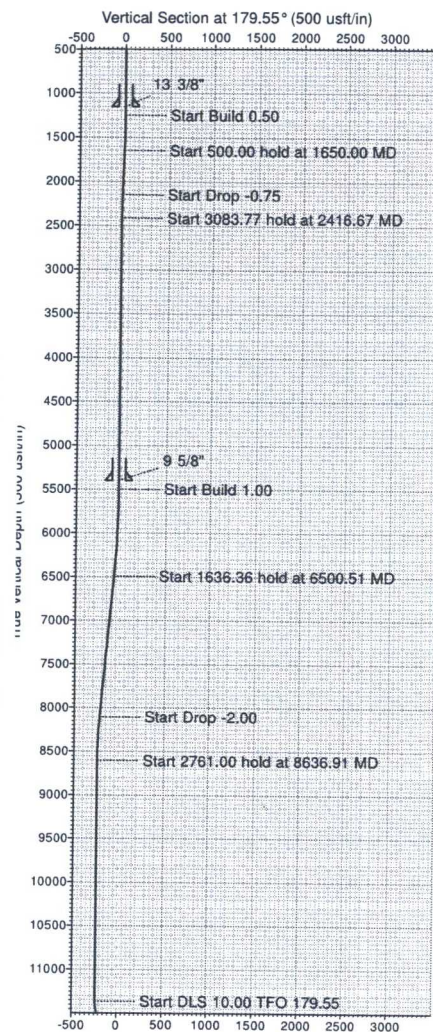




Marathon Oil
Lea County, NM
Flowmaster 24-34-15 (4-5-8)
TBU No. 5H
Prelim Plan B
GL: 3520' + KB: 26.5' (H&P480)

US State Plane 1927 (Exact solution)
NAD 1927 (NADCON CONUS)
Clarke 1866
New Mexico East 3001
Mean Sea Level

RKB Elevation: Well @ 3546.50usft (GL: 3520' + KB: 26.5' (H&P480))

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Spot
0.00	0.00	446206.72	769431.32	32° 13' 25.4511 N	103° 27' 43.4789 W	

SECTION DETAILS

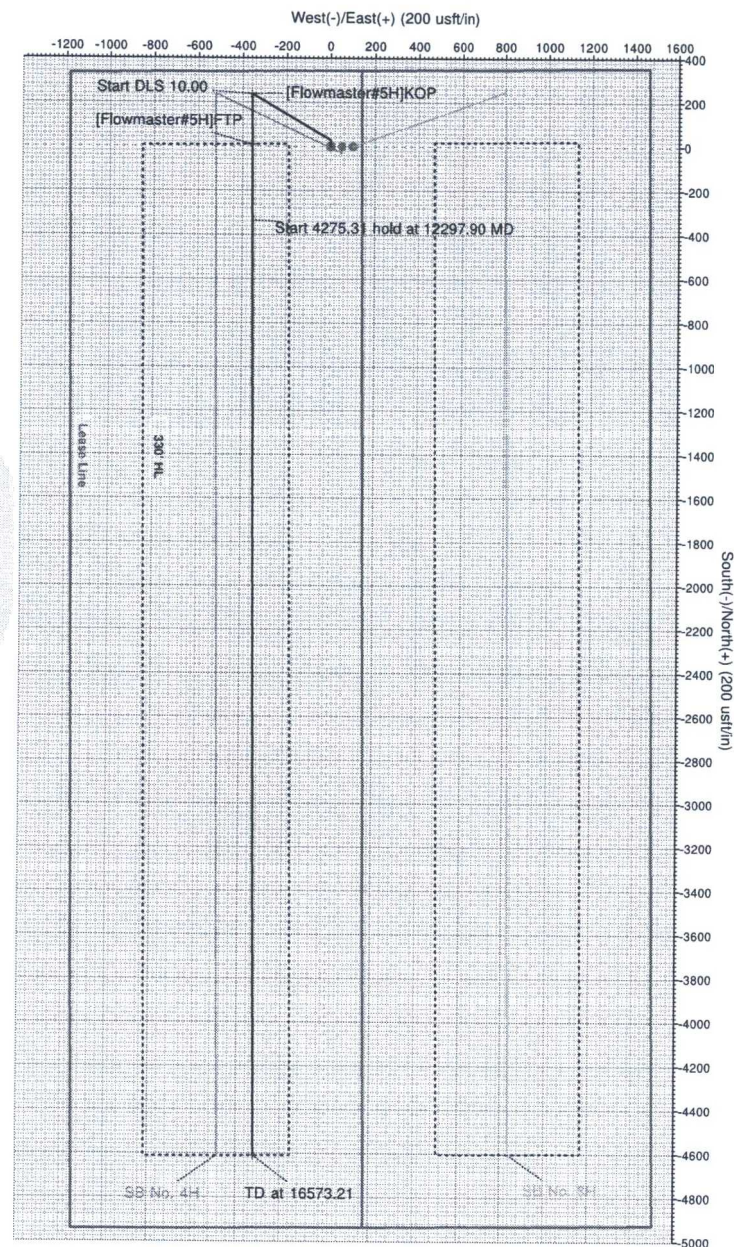
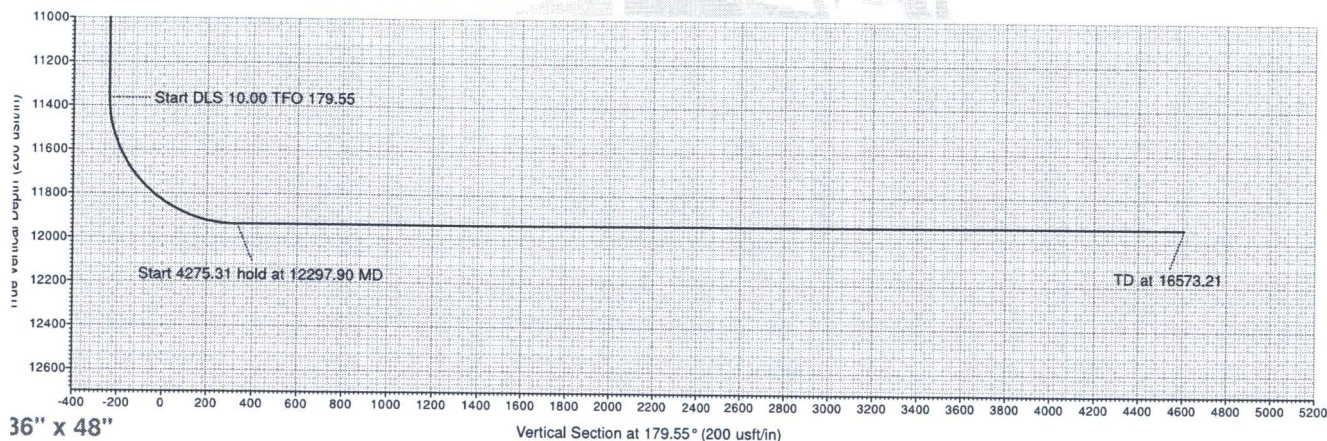
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	Vsect
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	1250.00	0.00	0.00	1250.00	0.00	0.00	0.00	0.00
3	1650.00	2.00	0.00	1649.92	6.98	0.00	0.50	-6.98
4	2150.00	2.00	0.00	2149.61	24.43	0.00	0.00	-24.43
5	2416.67	0.00	0.00	2416.23	29.08	0.00	0.75	-29.08
6	5500.44	0.00	0.00	5500.00	29.08	0.00	0.00	-29.08
7	6500.51	10.00	300.25	6495.00	72.94	-75.21	1.00	-73.52
8	8136.87	10.00	300.25	8106.50	216.07	-320.70	0.00	-218.59
9	8636.91	0.00	0.00	8604.00	238.00	-358.30	2.00	-240.81
10	11397.91	0.00	0.00	11365.00	238.00	-358.30	0.00	-240.81
11	12297.90	90.00	179.55	11937.96	-334.93	-353.82	10.00	332.15
12	16573.21	90.00	179.55	11938.00	-4610.11	-320.42	0.00	4607.45

WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

Name	TVD	+N/-S	+E/-W	Northing	Easting
[Flowmaster#5H]FTP	0.00	9.41	-356.53	446216.13	769074.79
[Flowmaster#5H]KOP	11365.00	238.00	-358.30	446444.72	769073.02
[Flowmaster#5H]LTP/BHL	11938.00	-4610.11	-320.42	441596.61	769110.90



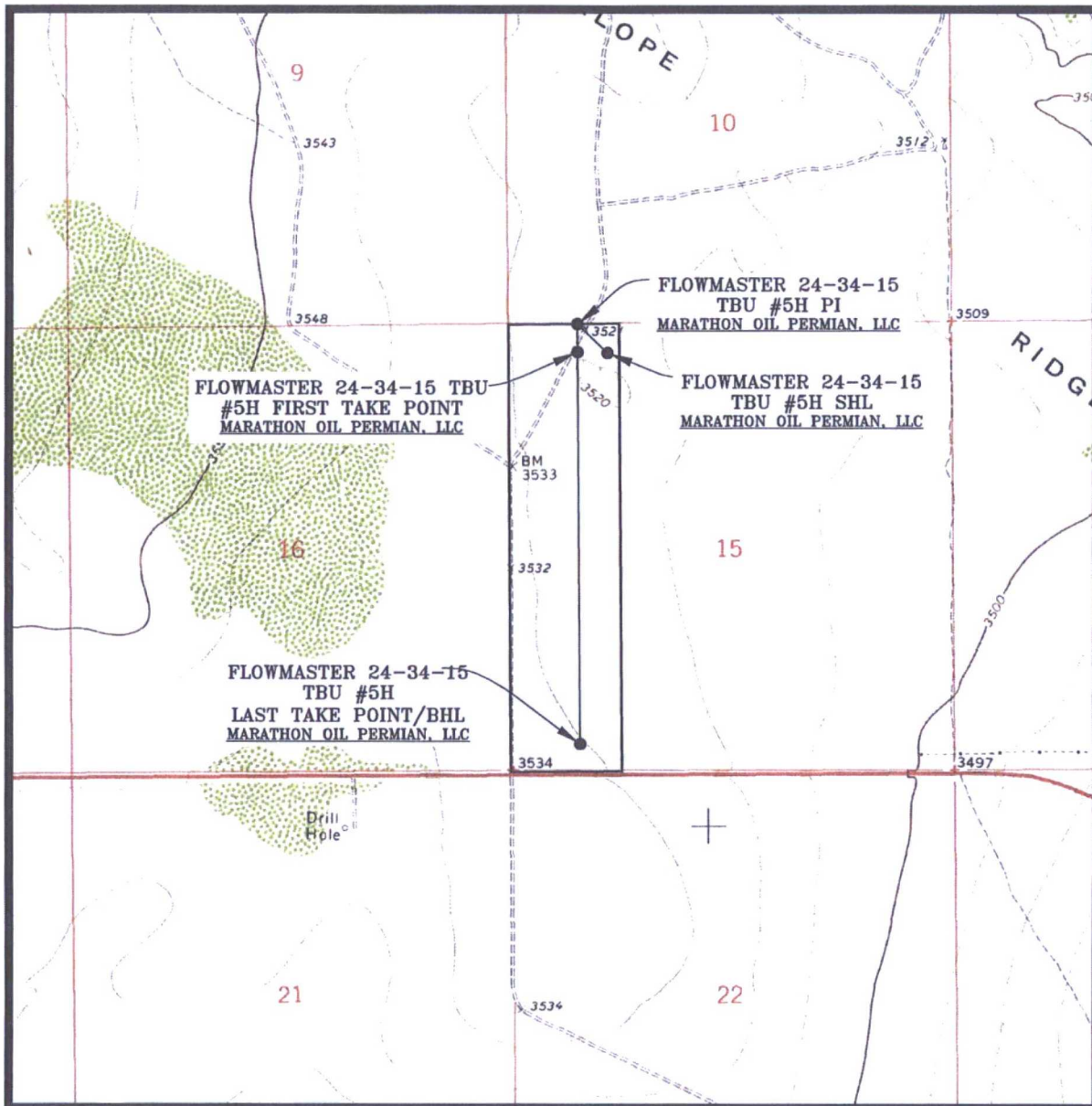
Target Line: 11938' TVD @ 0' VS: 90° INC



Azimuths to Grid North
True North: -0.47°
Magnetic North: 6.32°
Magnetic Field
Strength: 48093.0nT
Dip Angle: 60.00°
Date: 10/24/2017
Model: HDGM

Azimuth Corrections
Total Magnetic Corr. (M to G): 6.32°
Declination (M to T): 6.78° East

LOCATION VERIFICATION MAP

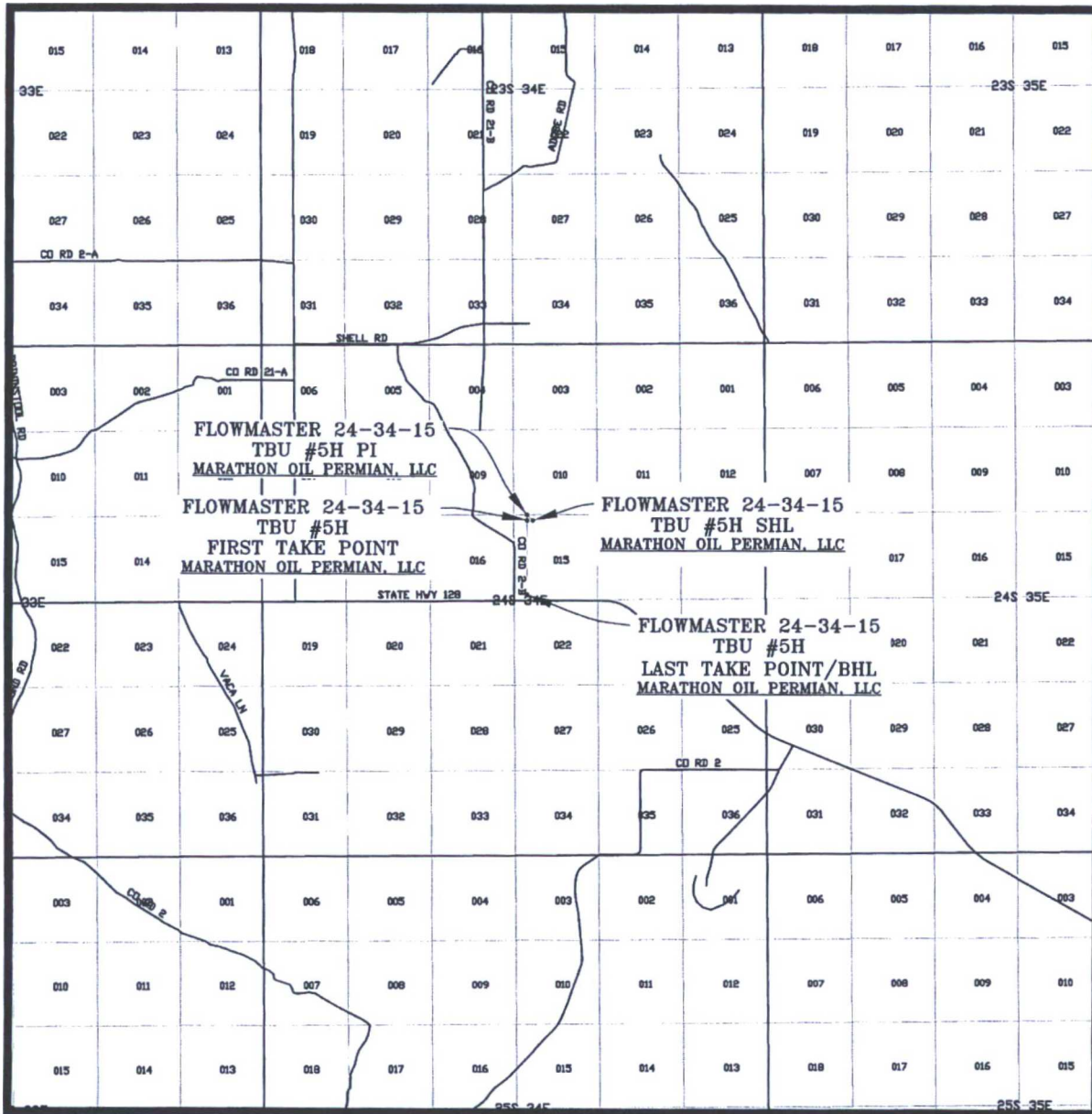


SEC. 15 TWP. 24-S RGE. 34-E
SURVEY: N.M.P.M.
COUNTY: LEA
DESCRIPTION: 343' FNL & 1183' FWL
ELEVATION: 3520'
OPERATOR: MARATHON OIL PERMIAN, LLC
LEASE: FLOWMASTER 24-34-15
U.S.G.S. TOPOGRAPHIC MAP: WOODLEY FLAT, N.M.

SCALE: 1" = 2000'
CONTOUR INTERVAL = 20'

PREPARED BY:
R-SQUARED GLOBAL, LLC
1309 LOUISVILLE AVENUE, MONROE, LA 71201
318-323-8900 OFFICE
JOB No. R3799_003

VICINITY MAP



SEC. 15 TWP. 24-S RGE. 34-E

SURVEY: N.M.P.M.

COUNTY: LEA

DESCRIPTION: 343' FNL & 1183' FWL

ELEVATION: 3520'

OPERATOR: MARATHON OIL PERMIAN, LLC

LEASE: FLOWMASTER 24-34-15

U.S.G.S. TOPOGRAPHIC MAP: WOODLEY FLAT, N.M.

SCALE: 1" = 2 MILES

PREPARED BY:
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