

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

Form C-103
 Revised July 18, 2013

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

WELL API NO. 30-025-46453
5. Indicate Type of Lease STATE <input checked="" type="checkbox"/> FEE <input type="checkbox"/>
6. State Oil & Gas Lease No.
7. Lease Name or Unit Agreement Name Osprey 10
8. Well Number 707H
9. OGRID Number 7377
10. Pool name or Wildcat WC-025 G-09 S253402N; Wolfcamp
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 3333'

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.)

1. Type of Well: Oil Well Gas Well Other

2. Name of Operator
EOG Resources, Inc.

3. Address of Operator
P.O. Box 2267, Midland, Texas 79702

4. Well Location
 Unit Letter N : 200 feet from the South line and 1733 feet from the West line
 Section 10 Township 25S Range 34E NMNM Lea County

OCD - HOBBS
11/26/2019
RECEIVED

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 respectfully requests an amendment to our approved APD for this well to reflect the following changes:
 BHL change to T-25-S R-34-E Sec. 3 2535' FSL 2585' FWL Lea Co, NM

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  TITLE Sr Regulatory Specialist DATE 11/26/2019

Type or print name Star Harrell E-mail address: star_harrell@eogresources.com PHONE: 432-848-9161

For State Use Only

APPROVED BY:  TITLE Petroleum Engineer DATE 11/26/2019

Conditions of Approval (if any):

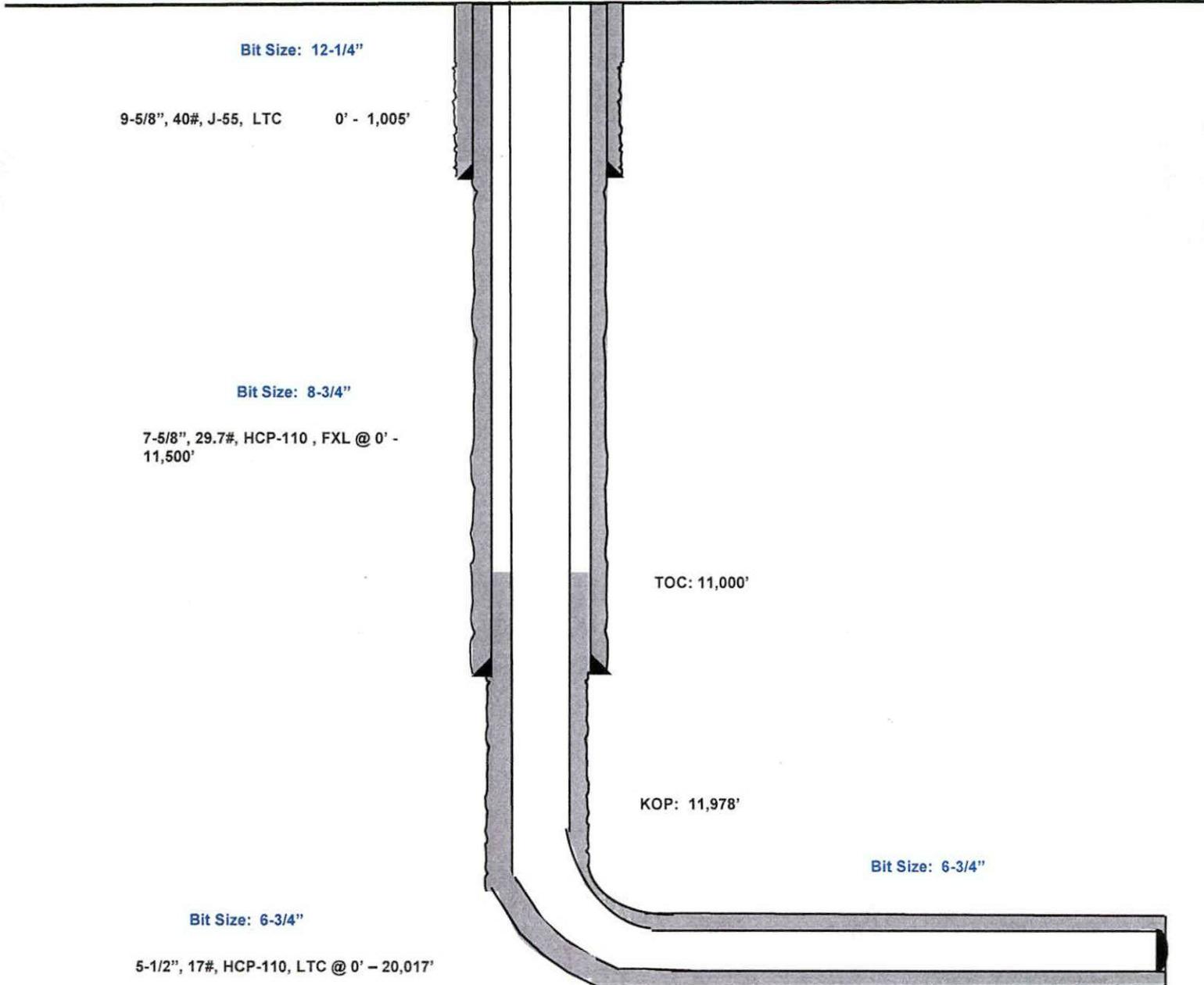
200' FSL
1733' FWL
Section 10
T-25-S, R-34-E

Osprey 10 #707H
Lea County, New Mexico

KB: 3,358'
GL: 3,333'

Revised Wellbore 11/26/2019
Design A

API: 30-025-46453



Lateral: 20,017' MD, 12,400' TVD
BH Location: 2535' FSL & 2585' FWL
Section 3
T-25-S, R-34-E

EOG RESOURCES, INC.
OSPREY 10 #707H

Revised Permit Information 11/26/19:

Well Name: Osprey 10 #707H

Location:

SHL: 200' FSL & 1733' FWL, Section 10, T-25-S, R-34-E, Lea Co., N.M.

BHL: 2535' FSL & 2585' FWL, Section 3, 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 - 1,005'	9.625"	40#	J-55	LTC	1.125	1.25	1.60
8.75"	0' - 11,500'	7.625"	29.7#	HCP-110	FXL	1.125	1.25	1.60
6.75"	0'-20,017'	5.5"	17#	HCP-110	LTC	1.125	1.25	1.60

Cement Program:

Depth	No. Sacks	Wt. ppg	Yld Ft ³ /sk	Slurry Description
1,005'	400	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)
	300	14.8	1.34	Class C + 0.6% FL-62 + 0.25 lb/sk Cello-Flake + 0.2% Sodium Metasilicate
11,500'	600	14.2	1.11	1 st Stage (Tail): Class C + 5% Salt + (TOC @ 7,000')
	1,000	12.7	2.30	2 nd Stage (Bradenhead squeeze): Class C + 3% Salt + 1% PreMag-M + 6% Bentonite Gel (TOC @ surface)
20,017'	800	14.2	1.31	Class H + 0.1% C-20 + 0.05% CSA-1000 + 0.20% C-49 + 0.40% C-17 (TOC @ 11,000')

Mud Program:

Depth	Type	Weight (ppg)	Viscosity	Water Loss
0 - 1,005'	Fresh - Gel	8.6-8.8	28-34	N/c
1,005' - 11,500'	Brine	8.8-10.0	28-34	N/c
11,500' - 11,978'	Oil Base	10.0-11.5	58-68	3 - 6
11,978' - 20,017' Lateral	Oil Base	10.0-11.5	58-68	3 - 6

EOG Resources respectfully requests to maintain the option to implement the previously permitted 4 string design, to be referred to as "Design B" in future reporting.



EOG Resources - Midland

Lea County, NM (NAD 83 NME)

Osprey 10

#707H

74870

OH

Plan: Plan #0.2

Standard Planning Report

26 November, 2019



Planning Report

Database: EDM
 Company: EOG Resources - Midland
 Project: Lea County, NM (NAD 83 NME)
 Site: Osprey 10
 Well: #707H
 Wellbore: OH
 Design: Plan #0.2

Local Co-ordinate Reference: Well #707H
 TVD Reference: KB = 25 @ 3358.0usft
 MD Reference: KB = 25 @ 3358.0usft
 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	Osprey 10				
Site Position:		Northing:	415,148.00 usft	Latitude:	32° 8' 18.063 N
From:	Map	Easting:	809,711.00 usft	Longitude:	103° 27' 58.640 W
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.46 °

Well	#707H					
Well Position	+N/-S	4.0 usft	Northing:	415,152.00 usft	Latitude:	32° 8' 17.965 N
	+E/-W	1,720.0 usft	Easting:	811,431.00 usft	Longitude:	103° 27' 38.637 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)
	IGRF2015	11/25/2019	6.63	59.97	47,648.57655460

Design	Plan #0.2			
Audit Notes:				
Version:	Phase:	PROTOTYPE	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.0	0.0	0.0	5.95

Plan Survey Tool Program	Date	11/26/2019		
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1	0.0	20,016.7	Plan #0.2 (OH)	MWD OWSG MWD - Standard

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	
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,374.1	7.48	99.58	1,373.0	-4.1	24.0	2.00	2.00	0.00	99.58	
7,643.4	7.48	99.58	7,589.0	-139.9	829.0	0.00	0.00	0.00	0.00	
8,017.5	0.00	0.00	7,962.0	-144.0	853.0	2.00	-2.00	0.00	180.00	
11,978.0	0.00	0.00	11,922.5	-144.0	853.0	0.00	0.00	0.00	0.00	0.00 KOP (Osprey 10 #707)
12,728.0	90.00	359.57	12,400.0	333.4	849.4	12.00	12.00	-0.06	359.57	
20,016.7	90.00	359.57	12,400.0	7,622.0	795.0	0.00	0.00	0.00	0.00	0.00 PBHL2 (Osprey 10 #7)



Planning Report

Database: EDM
 Company: EOG Resources - Midland
 Project: Lea County, NM (NAD 83 NME)
 Site: Osprey 10
 Well: #707H
 Wellbore: OH
 Design: Plan #0.2

Local Co-ordinate Reference: Well #707H
 TVD Reference: KB = 25 @ 3358.0usft
 MD Reference: KB = 25 @ 3358.0usft
 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	2.00	99.58	1,100.0	-0.3	1.7	-0.1	2.00	2.00	0.00	
1,200.0	4.00	99.58	1,199.8	-1.2	6.9	-0.4	2.00	2.00	0.00	
1,300.0	6.00	99.58	1,299.5	-2.6	15.5	-1.0	2.00	2.00	0.00	
1,374.1	7.48	99.58	1,373.0	-4.1	24.0	-1.5	2.00	2.00	0.00	
1,400.0	7.48	99.58	1,398.7	-4.6	27.4	-1.8	0.00	0.00	0.00	
1,500.0	7.48	99.58	1,497.9	-6.8	40.2	-2.6	0.00	0.00	0.00	
1,600.0	7.48	99.58	1,597.0	-9.0	53.1	-3.4	0.00	0.00	0.00	
1,700.0	7.48	99.58	1,696.2	-11.1	65.9	-4.2	0.00	0.00	0.00	
1,800.0	7.48	99.58	1,795.3	-13.3	78.7	-5.1	0.00	0.00	0.00	
1,900.0	7.48	99.58	1,894.5	-15.5	91.6	-5.9	0.00	0.00	0.00	
2,000.0	7.48	99.58	1,993.6	-17.6	104.4	-6.7	0.00	0.00	0.00	
2,100.0	7.48	99.58	2,092.8	-19.8	117.2	-7.5	0.00	0.00	0.00	
2,200.0	7.48	99.58	2,191.9	-22.0	130.1	-8.3	0.00	0.00	0.00	
2,300.0	7.48	99.58	2,291.1	-24.1	142.9	-9.2	0.00	0.00	0.00	
2,400.0	7.48	99.58	2,390.2	-26.3	155.8	-10.0	0.00	0.00	0.00	
2,500.0	7.48	99.58	2,489.4	-28.5	168.6	-10.8	0.00	0.00	0.00	
2,600.0	7.48	99.58	2,588.5	-30.6	181.4	-11.6	0.00	0.00	0.00	
2,700.0	7.48	99.58	2,687.7	-32.8	194.3	-12.5	0.00	0.00	0.00	
2,800.0	7.48	99.58	2,786.8	-35.0	207.1	-13.3	0.00	0.00	0.00	
2,900.0	7.48	99.58	2,885.9	-37.1	220.0	-14.1	0.00	0.00	0.00	
3,000.0	7.48	99.58	2,985.1	-39.3	232.8	-14.9	0.00	0.00	0.00	
3,100.0	7.48	99.58	3,084.2	-41.5	245.6	-15.8	0.00	0.00	0.00	
3,200.0	7.48	99.58	3,183.4	-43.6	258.5	-16.6	0.00	0.00	0.00	
3,300.0	7.48	99.58	3,282.5	-45.8	271.3	-17.4	0.00	0.00	0.00	
3,400.0	7.48	99.58	3,381.7	-48.0	284.2	-18.2	0.00	0.00	0.00	
3,500.0	7.48	99.58	3,480.8	-50.1	297.0	-19.1	0.00	0.00	0.00	
3,600.0	7.48	99.58	3,580.0	-52.3	309.8	-19.9	0.00	0.00	0.00	
3,700.0	7.48	99.58	3,679.1	-54.5	322.7	-20.7	0.00	0.00	0.00	
3,800.0	7.48	99.58	3,778.3	-56.6	335.5	-21.5	0.00	0.00	0.00	
3,900.0	7.48	99.58	3,877.4	-58.8	348.3	-22.4	0.00	0.00	0.00	
4,000.0	7.48	99.58	3,976.6	-61.0	361.2	-23.2	0.00	0.00	0.00	
4,100.0	7.48	99.58	4,075.7	-63.1	374.0	-24.0	0.00	0.00	0.00	
4,200.0	7.48	99.58	4,174.9	-65.3	386.9	-24.8	0.00	0.00	0.00	
4,300.0	7.48	99.58	4,274.0	-67.5	399.7	-25.6	0.00	0.00	0.00	
4,400.0	7.48	99.58	4,373.2	-69.6	412.5	-26.5	0.00	0.00	0.00	
4,500.0	7.48	99.58	4,472.3	-71.8	425.4	-27.3	0.00	0.00	0.00	
4,600.0	7.48	99.58	4,571.5	-74.0	438.2	-28.1	0.00	0.00	0.00	
4,700.0	7.48	99.58	4,670.6	-76.1	451.1	-28.9	0.00	0.00	0.00	
4,800.0	7.48	99.58	4,769.8	-78.3	463.9	-29.8	0.00	0.00	0.00	
4,900.0	7.48	99.58	4,868.9	-80.5	476.7	-30.6	0.00	0.00	0.00	
5,000.0	7.48	99.58	4,968.1	-82.6	489.6	-31.4	0.00	0.00	0.00	
5,100.0	7.48	99.58	5,067.2	-84.8	502.4	-32.2	0.00	0.00	0.00	
5,200.0	7.48	99.58	5,166.4	-87.0	515.2	-33.1	0.00	0.00	0.00	



Planning Report

Database: EDM
 Company: EOG Resources - Midland
 Project: Lea County, NM (NAD 83 NME)
 Site: Osprey 10
 Well: #707H
 Wellbore: OH
 Design: Plan #0.2

Local Co-ordinate Reference: Well #707H
 TVD Reference: KB = 25 @ 3358.0usft
 MD Reference: KB = 25 @ 3358.0usft
 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)
5,300.0	7.48	99.58	5,265.5	-89.1	528.1	-33.9	0.00	0.00	0.00
5,400.0	7.48	99.58	5,364.7	-91.3	540.9	-34.7	0.00	0.00	0.00
5,500.0	7.48	99.58	5,463.8	-93.5	553.8	-35.5	0.00	0.00	0.00
5,600.0	7.48	99.58	5,563.0	-95.7	566.6	-36.4	0.00	0.00	0.00
5,700.0	7.48	99.58	5,662.1	-97.8	579.4	-37.2	0.00	0.00	0.00
5,800.0	7.48	99.58	5,761.3	-100.0	592.3	-38.0	0.00	0.00	0.00
5,900.0	7.48	99.58	5,860.4	-102.2	605.1	-38.8	0.00	0.00	0.00
6,000.0	7.48	99.58	5,959.6	-104.3	618.0	-39.7	0.00	0.00	0.00
6,100.0	7.48	99.58	6,058.7	-106.5	630.8	-40.5	0.00	0.00	0.00
6,200.0	7.48	99.58	6,157.9	-108.7	643.6	-41.3	0.00	0.00	0.00
6,300.0	7.48	99.58	6,257.0	-110.8	656.5	-42.1	0.00	0.00	0.00
6,400.0	7.48	99.58	6,356.2	-113.0	669.3	-42.9	0.00	0.00	0.00
6,500.0	7.48	99.58	6,455.3	-115.2	682.2	-43.8	0.00	0.00	0.00
6,600.0	7.48	99.58	6,554.5	-117.3	695.0	-44.6	0.00	0.00	0.00
6,700.0	7.48	99.58	6,653.6	-119.5	707.8	-45.4	0.00	0.00	0.00
6,800.0	7.48	99.58	6,752.7	-121.7	720.7	-46.2	0.00	0.00	0.00
6,900.0	7.48	99.58	6,851.9	-123.8	733.5	-47.1	0.00	0.00	0.00
7,000.0	7.48	99.58	6,951.0	-126.0	746.3	-47.9	0.00	0.00	0.00
7,100.0	7.48	99.58	7,050.2	-128.2	759.2	-48.7	0.00	0.00	0.00
7,200.0	7.48	99.58	7,149.3	-130.3	772.0	-49.5	0.00	0.00	0.00
7,300.0	7.48	99.58	7,248.5	-132.5	784.9	-50.4	0.00	0.00	0.00
7,400.0	7.48	99.58	7,347.6	-134.7	797.7	-51.2	0.00	0.00	0.00
7,500.0	7.48	99.58	7,446.8	-136.8	810.5	-52.0	0.00	0.00	0.00
7,600.0	7.48	99.58	7,545.9	-139.0	823.4	-52.8	0.00	0.00	0.00
7,643.4	7.48	99.58	7,589.0	-139.9	829.0	-53.2	0.00	0.00	0.00
7,700.0	6.35	99.58	7,645.2	-141.1	835.7	-53.6	2.00	-2.00	0.00
7,800.0	4.35	99.58	7,744.7	-142.6	844.9	-54.2	2.00	-2.00	0.00
7,900.0	2.35	99.58	7,844.5	-143.6	850.6	-54.6	2.00	-2.00	0.00
8,000.0	0.35	99.58	7,944.5	-144.0	852.9	-54.7	2.00	-2.00	0.00
8,017.5	0.00	0.00	7,962.0	-144.0	853.0	-54.7	2.00	-2.00	0.00
8,100.0	0.00	0.00	8,044.5	-144.0	853.0	-54.7	0.00	0.00	0.00
8,200.0	0.00	0.00	8,144.5	-144.0	853.0	-54.7	0.00	0.00	0.00
8,300.0	0.00	0.00	8,244.5	-144.0	853.0	-54.7	0.00	0.00	0.00
8,400.0	0.00	0.00	8,344.5	-144.0	853.0	-54.7	0.00	0.00	0.00
8,500.0	0.00	0.00	8,444.5	-144.0	853.0	-54.7	0.00	0.00	0.00
8,600.0	0.00	0.00	8,544.5	-144.0	853.0	-54.7	0.00	0.00	0.00
8,700.0	0.00	0.00	8,644.5	-144.0	853.0	-54.7	0.00	0.00	0.00
8,800.0	0.00	0.00	8,744.5	-144.0	853.0	-54.7	0.00	0.00	0.00
8,900.0	0.00	0.00	8,844.5	-144.0	853.0	-54.7	0.00	0.00	0.00
9,000.0	0.00	0.00	8,944.5	-144.0	853.0	-54.7	0.00	0.00	0.00
9,100.0	0.00	0.00	9,044.5	-144.0	853.0	-54.7	0.00	0.00	0.00
9,200.0	0.00	0.00	9,144.5	-144.0	853.0	-54.7	0.00	0.00	0.00
9,300.0	0.00	0.00	9,244.5	-144.0	853.0	-54.7	0.00	0.00	0.00
9,400.0	0.00	0.00	9,344.5	-144.0	853.0	-54.7	0.00	0.00	0.00
9,500.0	0.00	0.00	9,444.5	-144.0	853.0	-54.7	0.00	0.00	0.00
9,600.0	0.00	0.00	9,544.5	-144.0	853.0	-54.7	0.00	0.00	0.00
9,700.0	0.00	0.00	9,644.5	-144.0	853.0	-54.7	0.00	0.00	0.00
9,800.0	0.00	0.00	9,744.5	-144.0	853.0	-54.7	0.00	0.00	0.00
9,900.0	0.00	0.00	9,844.5	-144.0	853.0	-54.7	0.00	0.00	0.00
10,000.0	0.00	0.00	9,944.5	-144.0	853.0	-54.7	0.00	0.00	0.00
10,100.0	0.00	0.00	10,044.5	-144.0	853.0	-54.7	0.00	0.00	0.00
10,200.0	0.00	0.00	10,144.5	-144.0	853.0	-54.7	0.00	0.00	0.00
10,300.0	0.00	0.00	10,244.5	-144.0	853.0	-54.7	0.00	0.00	0.00
10,400.0	0.00	0.00	10,344.5	-144.0	853.0	-54.7	0.00	0.00	0.00



Planning Report

Database: EDM
 Company: EOG Resources - Midland
 Project: Lea County, NM (NAD 83 NME)
 Site: Osprey 10
 Well: #707H
 Wellbore: OH
 Design: Plan #0.2

Local Co-ordinate Reference: Well #707H
 TVD Reference: KB = 25 @ 3358.0usft
 MD Reference: KB = 25 @ 3358.0usft
 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)
10,500.0	0.00	0.00	10,444.5	-144.0	853.0	-54.7	0.00	0.00	0.00
10,600.0	0.00	0.00	10,544.5	-144.0	853.0	-54.7	0.00	0.00	0.00
10,700.0	0.00	0.00	10,644.5	-144.0	853.0	-54.7	0.00	0.00	0.00
10,800.0	0.00	0.00	10,744.5	-144.0	853.0	-54.7	0.00	0.00	0.00
10,900.0	0.00	0.00	10,844.5	-144.0	853.0	-54.7	0.00	0.00	0.00
11,000.0	0.00	0.00	10,944.5	-144.0	853.0	-54.7	0.00	0.00	0.00
11,100.0	0.00	0.00	11,044.5	-144.0	853.0	-54.7	0.00	0.00	0.00
11,200.0	0.00	0.00	11,144.5	-144.0	853.0	-54.7	0.00	0.00	0.00
11,300.0	0.00	0.00	11,244.5	-144.0	853.0	-54.7	0.00	0.00	0.00
11,400.0	0.00	0.00	11,344.5	-144.0	853.0	-54.7	0.00	0.00	0.00
11,500.0	0.00	0.00	11,444.5	-144.0	853.0	-54.7	0.00	0.00	0.00
11,600.0	0.00	0.00	11,544.5	-144.0	853.0	-54.7	0.00	0.00	0.00
11,700.0	0.00	0.00	11,644.5	-144.0	853.0	-54.7	0.00	0.00	0.00
11,800.0	0.00	0.00	11,744.5	-144.0	853.0	-54.7	0.00	0.00	0.00
11,900.0	0.00	0.00	11,844.5	-144.0	853.0	-54.7	0.00	0.00	0.00
11,978.0	0.00	0.00	11,922.5	-144.0	853.0	-54.7	0.00	0.00	0.00
12,000.0	2.64	359.57	11,944.5	-143.5	853.0	-54.2	12.00	12.00	0.00
12,025.0	5.64	359.57	11,969.4	-141.7	853.0	-52.4	12.00	12.00	0.00
12,050.0	8.64	359.57	11,994.2	-138.6	853.0	-49.3	12.00	12.00	0.00
12,075.0	11.64	359.57	12,018.8	-134.2	852.9	-45.0	12.00	12.00	0.00
12,100.0	14.64	359.57	12,043.2	-128.5	852.9	-39.3	12.00	12.00	0.00
12,125.0	17.64	359.57	12,067.2	-121.5	852.8	-32.4	12.00	12.00	0.00
12,150.0	20.64	359.57	12,090.8	-113.4	852.8	-24.3	12.00	12.00	0.00
12,175.0	23.64	359.57	12,114.0	-103.9	852.7	-14.9	12.00	12.00	0.00
12,200.0	26.64	359.57	12,136.6	-93.3	852.6	-4.4	12.00	12.00	0.00
12,225.0	29.64	359.57	12,158.6	-81.5	852.5	7.4	12.00	12.00	0.00
12,250.0	32.64	359.57	12,180.0	-68.6	852.4	20.2	12.00	12.00	0.00
12,275.0	35.64	359.57	12,200.7	-54.6	852.3	34.1	12.00	12.00	0.00
12,300.0	38.64	359.57	12,220.6	-39.5	852.2	49.1	12.00	12.00	0.00
12,325.0	41.64	359.57	12,239.8	-23.4	852.1	65.2	12.00	12.00	0.00
12,350.0	44.64	359.57	12,258.0	-6.3	852.0	82.1	12.00	12.00	0.00
12,375.0	47.64	359.57	12,275.3	11.8	851.8	100.1	12.00	12.00	0.00
12,400.0	50.64	359.57	12,291.7	30.7	851.7	118.9	12.00	12.00	0.00
12,425.0	53.64	359.57	12,307.0	50.4	851.5	138.5	12.00	12.00	0.00
12,450.0	56.64	359.57	12,321.3	70.9	851.4	158.8	12.00	12.00	0.00
12,475.0	59.64	359.57	12,334.5	92.1	851.2	179.9	12.00	12.00	0.00
12,500.0	62.64	359.57	12,346.6	114.0	851.1	201.7	12.00	12.00	0.00
12,525.0	65.64	359.57	12,357.5	136.5	850.9	224.1	12.00	12.00	0.00
12,550.0	68.64	359.57	12,367.2	159.6	850.7	247.0	12.00	12.00	0.00
12,575.0	71.64	359.57	12,375.7	183.1	850.6	270.3	12.00	12.00	0.00
12,600.0	74.64	359.57	12,382.9	207.0	850.4	294.1	12.00	12.00	0.00
12,625.0	77.64	359.57	12,388.9	231.3	850.2	318.2	12.00	12.00	0.00
12,650.0	80.64	359.57	12,393.6	255.8	850.0	342.6	12.00	12.00	0.00
12,675.0	83.64	359.57	12,397.0	280.6	849.8	367.2	12.00	12.00	0.00
12,700.0	86.64	359.57	12,399.1	305.5	849.6	392.0	12.00	12.00	0.00
12,725.0	89.64	359.57	12,400.0	330.5	849.5	416.8	12.00	12.00	0.00
12,728.0	90.00	359.57	12,400.0	333.4	849.4	419.8	12.00	12.00	0.00
12,800.0	90.00	359.57	12,400.0	405.5	848.9	491.3	0.00	0.00	0.00
12,900.0	90.00	359.57	12,400.0	505.5	848.1	590.7	0.00	0.00	0.00
13,000.0	90.00	359.57	12,400.0	605.5	847.4	690.1	0.00	0.00	0.00
13,100.0	90.00	359.57	12,400.0	705.4	846.7	789.5	0.00	0.00	0.00
13,200.0	90.00	359.57	12,400.0	805.4	845.9	888.9	0.00	0.00	0.00
13,300.0	90.00	359.57	12,400.0	905.4	845.2	988.2	0.00	0.00	0.00
13,400.0	90.00	359.57	12,400.0	1,005.4	844.4	1,087.6	0.00	0.00	0.00



Planning Report

Database: EDM
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 Wellbore: OH
 Design: Plan #0.2

Local Co-ordinate Reference: Well #707H
 TVD Reference: KB = 25 @ 3358.0usft
 MD Reference: KB = 25 @ 3358.0usft
 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)
13,500.0	90.00	359.57	12,400.0	1,105.4	843.7	1,187.0	0.00	0.00	0.00
13,600.0	90.00	359.57	12,400.0	1,205.4	842.9	1,286.4	0.00	0.00	0.00
13,700.0	90.00	359.57	12,400.0	1,305.4	842.2	1,385.8	0.00	0.00	0.00
13,800.0	90.00	359.57	12,400.0	1,405.4	841.4	1,485.1	0.00	0.00	0.00
13,900.0	90.00	359.57	12,400.0	1,505.4	840.7	1,584.5	0.00	0.00	0.00
14,000.0	90.00	359.57	12,400.0	1,605.4	839.9	1,683.9	0.00	0.00	0.00
14,100.0	90.00	359.57	12,400.0	1,705.4	839.2	1,783.3	0.00	0.00	0.00
14,200.0	90.00	359.57	12,400.0	1,805.4	838.4	1,882.7	0.00	0.00	0.00
14,300.0	90.00	359.57	12,400.0	1,905.4	837.7	1,982.0	0.00	0.00	0.00
14,400.0	90.00	359.57	12,400.0	2,005.4	836.9	2,081.4	0.00	0.00	0.00
14,500.0	90.00	359.57	12,400.0	2,105.4	836.2	2,180.8	0.00	0.00	0.00
14,600.0	90.00	359.57	12,400.0	2,205.4	835.5	2,280.2	0.00	0.00	0.00
14,700.0	90.00	359.57	12,400.0	2,305.4	834.7	2,379.6	0.00	0.00	0.00
14,800.0	90.00	359.57	12,400.0	2,405.4	834.0	2,478.9	0.00	0.00	0.00
14,900.0	90.00	359.57	12,400.0	2,505.4	833.2	2,578.3	0.00	0.00	0.00
15,000.0	90.00	359.57	12,400.0	2,605.4	832.5	2,677.7	0.00	0.00	0.00
15,100.0	90.00	359.57	12,400.0	2,705.4	831.7	2,777.1	0.00	0.00	0.00
15,200.0	90.00	359.57	12,400.0	2,805.4	831.0	2,876.5	0.00	0.00	0.00
15,300.0	90.00	359.57	12,400.0	2,905.4	830.2	2,975.8	0.00	0.00	0.00
15,400.0	90.00	359.57	12,400.0	3,005.4	829.5	3,075.2	0.00	0.00	0.00
15,500.0	90.00	359.57	12,400.0	3,105.4	828.7	3,174.6	0.00	0.00	0.00
15,600.0	90.00	359.57	12,400.0	3,205.4	828.0	3,274.0	0.00	0.00	0.00
15,700.0	90.00	359.57	12,400.0	3,305.4	827.2	3,373.4	0.00	0.00	0.00
15,800.0	90.00	359.57	12,400.0	3,405.4	826.5	3,472.7	0.00	0.00	0.00
15,900.0	90.00	359.57	12,400.0	3,505.4	825.7	3,572.1	0.00	0.00	0.00
16,000.0	90.00	359.57	12,400.0	3,605.4	825.0	3,671.5	0.00	0.00	0.00
16,100.0	90.00	359.57	12,400.0	3,705.4	824.3	3,770.9	0.00	0.00	0.00
16,200.0	90.00	359.57	12,400.0	3,805.4	823.5	3,870.3	0.00	0.00	0.00
16,300.0	90.00	359.57	12,400.0	3,905.4	822.8	3,969.6	0.00	0.00	0.00
16,400.0	90.00	359.57	12,400.0	4,005.4	822.0	4,069.0	0.00	0.00	0.00
16,500.0	90.00	359.57	12,400.0	4,105.4	821.3	4,168.4	0.00	0.00	0.00
16,600.0	90.00	359.57	12,400.0	4,205.3	820.5	4,267.8	0.00	0.00	0.00
16,700.0	90.00	359.57	12,400.0	4,305.3	819.8	4,367.2	0.00	0.00	0.00
16,800.0	90.00	359.57	12,400.0	4,405.3	819.0	4,466.5	0.00	0.00	0.00
16,900.0	90.00	359.57	12,400.0	4,505.3	818.3	4,565.9	0.00	0.00	0.00
17,000.0	90.00	359.57	12,400.0	4,605.3	817.5	4,665.3	0.00	0.00	0.00
17,100.0	90.00	359.57	12,400.0	4,705.3	816.8	4,764.7	0.00	0.00	0.00
17,200.0	90.00	359.57	12,400.0	4,805.3	816.0	4,864.1	0.00	0.00	0.00
17,300.0	90.00	359.57	12,400.0	4,905.3	815.3	4,963.4	0.00	0.00	0.00
17,400.0	90.00	359.57	12,400.0	5,005.3	814.5	5,062.8	0.00	0.00	0.00
17,500.0	90.00	359.57	12,400.0	5,105.3	813.8	5,162.2	0.00	0.00	0.00
17,600.0	90.00	359.57	12,400.0	5,205.3	813.0	5,261.6	0.00	0.00	0.00
17,700.0	90.00	359.57	12,400.0	5,305.3	812.3	5,361.0	0.00	0.00	0.00
17,800.0	90.00	359.57	12,400.0	5,405.3	811.6	5,460.3	0.00	0.00	0.00
17,900.0	90.00	359.57	12,400.0	5,505.3	810.8	5,559.7	0.00	0.00	0.00
18,000.0	90.00	359.57	12,400.0	5,605.3	810.1	5,659.1	0.00	0.00	0.00
18,100.0	90.00	359.57	12,400.0	5,705.3	809.3	5,758.5	0.00	0.00	0.00
18,200.0	90.00	359.57	12,400.0	5,805.3	808.6	5,857.9	0.00	0.00	0.00
18,300.0	90.00	359.57	12,400.0	5,905.3	807.8	5,957.2	0.00	0.00	0.00
18,400.0	90.00	359.57	12,400.0	6,005.3	807.1	6,056.6	0.00	0.00	0.00
18,500.0	90.00	359.57	12,400.0	6,105.3	806.3	6,156.0	0.00	0.00	0.00
18,600.0	90.00	359.57	12,400.0	6,205.3	805.6	6,255.4	0.00	0.00	0.00
18,700.0	90.00	359.57	12,400.0	6,305.3	804.8	6,354.8	0.00	0.00	0.00
18,800.0	90.00	359.57	12,400.0	6,405.3	804.1	6,454.1	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)
18,900.0	90.00	359.57	12,400.0	6,505.3	803.3	6,553.5	0.00	0.00	0.00
19,000.0	90.00	359.57	12,400.0	6,605.3	802.6	6,652.9	0.00	0.00	0.00
19,100.0	90.00	359.57	12,400.0	6,705.3	801.8	6,752.3	0.00	0.00	0.00
19,200.0	90.00	359.57	12,400.0	6,805.3	801.1	6,851.7	0.00	0.00	0.00
19,300.0	90.00	359.57	12,400.0	6,905.3	800.4	6,951.0	0.00	0.00	0.00
19,400.0	90.00	359.57	12,400.0	7,005.3	799.6	7,050.4	0.00	0.00	0.00
19,500.0	90.00	359.57	12,400.0	7,105.3	798.9	7,149.8	0.00	0.00	0.00
19,600.0	90.00	359.57	12,400.0	7,205.3	798.1	7,249.2	0.00	0.00	0.00
19,700.0	90.00	359.57	12,400.0	7,305.3	797.4	7,348.6	0.00	0.00	0.00
19,800.0	90.00	359.57	12,400.0	7,405.3	796.6	7,447.9	0.00	0.00	0.00
19,900.0	90.00	359.57	12,400.0	7,505.3	795.9	7,547.3	0.00	0.00	0.00
20,000.0	90.00	359.57	12,400.0	7,605.3	795.1	7,646.7	0.00	0.00	0.00
20,016.7	90.00	359.57	12,400.0	7,622.0	795.0	7,663.3	0.00	0.00	0.00

Design Targets

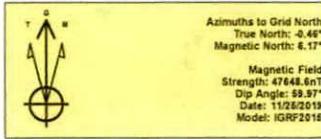
Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
Brushy Top (Osprey 10 # - plan misses target center by 37.5usft at 8084.5usft MD (8029.0 TVD, -144.0 N, 853.0 E) - Polygon	0.00	0.00	8,029.0	-144.0	815.5	415,008.00	812,246.50	32° 8' 16.475 N	103° 27' 29.167 W
Point 1			8,029.0	50.0	-50.0	415,058.00	812,196.50		
Point 2			8,029.0	50.0	30.0	415,058.00	812,276.50		
Point 3			8,029.0	-30.0	30.0	414,978.00	812,276.50		
Point 4			8,029.0	-30.0	-50.0	414,978.00	812,196.50		
KOP (Osprey 10 #707H) - plan hits target center - Point	0.00	0.00	11,922.5	-144.0	853.0	415,008.00	812,284.00	32° 8' 16.472 N	103° 27' 28.731 W
FTP2 (Osprey 10 #707H) - plan misses target center by 0.4usft at 12198.4usft MD (12135.2 TVD, -94.0 N, 852.6 E) - Point	0.00	0.00	12,135.2	-94.0	853.0	415,058.00	812,284.00	32° 8' 16.967 N	103° 27' 28.726 W
PBHL2 (Osprey 10 #707 - plan hits target center - Rectangle (sides W50.0 H0.0 D7,705.7)	90.00	359.61	12,400.0	7,622.0	795.0	422,774.00	812,226.00	32° 9' 33.321 N	103° 27' 28.671 W



Lea County, NM (NAD 83 NME)

Osprey 10 #707H

Plan #0.2



To convert a Magnetic Direction to a Grid Direction, Add 6.17°
 To convert a Magnetic Direction to a True Direction, Add 6.63° East
 To convert a True Direction to a Grid Direction, Subtract 0.46°

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

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

WELL DETAILS: #707H

KB - 25 @ 3358.0usft				3333.0
Northing	Easting	Latitude	Longitude	
415152.00	811421.00	32° 8' 17.965 N	103° 27' 38.637 W	

SECTION DETAILS

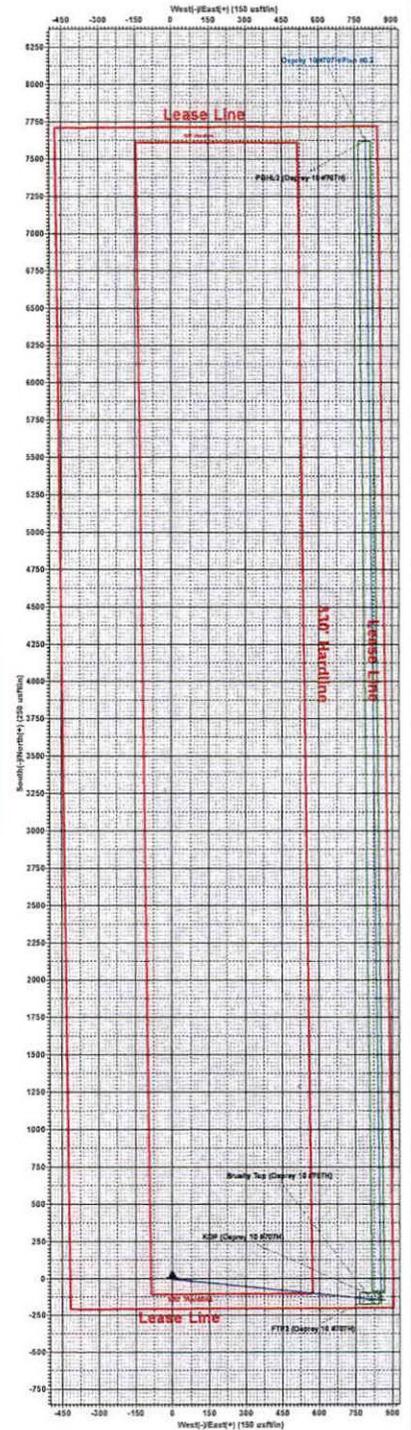
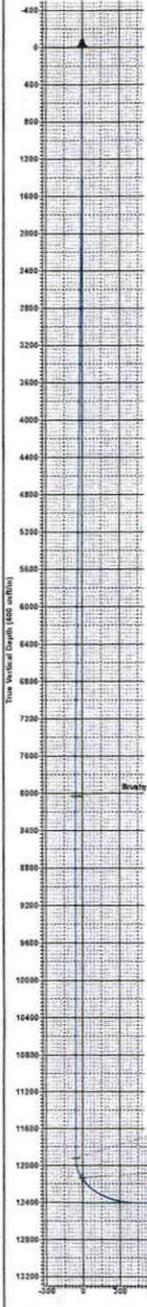
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	Vsect	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	1000.0	0.00	0.00	1000.0	0.0	0.0	0.00	0.00	0.0	
3	1374.1	7.48	99.58	1373.0	-4.1	24.0	2.00	99.58	-1.5	
4	7643.4	7.48	99.58	7589.0	-139.9	829.0	0.00	0.00	-53.2	
5	8017.5	0.00	0.00	7962.0	-144.0	853.0	2.00	180.00	-54.7	
6	11978.0	0.00	0.00	11922.5	-144.0	853.0	0.00	0.00	-54.7	KOP (Osprey 10 #707H)
7	12728.0	90.00	359.57	12400.0	333.4	849.4	12.00	359.57	419.8	
8	20016.7	90.00	359.57	12400.0	7622.0	795.0	0.00	0.00	7663.3	PBHL2 (Osprey 10 #707H)

CASING DETAILS

No casing data is available

WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

Name	TVD	+N/-S	+E/-W	Northing	Easting
KOP (Osprey 10 #707H)	11922.5	-144.0	853.0	415008.00	812284.00
PBHL2 (Osprey 10 #707H)	12400.0	7622.0	795.0	422774.00	812226.00
Brushy Top (Osprey 10 #707H)	8029.0	-144.0	816.5	415008.00	812248.50
FTP2 (Osprey 10 #707H)	12135.2	-84.0	953.0	415068.00	812384.00



Lea County, NM (NAD 83 NME)
 Datum: North American Datum 1983
 Ellipsoid: GRS 1980
 Zone: New Mexico Eastern Zone
 System Datum: Mean Sea Level