

Submit 1 Copy To Appropriate District Office
District I - (575) 393-6161
1625 N. French Dr., Hobbs, NM 88240
District II - (575) 748-1283
811 S. First St., Artesia, NM 88210
District III - (505) 334-6178
1000 Rio Brazos Rd., Aztec, NM 87410
District IV - (505) 476-3460
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy, Minerals and Natural Resources

OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-103
Revised July 18, 2013

SUNDRY NOTICES AND REPORTS ON WELLS (DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)		WELL API NO. 30-015-44689
1. Type of Well: Oil Well ☒ Gas Well ☐ Other ☐		5. Indicate Type of Lease STATE ☐ FEE ☒
2. Name of Operator Marathon Oil Permian LLC.		6. State Oil & Gas Lease No.
3. Address of Operator 5555 San Felipe St, Houston, TX 77056		7. Lease Name or Unit Agreement Name Catapult Fee 23 26 1 TB
4. Well Location Unit Letter <u>O</u> : <u>463</u> feet from the <u>South</u> line and <u>1467</u> feet from the <u>East</u> line Section <u>1</u> Township <u>23S</u> Range <u>26E</u> NMPM County <u>Eddy</u>		8. Well Number <u>6H</u>
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 3219		9. OGRID Number 372098
		10. Pool name or Wildcat Carlsbad; Bone Spring, South

12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:

PERFORM REMEDIAL WORK ☐ PLUG AND ABANDON ☐
TEMPORARILY ABANDON ☐ CHANGE PLANS ☐
PULL OR ALTER CASING ☐ MULTIPLE COMPL ☐
DOWNHOLE COMMINGLE ☐
CLOSED-LOOP SYSTEM ☐
OTHER: ☐

SUBSEQUENT REPORT OF:

REMEDIAL WORK ☐ ALTERING CASING ☐
COMMENCE DRILLING OPNS. ☐ P AND A ☐
CASING/CEMENT JOB ☐
OTHER: ☐

13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 19.15.7.14 NMAC. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

Marathon Oil Permian LLC. respectfully requests to change the SHL of this well
from: 463' FSL 1467' FEL of O-1-T23S-R26E
to: 337' FSL 1387' FEL of O-36-T22S-R26E

Attached is an updated C-102, Directional and GCP.

NM OIL CONSERVATION
ARTESIA DISTRICT

APR 25 2018

RECEIVED

Spud Date:

Rig Release Date:

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE

Melissa Szudera

TITLE Regulatory Compliance Representative

DATE 4/23/2018

Type or print name

Melissa Szudera

E-mail address: mszudera@marathonoil.com

PHONE: 713-296-3179

For State Use Only

APPROVED BY:

Raymond M. Padany

TITLE

Geologist

DATE

5-7-18

Conditions of Approval (if any):

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone: (575) 748-1283 Fax: (575) 748-9720
District III
1000 Rio Brazos Road, Aztec, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-102
Revised August 1, 2011
Submit one copy to appropriate
District Office

☒ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-015-44689		² Pool Code 9670	³ Pool Name CARLSBAD; BONE SPRING, SOUTH
⁴ Property Code	⁵ Property Name CATAPULT FEE 23-26-1 TB		⁶ Well Number 6H
⁷ OGRID No. 372098	⁸ Operator Name MARATHON OIL PERMIAN LLC		⁹ Elevation 3217'

¹⁰ Surface Location

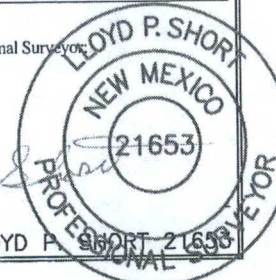
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
O	36	T22S	R26E		337	SOUTH	1387	EAST	EDDY

¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
P	1	T23S	R26E		330	SOUTH	1009	EAST	EDDY

¹² Dedicated Acres 160.09	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
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No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.

¹⁶ SECTION 35 SECTION 36 T-22-S SECTION 2 SECTION 1 T-23-S SURFACE HOLE LOCATION 337' FSL 1387' FEL, SECTION 36 NAD 83, SPCS NM EAST X:569495.11' / Y:488179.22' LAT:32.34204306N / LON:104.24215860W NAD 27, SPCS NM EAST X:528313.43' / Y:488120.19' LAT:32.34192489N / LON:104.24165631W FIRST TAKE POINT 330' FSL 998' FEL, SECTION 1 NAD 83, SPCS NM EAST X:569883.97' / Y:487512.52' LAT:32.34020948N / LON:104.24090150W NAD 27, SPCS NM EAST X:528702.27' / Y:487453.51' LAT:32.34009127N / LON:104.24039915W LAST TAKE POINT/BOTTOM HOLE LOCATION 330' FSL 1009' FEL, SECTION 1 NAD 83, SPCS NM EAST X:569873.84' / Y:482874.93' LAT:32.32746143N / LON:104.24094720W NAD 27, SPCS NM EAST X:528692.05' / Y:482816.04' LAT:32.32734316N / LON:104.24044524W CORNER COORDINATES NAD 83, SPCS NM EAST A - X: 56954.68' / Y: 487842.21' B - X: 570881.56' / Y: 487843.47' C - X: 570883.25' / Y: 482551.80' D - X: 569543.11' / Y: 482542.75' SECTION 2 SECTION 1 SECTION 11 SECTION 12 CORNER COORDINATES NAD 27, SPCS NM EAST A - X: 528373.00' / Y: 487783.19' B - X: 529699.85' / Y: 487784.43' C - X: 529701.44' / Y: 482492.91' D - X: 528361.33' / Y: 482483.87'				¹⁷ OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division. Signature  Date 04/25/2018 Printed Name Melissa Szudera E-mail Address mszudera@marathonoil.com ¹⁸ SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief. Date of Survey APRIL 24, 2018 Signature and Seal of Professional Surveyor  LLOYD P. SHORT 21653 Certificate Number LLOYD P. SHORT 21653			
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2	04/09/2018	CAP
REV.	DATE	BY

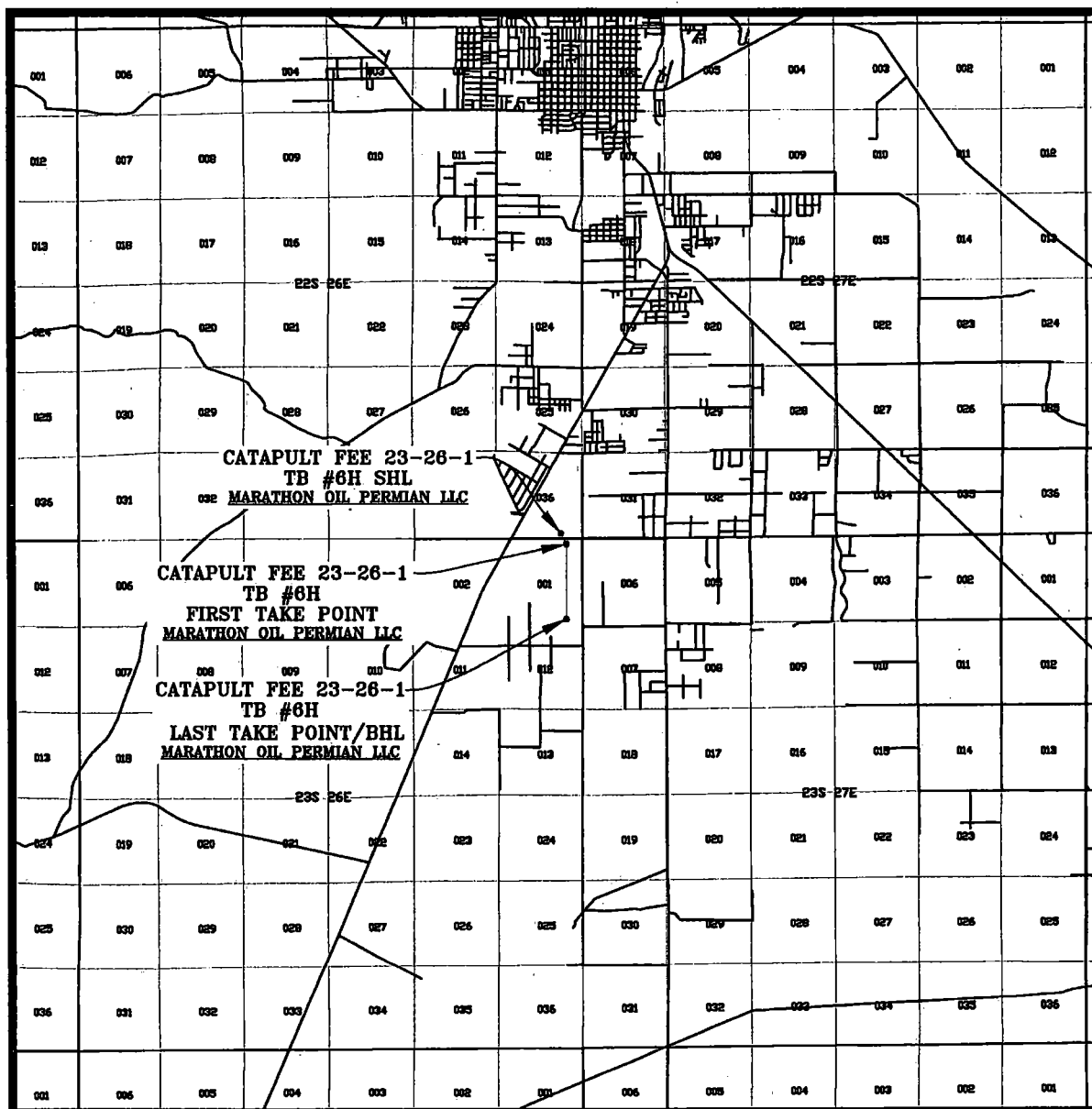
RWP 5-7-18

[illegible]

SCALE: 1" = 2000'
CONTOUR INTERVAL = 5'

PREPARED BY:
R-SQUARED GLOBAL, LLC
1309 LOUISVILLE AVENUE, MONROE, LA 71201
318-323-8900 OFFICE
JOB No. R3798_004

VICINITY MAP



SEC. 1 TWP. 23-S RGE. 26-E
SURVEY: N.M.P.M.
COUNTY: EDDY
DESCRIPTION: 337' FSL & 1387' FEL
ELEVATION: 3217'
OPERATOR: MARATHON OIL PERMIAN LLC
LEASE: CATAPULT FEE 23-26-1
U.S.G.S. TOPOGRAPHIC MAP: OTIS, N.M.

SCALE: 1" = 2 MILES

PREPARED BY:
R-SQUARED GLOBAL, LLC
1309 LOUISVILLE AVENUE, MONROE, LA 71201
318-323-6900 OFFICE
JOB No. R3798_004



Marathon Oil
Eddy County, NM
Catapult-Airport Pad
Cat TB #6H
Prelim Plan A
GL: 3217' + KB: 25' (Prec594)

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

RKB Elevation: Well @ 3242.00usft (GL: 3217' + KB: 25' (Prec594))

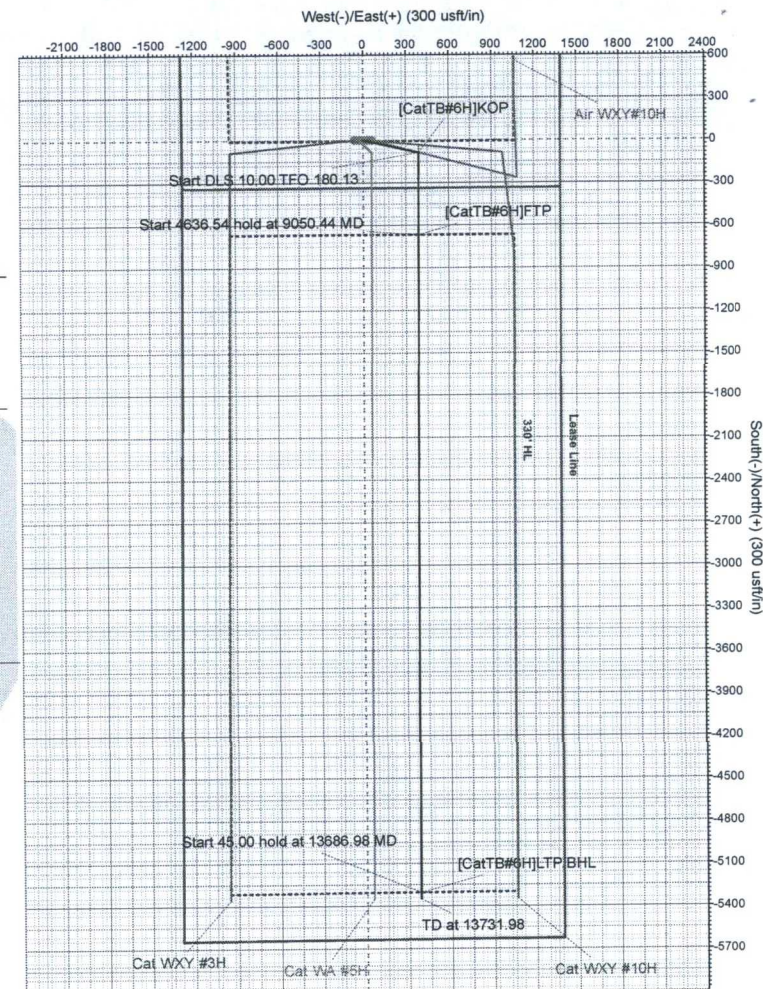
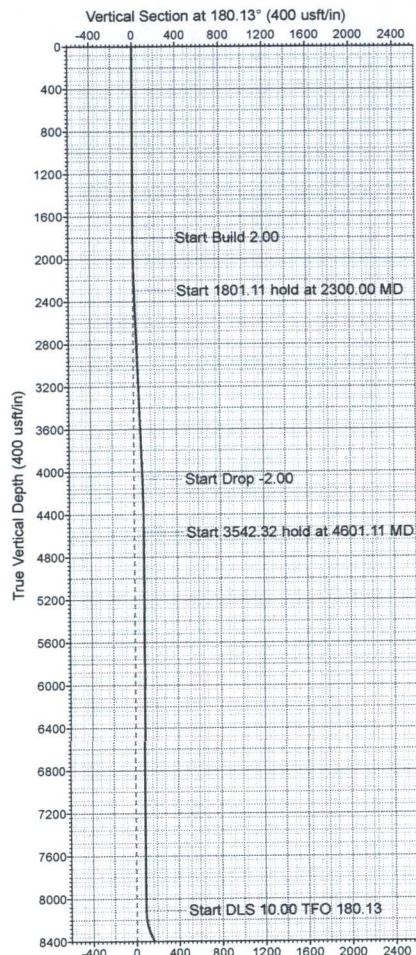
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.00	0.00	488120.19	528313.43	32.3419	-104.2417	

SECTION DETAILS

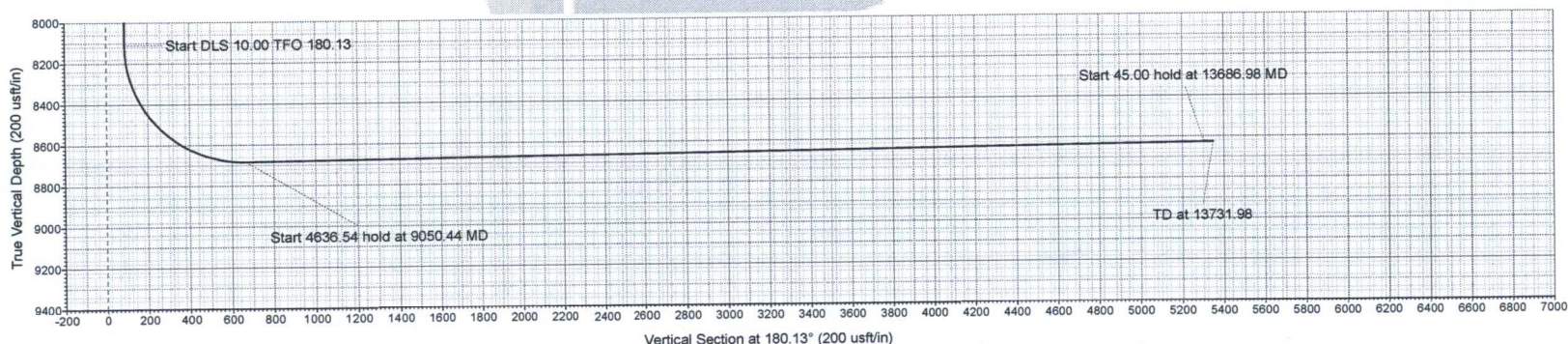
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	VSect
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	1800.00	0.00	0.00	1800.00	0.00	0.00	0.00	0.00
3	2300.00	10.00	102.72	2297.47	-9.58	42.46	2.00	9.48
4	4101.11	10.00	102.72	4071.21	-78.42	347.54	0.00	77.63
5	4601.11	0.00	0.00	4568.68	-88.00	390.00	2.00	87.11
6	8143.43	0.00	0.00	8111.00	-88.00	390.00	0.00	87.11
7	9050.44	90.70	180.13	8683.91	-667.96	388.73	10.00	667.08
8	13686.98	90.70	180.13	8627.21	-5304.15	378.62	0.00	5303.28
9	13731.98	90.70	180.13	8626.66	-5349.15	378.52	0.00	5348.27

WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

Name	TVD	+N/-S	+E/-W	Northing	Easting
[CatTB#6H]FTP	0.00	-666.68	388.84	487453.51	528702.27
[CatTB#6H]KOP	8111.00	-88.00	390.00	488032.19	528703.43
[CatTB#6H]LTP/BHL	8627.21	-5304.15	378.62	482816.04	528692.05



Target Line: 8692' TVD @ 0' VS: 90.7° INC



Azimuths to Grid North
True North: -0.05°
Magnetic North: 7.32°

Magnetic Field
Strength: 48010.3nT
Dip Angle: 60.07°
Date: 4/17/2018
Model: HDGM

Azimuth Corrections

Total Magnetic Corr. (M to G): 7.32°

Declination (M to T): 7.37° East

Database:	WellPlanner1	Local Co-ordinate Reference:	Well Cat TB #6H
Company:	Marathon Oil	TVD Reference:	Well @ 3242.00usft (GL: 3217' + KB: 25' (Prec594))
Project:	Eddy County, NM	MD Reference:	Well @ 3242.00usft (GL: 3217' + KB: 25' (Prec594))
Site:	Catapult-Airport Pad	North Reference:	Grid
Well:	Cat TB #6H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Prelim Plan A		

Project	Eddy County, NM		
Map System:	US State Plane 1927 (Exact solution)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	New Mexico East 3001		

Site	Catapult-Airport Pad		
Site Position:		Northing:	488,120.19 usft
From:	Map	Easting:	528,313.43 usft
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "
		Latitude:	32.3419
		Longitude:	-104.2417
		Grid Convergence:	0.05 °

Well	Cat TB #6H		
Well Position	+N/-S	0.00 usft	Northing: 488,120.19 usft
	+E/-W	0.00 usft	Easting: 528,313.43 usft
Position Uncertainty	0.00 usft	Wellhead Elevation:	Latitude: 32.3419
			Longitude: -104.2417
			Ground Level: 3,217.00 usft

Wellbore	OH		
Magnetics	Model Name	Sample Date	Declination (°)
	HDGM	4/17/2018	7.37
			Dip Angle (°) 60.07
			Field Strength (nT) 48,010.30

Design	Prelim Plan A		
Audit Notes:			
Version:	Phase:	PLAN	Tie On Depth: 0.00
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)
	0.00	0.00	0.00
			Direction (°) 180.13

Plan Survey Tool Program		Date	4/17/2018
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name
1	0.00	1,150.00 Prelim Plan A (OH)	MWD+IFR1
			OWSG MWD + IFR1
2	1,150.00	5,400.00 Prelim Plan A (OH)	MWD+IFR1
			OWSG MWD + IFR1
3	5,400.00	10,000.00 Prelim Plan A (OH)	MWD+IFR1
			OWSG MWD + IFR1
4	10,000.00	13,731.98 Prelim Plan A (OH)	MWD+IFR1
			OWSG MWD + IFR1

Database:	WellPlanner1	Local Co-ordinate Reference:	Well Cat TB #6H
Company:	Marathon Oil	TVD Reference:	Well @ 3242.00usft (GL: 3217' + KB: 25' (Prec594))
Project:	Eddy County, NM	MD Reference:	Well @ 3242.00usft (GL: 3217' + KB: 25' (Prec594))
Site:	Catapult-Airport Pad	North Reference:	Grid
Well:	Cat TB #6H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Prelim Plan A		

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
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,800.00	0.00	0.00	1,800.00	0.00	0.00	0.00	0.00	0.00	0.00	
2,300.00	10.00	102.72	2,297.47	-9.58	42.46	2.00	2.00	0.00	102.72	
4,101.11	10.00	102.72	4,071.21	-78.42	347.54	0.00	0.00	0.00	0.00	
4,601.11	0.00	0.00	4,568.68	-88.00	390.00	2.00	-2.00	0.00	180.00	
8,143.43	0.00	0.00	8,111.00	-88.00	390.00	0.00	0.00	0.00	0.00	[CatTB#6H]KOP
9,050.44	90.70	180.13	8,683.92	-667.96	388.73	10.00	10.00	-19.83	180.13	
13,686.98	90.70	180.13	8,627.21	-5,304.15	378.62	0.00	0.00	0.00	0.00	[CatTB#6H]LTP/BHL
13,731.98	90.70	180.13	8,626.66	-5,349.15	378.52	0.00	0.00	0.00	0.00	

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)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
[CatTB#6H]FTP									
1,800.00	0.00	0.00	1,800.00	0.00	0.00	0.00	0.00	0.00	0.00
2,300.00	10.00	102.72	2,297.47	-9.58	42.46	9.48	2.00	2.00	0.00
4,101.11	10.00	102.72	4,071.21	-78.42	347.54	77.63	0.00	0.00	0.00
4,601.11	0.00	0.00	4,568.68	-88.00	390.00	87.11	2.00	-2.00	0.00
8,143.43	0.00	0.00	8,111.00	-88.00	390.00	87.11	0.00	0.00	0.00
[CatTB#6H]KOP									
9,050.44	90.70	180.13	8,683.92	-667.96	388.73	667.08	10.00	10.00	0.00
13,686.98	90.70	180.13	8,627.21	-5,304.15	378.62	5,303.28	0.00	0.00	0.00
[CatTB#6H]LTP/BHL									
13,731.98	90.70	180.13	8,626.66	-5,349.15	378.52	5,348.27	0.00	0.00	0.00