

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. 30-025-41816
1. Type of Well: Oil Well ☒ Gas Well ☐ Other ☐		5. Indicate Type of Lease STATE ☐ FEE ☒
2. Name of Operator EOG Resources, Inc.		6. State Oil & Gas Lease No.
3. Address of Operator P.O. Box 2267 Midland, TX 79702		7. Lease Name or Unit Agreement Name Osprey 10
4. Well Location Unit Letter M 220 feet from the South line and 190 feet from the West line Section 10 Township 25S Range 34E NMPM County Lea		8. Well Number 601H
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 3333' GR		9. OGRID Number 7377
		10. Pool name or Wildcat Red Hills; Bone Spring, East

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.

EOG Resources requests a change in casing design for this well.

Casing and cementing details attached.

HOBBS OCD

OCT 09 2014

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 Stan Wagner TITLE Regulatory Specialist DATE 10/09/2014

Type or print name Stan Wagner E-mail address: PHONE: 432-686-3689

For State Use Only

APPROVED BY: [Signature] TITLE Petroleum Engineer DATE 10/09/14

Conditions of Approval (if any):

OCT 14 2014

Revised Permit Information:

Well Name: Osprey 10 No. 601H

Location:

SL: 220' FSL & 190' FEL, Section 10, T-25-S, R-34-E, Lea Co., N.M.

BHL: 230' FNL & 380' FWL, Section 10, T-25-S, R-34-E, Lea Co., N.M.

Casing Program:

Hole Size	Interval	Csg OD	Weight	Grade	Conn	DF _{min} Collapse	DF _{min} Burst	DF _{min} Tension
12.25"	0 – 1000'	9.625"	40#	J55	STC	1.125	1.25	1.60
8.75"	0-11,350'	7"	26#	HCP-110	LTC	1.125	1.25	1.60
6.125"	0'-17,032'	4.5"	13.5#	HCP-110	BTC	1.125	1.25	1.60

Cement Program:

Depth	No. Sacks	Wt. ppg	Yld Ft ³ /ft	Slurry Description
1000'	250	13.5	1.73	Class C + 4.0% Bentonite + 0.6% CD-32 + 0.5% CaCl ₂ + 0.25 lb/sk Cello-Flake (TOC @ Surface)
	200	14.8	1.34	Class C + 0.6% FL-62 + 0.25 lb/sk Cello-Flake + 0.2% Sodium Metasilicate
11,350' DV Tool w/ ECP @ 5,300'	250	10.8	3.68	Stage 1 Lead: Class C + 15.00 lbs/sk BA-90 + 4.00% MPA-5 + 3.00% SMS + 5.00% A-10 + 1.00% BA-10A + 0.80% ASA-301 + 2.90% R-21 + 8.00 lb/sk LCM-1 + 0.005 lb/sx Static Free
	200	15.6	1.19	Stage 1 Tail: Class H + 1.0% FL-52 + 0.6% CD-32 + 0.5% SMS + 1.0% Salt + 0.3% R-3
	325	12.7	2.22	Stage 2 Lead: Class 'C' + 2.0% SMS + 10.0% Slat + 0.55% R-21 + 0.25 pps Celloflake + 0.005 pps Static Free (TOC @ Surface)
	150	14.8	1.35	Stage 2 Tail: Class 'C' + 0.60% FL-62 + 0.7% CD-32 + 0.3% SMS + 2.0% Salt + 0.10% R-3 + 0.005 pps Static Free + 0.005 gps FP-6L
17,032'	550	14.2	1.35	50:50:2 Class H + 0.65% FL-52 + 0.70% CD-32 + 1.0% EC-1 + 0.40% SMS + 2.0% Salt + 0.05% R-3 + 0.005 pps Static Free + 0.005 gps FP-6L (TOC @ 10,750')

Mud Program:

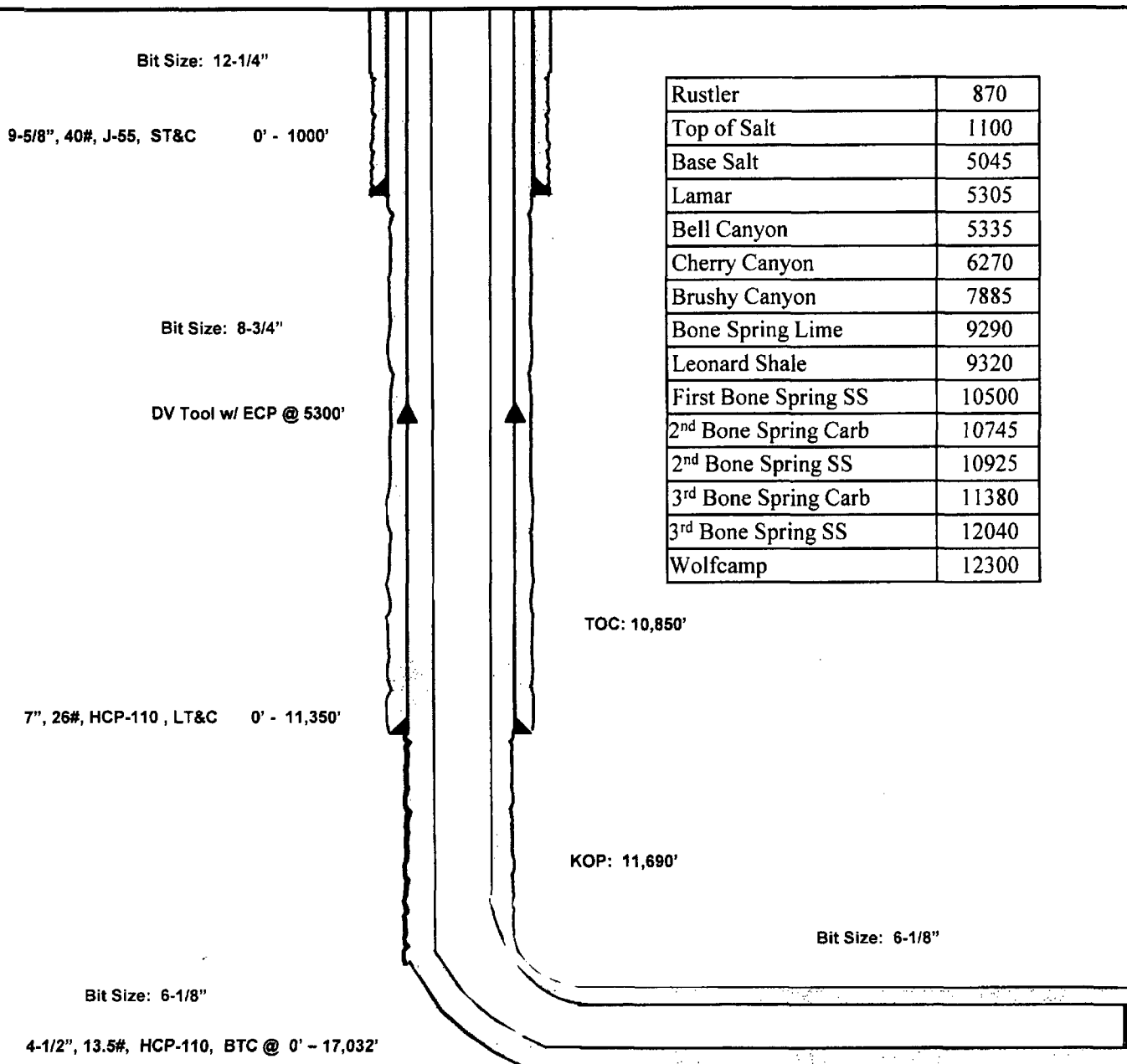
Depth	Type	Weight (ppg)	Viscosity	Water Loss
0 – 1000'	Fresh - Gel	8.6-8.8	28-34	N/c
1000' – 11,350'	Oil Base	8.7-9.4	58-68	N/c - 6
11,350' – 11,690'	Oil Base	8.7-9.4	58-68	N/c - 6
11,690' – 17,032' Lateral	Oil Base	9.0-9.5	58-68	N/c - 6

Osprey 10 #601H

220' FSL
190' FEL
Section 10
T-25-S, R-34-E

Lea County, New Mexico
Proposed Wellbore
Revised 10/9/14
API: 30-025-41816

KB: 3,363'
GL: 3,333'



Lateral: 17,032' MD, 12,180' TVD

BH Location: 230' FNL & 380' FWL
Section 10
T-25-S, R-34-E



Lea County, NM (NAD 27 NME)

Osprey 10 #601H

Cactus 123

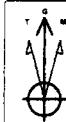
Plan #3

PROJECT DETAILS: Lea County, NM (NAD 27 NME)

Geodetic System: US State Plane 1927 (Exact solution)
Datum: NAD 1927 (NADCON CONUS)
Ellipsoid: Clarke 1866
Zone: New Mexico East 3001
System Datum: Mean Sea Level

WELL DETAILS: #601H

Ground Level: 3333.0
KB = 30 @ 3343.0m (Cactus 123)
Northing: 416103.00 Easting: 768701.00 Latitude: 32° 8' 17.729 N Longitude: 103° 27' 54.902 W



Azimuth to Grid North
True North: -0.48°
Magnetic North: 8.71°

Magnetic Field
Strength: 45289.0anT
Dip Angle: 90.08°
Date: 4/30/2014
Model: IGRF2010.4

To convert a Magnetic Direction to a Grid Direction, Add 6.71°
To convert a Magnetic Direction to a True Direction, Add 7.18° East
To convert a True Direction to a Grid Direction, Subtract 0.48°

SECTION DETAILS

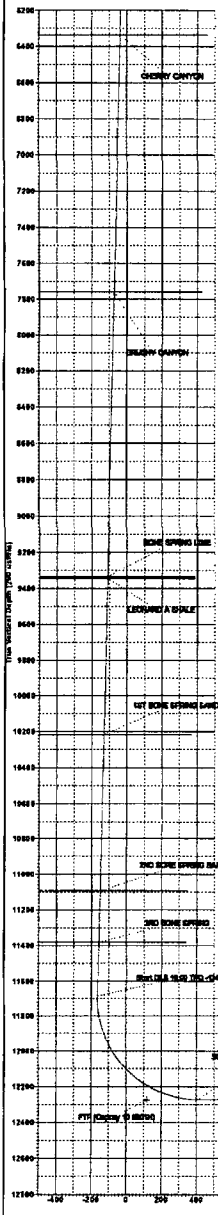
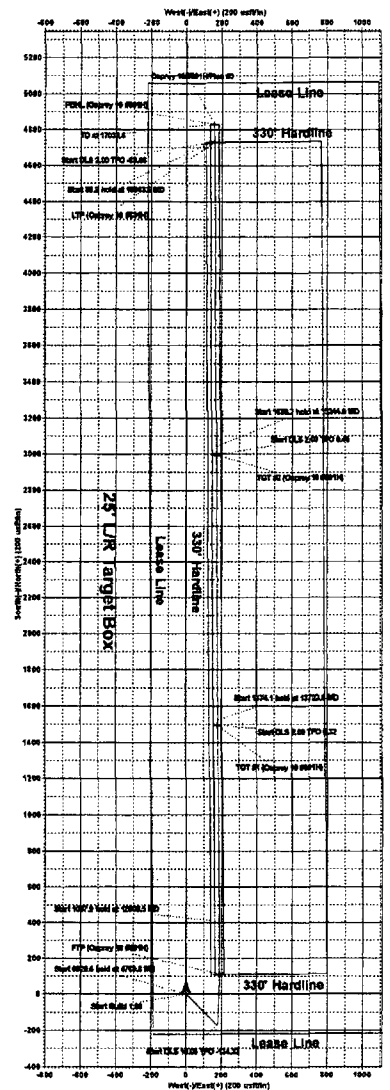
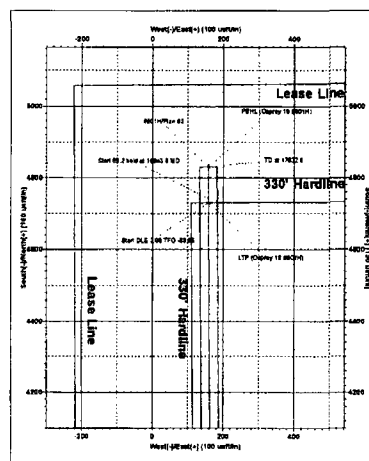
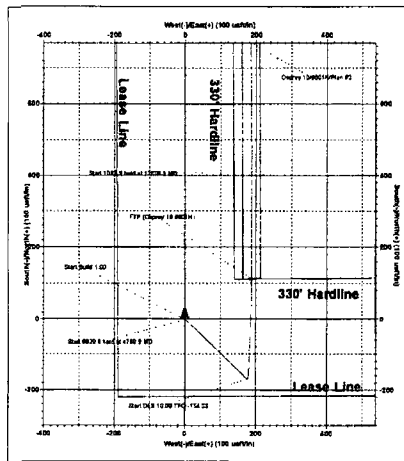
Sec	MD	Inc	Alt	TVD	+N-S	+E-W	Deg	TFace	Vsect	Target	Annotation
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0		
2	4870.0	0.00	0.00	4870.0	0.0	0.0	0.00	0.00	0.0		
3	4789.0	2.00	113.88	4769.7	-2.4	2.8	1.00	133.88	-2.3		
4	11880.4	2.00	133.88	11696.1	-170.0	176.1	0.00	0.00	-164.1		
5	12608.5	80.41	359.82	12272.9	607.1	187.1	10.00	-154.33	413.0		
6	12696.4	90.41	359.82	12265.0	1484.9	175.9	0.00	0.00	1600.0		
7	13723.6	90.96	369.63	12264.7	1822.1	175.7	2.00	0.32	1837.2		
8	16197.7	90.96	369.63	12260.0	2996.0	170.1	0.00	0.00	3000.0		TGT #1 (Osprey 10 #601H)
9	16246.0	91.89	359.83	12238.9	5042.3	188.8	2.00	0.46	5046.2		TGT #2 (Osprey 10 #601H)
10	16923.7	91.88	368.43	12183.3	4750.0	188.0	0.00	0.00	4732.7		LTP (Osprey 10 #601H)
11	16943.6	91.88	368.42	12182.8	4740.9	188.9	2.00	-88.88	4743.6		
12	17023.9	91.89	365.42	12180.0	4810.0	168.0	0.00	0.00	4832.6		PRM4 (Osprey 10 #601H)

CASING DETAILS

No casing data is available

WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

Name	TVD	+N-S	+E-W	Northing	Easting
PRM4 (Osprey 10 #601H)	17101.0	4830.0	168.0	416833.00	768858.00
LTP (Osprey 10 #601H)	12193.3	4730.0	169.0	416833.00	768860.00
TGT #1 (Osprey 10 #601H)	12240.0	2996.0	170.1	416808.00	768871.10
TGT #2 (Osprey 10 #601H)	12265.0	1454.9	175.9	416807.90	768880.90
FTP (Osprey 10 #601H)	12275.0	112.0	169.0	416216.00	768950.00





EOG Resources - Midland

Lea County, NM (NAD 27 NME)

Osprey 10

#601H

OH

Plan: Plan #3

Standard Planning Report

16 September, 2014



EOG Resources, Inc.

Planning Report

Database: EDM 5000.1 Single User Db
Company: EOG Resources - Midland
Project: Lea County, NM (NAD 27 NME)
Site: Osprey 10
Well: #601H
Wellbore: OH
Design: Plan #3

Local Co-ordinate Reference: Well #601H
TVD Reference: KB = 30 @ 3363.0usft (Cactus 123)
MD Reference: KB = 30 @ 3363.0usft (Cactus 123)
North Reference: Grid
Survey Calculation Method: Minimum Curvature

Project	Lea County, NM (NAD 27 NME)		
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	Osprey 10				
Site Position:		Northing:	415,103.00 usft	Latitude:	32° 8' 17.729 N
From:	Map	Easting:	768,701.00 usft	Longitude:	103° 27' 54.902 W
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.46 °

Well	#601H				
Well Position	+N/-S	0.0 usft	Northing:	415,103.00 usft	Latitude: 32° 8' 17.729 N
	+E/-W	0.0 usft	Easting:	768,701.00 usft	Longitude: 103° 27' 54.902 W
Position Uncertainty	0.0 usft		Wellhead Elevation:		Ground Level: 3,333.0 usft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF201014	4/30/2014	7.18	60.05	48,289

Design	Plan #3			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.0	0.0	0.0	1.87

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	
4,570.0	0.00	0.00	4,570.0	0.0	0.0	0.00	0.00	0.00	0.00	
4,769.8	2.00	133.98	4,769.7	-2.4	2.5	1.00	1.00	0.00	133.98	
11,690.4	2.00	133.98	11,686.1	-170.0	176.1	0.00	0.00	0.00	0.00	
12,608.5	90.41	359.62	12,272.9	407.1	187.1	10.00	9.63	-14.63	-134.33	
13,696.4	90.41	359.62	12,265.0	1,494.9	179.9	0.00	0.00	0.00	0.00	TGT #1 (Osprey 10 #)
13,723.6	90.96	359.63	12,264.7	1,522.1	179.7	2.00	2.00	0.01	0.32	
15,197.7	90.96	359.63	12,240.0	2,996.0	170.1	0.00	0.00	0.00	0.00	TGT #2 (Osprey 10 #)
15,244.0	91.89	359.63	12,238.9	3,042.3	169.8	2.00	2.00	0.02	0.45	
16,932.7	91.89	359.63	12,183.3	4,730.0	159.0	0.00	0.00	0.00	0.00	LTP (Osprey 10 #601i)
16,943.6	91.89	359.42	12,182.9	4,740.9	158.9	2.00	0.05	-2.00	-88.66	
17,032.8	91.89	359.42	12,180.0	4,830.0	158.0	0.00	0.00	0.00	0.00	PBHL (Osprey 10 #6C)



EOG Resources, Inc.
Planning Report

Database: EDM 5000.1 Single User Db
Company: EOG Resources - Midland
Project: Lea County, NM (NAD 27 NME)
Site: Osprey 10
Well: #601H
Wellbore: OH
Design: Plan #3

Local Co-ordinate Reference: Well #601H
TVD Reference: KB = 30 @ 3363.0usft (Cactus 123)
MD Reference: KB = 30 @ 3363.0usft (Cactus 123)
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
865.0	0.00	0.00	865.0	0.0	0.0	0.0	0.00	0.00	0.00
RUSTLER									
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
1,105.0	0.00	0.00	1,105.0	0.0	0.0	0.0	0.00	0.00	0.00
SALADO									
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	0.00	0.00	3,100.0	0.0	0.0	0.0	0.00	0.00	0.00
3,200.0	0.00	0.00	3,200.0	0.0	0.0	0.0	0.00	0.00	0.00
3,300.0	0.00	0.00	3,300.0	0.0	0.0	0.0	0.00	0.00	0.00
3,400.0	0.00	0.00	3,400.0	0.0	0.0	0.0	0.00	0.00	0.00
3,500.0	0.00	0.00	3,500.0	0.0	0.0	0.0	0.00	0.00	0.00
3,600.0	0.00	0.00	3,600.0	0.0	0.0	0.0	0.00	0.00	0.00
3,700.0	0.00	0.00	3,700.0	0.0	0.0	0.0	0.00	0.00	0.00
3,800.0	0.00	0.00	3,800.0	0.0	0.0	0.0	0.00	0.00	0.00
3,900.0	0.00	0.00	3,900.0	0.0	0.0	0.0	0.00	0.00	0.00
4,000.0	0.00	0.00	4,000.0	0.0	0.0	0.0	0.00	0.00	0.00
4,100.0	0.00	0.00	4,100.0	0.0	0.0	0.0	0.00	0.00	0.00
4,200.0	0.00	0.00	4,200.0	0.0	0.0	0.0	0.00	0.00	0.00
4,300.0	0.00	0.00	4,300.0	0.0	0.0	0.0	0.00	0.00	0.00
4,400.0	0.00	0.00	4,400.0	0.0	0.0	0.0	0.00	0.00	0.00
4,500.0	0.00	0.00	4,500.0	0.0	0.0	0.0	0.00	0.00	0.00
4,570.0	0.00	0.00	4,570.0	0.0	0.0	0.0	0.00	0.00	0.00
4,600.0	0.30	133.98	4,600.0	-0.1	0.1	-0.1	1.00	1.00	0.00
4,700.0	1.30	133.98	4,700.0	-1.0	1.1	-1.0	1.00	1.00	0.00
4,769.8	2.00	133.98	4,769.7	-2.4	2.5	-2.3	1.00	1.00	0.00



EOG Resources, Inc.

Planning Report

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Site: Osprey 10
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Wellbore: OH
Design: Plan #3

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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)
4,800.0	2.00	133.98	4,799.9	-3.2	3.3	-3.0	0.00	0.00	0.00
4,900.0	2.00	133.98	4,899.9	-5.6	5.8	-5.4	0.00	0.00	0.00
5,000.0	2.00	133.98	4,999.8	-8.0	8.3	-7.7	0.00	0.00	0.00
5,050.2	2.00	133.98	5,050.0	-9.2	9.5	-8.9	0.00	0.00	0.00
BASE OF SALT									
5,100.0	2.00	133.98	5,099.8	-10.4	10.8	-10.1	0.00	0.00	0.00
5,200.0	2.00	133.98	5,199.7	-12.8	13.3	-12.4	0.00	0.00	0.00
5,300.0	2.00	133.98	5,299.6	-15.3	15.8	-14.7	0.00	0.00	0.00
5,347.4	2.00	133.98	5,347.0	-16.4	17.0	-15.8	0.00	0.00	0.00
LAMAR LIMESTONE									
5,375.4	2.00	133.98	5,375.0	-17.1	17.7	-16.5	0.00	0.00	0.00
BELL CANYON									
5,400.0	2.00	133.98	5,399.6	-17.7	18.3	-17.1	0.00	0.00	0.00
5,500.0	2.00	133.98	5,499.5	-20.1	20.8	-19.4	0.00	0.00	0.00
5,600.0	2.00	133.98	5,599.5	-22.5	23.3	-21.7	0.00	0.00	0.00
5,700.0	2.00	133.98	5,699.4	-24.9	25.8	-24.1	0.00	0.00	0.00
5,800.0	2.00	133.98	5,799.3	-27.4	28.3	-26.4	0.00	0.00	0.00
5,900.0	2.00	133.98	5,899.3	-29.8	30.9	-28.8	0.00	0.00	0.00
6,000.0	2.00	133.98	5,999.2	-32.2	33.4	-31.1	0.00	0.00	0.00
6,100.0	2.00	133.98	6,099.2	-34.6	35.9	-33.4	0.00	0.00	0.00
6,200.0	2.00	133.98	6,199.1	-37.0	38.4	-35.8	0.00	0.00	0.00
6,300.0	2.00	133.98	6,299.0	-39.5	40.9	-38.1	0.00	0.00	0.00
6,338.0	2.00	133.98	6,337.0	-40.4	41.8	-39.0	0.00	0.00	0.00
CHERRY CANYON									
6,400.0	2.00	133.98	6,399.0	-41.9	43.4	-40.4	0.00	0.00	0.00
6,500.0	2.00	133.98	6,498.9	-44.3	45.9	-42.8	0.00	0.00	0.00
6,600.0	2.00	133.98	6,598.8	-46.7	48.4	-45.1	0.00	0.00	0.00
6,700.0	2.00	133.98	6,698.8	-49.1	50.9	-47.5	0.00	0.00	0.00
6,800.0	2.00	133.98	6,798.7	-51.6	53.4	-49.8	0.00	0.00	0.00
6,900.0	2.00	133.98	6,898.7	-54.0	55.9	-52.1	0.00	0.00	0.00
7,000.0	2.00	133.98	6,998.6	-56.4	58.5	-54.5	0.00	0.00	0.00
7,100.0	2.00	133.98	7,098.5	-58.8	61.0	-56.8	0.00	0.00	0.00
7,200.0	2.00	133.98	7,198.5	-61.3	63.5	-59.1	0.00	0.00	0.00
7,300.0	2.00	133.98	7,298.4	-63.7	66.0	-61.5	0.00	0.00	0.00
7,400.0	2.00	133.98	7,398.4	-66.1	68.5	-63.8	0.00	0.00	0.00
7,500.0	2.00	133.98	7,498.3	-68.5	71.0	-66.2	0.00	0.00	0.00
7,600.0	2.00	133.98	7,598.2	-70.9	73.5	-68.5	0.00	0.00	0.00
7,700.0	2.00	133.98	7,698.2	-73.4	76.0	-70.8	0.00	0.00	0.00
7,760.9	2.00	133.98	7,759.0	-74.8	77.5	-72.3	0.00	0.00	0.00
BRUSHY CANYON									
7,800.0	2.00	133.98	7,798.1	-75.8	78.5	-73.2	0.00	0.00	0.00
7,900.0	2.00	133.98	7,898.1	-78.2	81.0	-75.5	0.00	0.00	0.00
8,000.0	2.00	133.98	7,998.0	-80.6	83.5	-77.8	0.00	0.00	0.00
8,100.0	2.00	133.98	8,097.9	-83.0	86.0	-80.2	0.00	0.00	0.00
8,200.0	2.00	133.98	8,197.9	-85.5	88.6	-82.5	0.00	0.00	0.00
8,300.0	2.00	133.98	8,297.8	-87.9	91.1	-84.9	0.00	0.00	0.00
8,400.0	2.00	133.98	8,397.8	-90.3	93.6	-87.2	0.00	0.00	0.00
8,500.0	2.00	133.98	8,497.7	-92.7	96.1	-89.5	0.00	0.00	0.00
8,600.0	2.00	133.98	8,597.6	-95.1	98.6	-91.9	0.00	0.00	0.00
8,700.0	2.00	133.98	8,697.6	-97.6	101.1	-94.2	0.00	0.00	0.00
8,800.0	2.00	133.98	8,797.5	-100.0	103.6	-96.5	0.00	0.00	0.00
8,900.0	2.00	133.98	8,897.4	-102.4	106.1	-98.9	0.00	0.00	0.00
9,000.0	2.00	133.98	8,997.4	-104.8	108.6	-101.2	0.00	0.00	0.00



EOG Resources, Inc.

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Well: #601H
Wellbore: OH
Design: Plan #3

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MD Reference: KB = 30 @ 3363.0usft (Cactus 123)
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)
9,100.0	2.00	133.98	9,097.3	-107.3	111.1	-103.6	0.00	0.00	0.00
9,200.0	2.00	133.98	9,197.3	-109.7	113.6	-105.9	0.00	0.00	0.00
9,300.0	2.00	133.98	9,297.2	-112.1	116.2	-108.2	0.00	0.00	0.00
9,337.8	2.00	133.98	9,335.0	-113.0	117.1	-109.1	0.00	0.00	0.00
BONE SPRING LIME									
9,347.8	2.00	133.98	9,345.0	-113.2	117.3	-109.4	0.00	0.00	0.00
LEONARD A SHALE									
9,400.0	2.00	133.98	9,397.1	-114.5	118.7	-110.6	0.00	0.00	0.00
9,500.0	2.00	133.98	9,497.1	-116.9	121.2	-112.9	0.00	0.00	0.00
9,600.0	2.00	133.98	9,597.0	-119.4	123.7	-115.2	0.00	0.00	0.00
9,700.0	2.00	133.98	9,697.0	-121.8	126.2	-117.6	0.00	0.00	0.00
9,800.0	2.00	133.98	9,796.9	-124.2	128.7	-119.9	0.00	0.00	0.00
9,900.0	2.00	133.98	9,896.8	-126.6	131.2	-122.3	0.00	0.00	0.00
10,000.0	2.00	133.98	9,996.8	-129.0	133.7	-124.6	0.00	0.00	0.00
10,100.0	2.00	133.98	10,096.7	-131.5	136.2	-126.9	0.00	0.00	0.00
10,200.0	2.00	133.98	10,196.7	-133.9	138.7	-129.3	0.00	0.00	0.00
10,221.4	2.00	133.98	10,218.0	-134.4	139.3	-129.8	0.00	0.00	0.00
1ST BONE SPRING SAND									
10,300.0	2.00	133.98	10,296.6	-136.3	141.2	-131.6	0.00	0.00	0.00
10,400.0	2.00	133.98	10,396.5	-138.7	143.7	-133.9	0.00	0.00	0.00
10,500.0	2.00	133.98	10,496.5	-141.1	146.3	-136.3	0.00	0.00	0.00
10,600.0	2.00	133.98	10,596.4	-143.6	148.8	-138.6	0.00	0.00	0.00
10,700.0	2.00	133.98	10,696.4	-146.0	151.3	-141.0	0.00	0.00	0.00
10,800.0	2.00	133.98	10,796.3	-148.4	153.8	-143.3	0.00	0.00	0.00
10,900.0	2.00	133.98	10,896.2	-150.8	156.3	-145.6	0.00	0.00	0.00
11,000.0	2.00	133.98	10,996.2	-153.2	158.8	-148.0	0.00	0.00	0.00
11,095.9	2.00	133.98	11,092.0	-155.6	161.2	-150.2	0.00	0.00	0.00
2ND BONE SPRING SAND									
11,100.0	2.00	133.98	11,096.1	-155.7	161.3	-150.3	0.00	0.00	0.00
11,200.0	2.00	133.98	11,196.1	-158.1	163.8	-152.6	0.00	0.00	0.00
11,300.0	2.00	133.98	11,296.0	-160.5	166.3	-155.0	0.00	0.00	0.00
11,385.1	2.00	133.98	11,381.0	-162.6	168.5	-157.0	0.00	0.00	0.00
3RD BONE SPRING									
11,400.0	2.00	133.98	11,395.9	-162.9	168.8	-157.3	0.00	0.00	0.00
11,500.0	2.00	133.98	11,495.9	-165.4	171.3	-159.7	0.00	0.00	0.00
11,600.0	2.00	133.98	11,595.8	-167.8	173.8	-162.0	0.00	0.00	0.00
11,690.4	2.00	133.98	11,686.1	-170.0	176.1	-164.1	0.00	0.00	0.00
11,700.0	1.49	106.58	11,695.7	-170.1	176.4	-164.3	10.00	-5.25	-285.12
11,750.0	4.78	16.98	11,745.7	-168.3	177.6	-162.4	10.00	6.58	-179.21
11,800.0	9.67	8.05	11,795.3	-162.2	178.8	-156.2	10.00	9.77	-17.86
11,850.0	14.63	5.12	11,844.1	-151.7	179.9	-145.7	10.00	9.93	-5.87
11,900.0	19.61	3.65	11,891.9	-137.0	181.0	-131.0	10.00	9.96	-2.94
11,950.0	24.60	2.76	11,938.2	-118.2	182.1	-112.2	10.00	9.98	-1.78
12,000.0	29.60	2.15	11,982.7	-95.5	183.0	-89.5	10.00	9.98	-1.21
12,050.0	34.59	1.71	12,025.1	-68.9	183.9	-62.9	10.00	9.99	-0.89
12,100.0	39.59	1.36	12,064.9	-38.8	184.7	-32.8	10.00	9.99	-0.69
12,150.0	44.58	1.08	12,102.0	-5.3	185.4	0.7	10.00	9.99	-0.56
12,200.0	49.58	0.85	12,136.1	31.3	186.1	37.3	10.00	9.99	-0.47
12,250.0	54.58	0.65	12,168.8	70.7	186.6	76.8	10.00	9.99	-0.40
12,300.0	59.57	0.47	12,194.0	112.7	187.0	118.7	10.00	10.00	-0.35
12,337.4	63.31	0.35	12,211.8	145.5	187.2	151.5	10.00	10.00	-0.32
FTP (Osprey 10 #601H)									
12,350.0	64.57	0.31	12,217.4	156.8	187.3	162.9	10.00	10.00	-0.31



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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)
12,400.0	69.57	0.17	12,236.8	202.9	187.5	208.9	10.00	10.00	-0.29
12,450.0	74.57	0.03	12,252.2	250.4	187.5	256.4	10.00	10.00	-0.28
12,500.0	79.57	359.90	12,263.4	299.1	187.5	305.1	10.00	10.00	-0.26
12,550.0	84.57	359.77	12,270.3	348.6	187.4	354.6	10.00	10.00	-0.25
12,600.0	89.56	359.64	12,272.9	398.6	187.1	404.5	10.00	10.00	-0.25
12,608.5	90.41	359.62	12,272.9	407.1	187.1	413.0	10.00	10.00	-0.25
12,700.0	90.41	359.62	12,272.2	498.5	186.5	504.4	0.00	0.00	0.00
12,800.0	90.41	359.62	12,271.5	598.5	185.8	604.3	0.00	0.00	0.00
12,900.0	90.41	359.62	12,270.8	698.5	185.1	704.2	0.00	0.00	0.00
13,000.0	90.41	359.62	12,270.0	798.5	184.5	804.1	0.00	0.00	0.00
13,100.0	90.41	359.62	12,269.3	898.5	183.8	904.1	0.00	0.00	0.00
13,200.0	90.41	359.62	12,268.6	998.5	183.2	1,004.0	0.00	0.00	0.00
13,300.0	90.41	359.62	12,267.9	1,098.5	182.5	1,103.9	0.00	0.00	0.00
13,400.0	90.41	359.62	12,267.1	1,198.5	181.9	1,203.8	0.00	0.00	0.00
13,500.0	90.41	359.62	12,266.4	1,298.5	181.2	1,303.7	0.00	0.00	0.00
13,600.0	90.41	359.62	12,265.7	1,398.5	180.5	1,403.7	0.00	0.00	0.00
13,696.4	90.41	359.62	12,265.0	1,494.9	179.9	1,500.0	0.00	0.00	0.00
TGT #1 (Osprey 10 #601H)									
13,700.0	90.49	359.62	12,265.0	1,498.5	179.9	1,503.6	2.00	2.00	0.01
13,723.6	90.96	359.63	12,264.7	1,522.1	179.7	1,527.2	2.00	2.00	0.01
13,800.0	90.96	359.63	12,263.4	1,598.5	179.2	1,603.5	0.00	0.00	0.00
13,900.0	90.96	359.63	12,261.7	1,698.5	178.6	1,703.4	0.00	0.00	0.00
14,000.0	90.96	359.63	12,260.0	1,798.5	177.9	1,803.3	0.00	0.00	0.00
14,100.0	90.96	359.63	12,258.4	1,898.4	177.3	1,903.2	0.00	0.00	0.00
14,200.0	90.96	359.63	12,256.7	1,998.4	176.6	2,003.1	0.00	0.00	0.00
14,300.0	90.96	359.63	12,255.0	2,098.4	176.0	2,103.0	0.00	0.00	0.00
14,400.0	90.96	359.63	12,253.4	2,198.4	175.3	2,202.9	0.00	0.00	0.00
14,500.0	90.96	359.63	12,251.7	2,298.4	174.7	2,302.9	0.00	0.00	0.00
14,600.0	90.96	359.63	12,250.0	2,398.4	174.0	2,402.8	0.00	0.00	0.00
14,700.0	90.96	359.63	12,248.3	2,498.3	173.3	2,502.7	0.00	0.00	0.00
14,800.0	90.96	359.63	12,246.7	2,598.3	172.7	2,602.6	0.00	0.00	0.00
14,900.0	90.96	359.63	12,245.0	2,698.3	172.0	2,702.5	0.00	0.00	0.00
15,000.0	90.96	359.63	12,243.3	2,798.3	171.4	2,802.4	0.00	0.00	0.00
15,100.0	90.96	359.63	12,241.6	2,898.3	170.7	2,902.3	0.00	0.00	0.00
15,197.7	90.96	359.63	12,240.0	2,996.0	170.1	3,000.0	0.00	0.00	0.00
TGT #2 (Osprey 10 #601H)									
15,200.0	91.00	359.63	12,240.0	2,998.3	170.1	3,002.2	2.00	2.00	0.02
15,244.0	91.89	359.63	12,238.9	3,042.3	169.8	3,046.2	2.00	2.00	0.02
15,300.0	91.89	359.63	12,237.0	3,098.2	169.4	3,102.1	0.00	0.00	0.00
15,400.0	91.89	359.63	12,233.7	3,198.2	168.8	3,202.0	0.00	0.00	0.00
15,500.0	91.89	359.63	12,230.4	3,298.1	168.2	3,301.8	0.00	0.00	0.00
15,600.0	91.89	359.63	12,227.1	3,398.0	167.5	3,401.7	0.00	0.00	0.00
15,700.0	91.89	359.63	12,223.9	3,498.0	166.9	3,501.6	0.00	0.00	0.00
15,800.0	91.89	359.63	12,220.6	3,597.9	166.2	3,601.4	0.00	0.00	0.00
15,900.0	91.89	359.63	12,217.3	3,697.9	165.6	3,701.3	0.00	0.00	0.00
16,000.0	91.89	359.63	12,214.0	3,797.8	165.0	3,801.2	0.00	0.00	0.00
16,100.0	91.89	359.63	12,210.7	3,897.8	164.3	3,901.1	0.00	0.00	0.00
16,200.0	91.89	359.63	12,207.4	3,997.7	163.7	4,000.9	0.00	0.00	0.00
16,300.0	91.89	359.63	12,204.1	4,097.7	163.0	4,100.8	0.00	0.00	0.00
16,400.0	91.89	359.63	12,200.8	4,197.6	162.4	4,200.7	0.00	0.00	0.00
16,500.0	91.89	359.63	12,197.5	4,297.5	161.8	4,300.5	0.00	0.00	0.00
16,600.0	91.89	359.63	12,194.2	4,397.5	161.1	4,400.4	0.00	0.00	0.00
16,700.0	91.89	359.63	12,191.0	4,497.4	160.5	4,500.3	0.00	0.00	0.00
16,800.0	91.89	359.63	12,187.7	4,597.4	159.8	4,600.1	0.00	0.00	0.00



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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)
16,900.0	91.89	359.63	12,184.4	4,697.3	159.2	4,700.0	0.00	0.00	0.00
16,932.7	91.89	359.63	12,183.3	4,730.0	159.0	4,732.7	0.00	0.00	0.00
LTP (Osprey 10 #601H)									
16,943.6	91.89	359.42	12,182.9	4,740.9	158.9	4,743.6	2.00	0.05	-2.00
17,000.0	91.89	359.42	12,181.1	4,797.3	158.3	4,799.9	0.00	0.00	0.00
17,032.8	91.89	359.42	12,180.0	4,830.0	158.0	4,832.6	0.00	0.00	0.00
PBHL (Osprey 10 #601H)									

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
PBHL (Osprey 10 #601H) - plan hits target center - Rectangle (sides W50.0 H0.0 D4,718.6)	90.00	359.63	12,180.0	4,830.0	158.0	419,933.00	768,859.00	32° 9' 5.511 N	103° 27' 52.611 W
LTP (Osprey 10 #601H) - plan hits target center - Point	0.00	0.00	12,183.3	4,730.0	159.0	419,833.00	768,860.00	32° 9' 4.521 N	103° 27' 52.609 W
TGT #2 (Osprey 10 #601H) - plan hits target center - Point	0.00	0.00	12,240.0	2,996.0	170.1	418,099.00	768,871.10	32° 8' 47.362 N	103° 27' 52.642 W
TGT #1 (Osprey 10 #601H) - plan hits target center - Point	0.00	0.00	12,265.0	1,494.9	179.9	416,597.90	768,880.90	32° 8' 32.507 N	103° 27' 52.669 W
FTP (Osprey 10 #601H) - plan misses target center by 71.5usft at 12337.4usft MD (12211.8 TVD, 145.5 N, 187.2 E) - Point	0.00	0.00	12,275.0	112.0	189.0	415,215.00	768,890.00	32° 8' 18.822 N	103° 27' 52.693 W

Formations

Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
865.0	865.0	RUSTLER			
1,105.0	1,105.0	SALADO			
5,050.2	5,050.0	BASE OF SALT			
5,347.4	5,347.0	LAMAR LIMESTONE			
5,375.4	5,375.0	BELL CANYON			
6,338.0	6,337.0	CHERRY CANYON			
7,760.9	7,759.0	BRUSHY CANYON			
9,337.8	9,335.0	BONE SPRING LIME			
9,347.8	9,345.0	LEONARD A SHALE			
10,221.4	10,218.0	1ST BONE SPRING SAND			
11,095.9	11,092.0	2ND BONE SPRING SAND			
11,385.1	11,381.0	3RD BONE SPRING			