Sante Fe Main Office Phone: (505) 476-3441 General Information Phone: (505) 629-6116

State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division Online Phone Directory https://www.emnrd.nm.gov/ocd/contact-us 1220 S. St Francis Dr. **Santa Fe, NM 87505**

Form C-101 August 1, 2011

Permit 388291

		APPLICA	ATION F	OR PERMIT	TO DRILL, RE	ENTER, DI	EEPE	N, PLUGBAC	CK, OR A	DD A	ZONE			
	me and Address									2.	OGRID Numbe	er		
-	G RESOURCES II										7377			
)9 Champions Dri [,] lland, TX 79706	ve								3.	API Number	25-54640		
		1	5 D	N								25-54640		
4. Property Co.	ae 3188		5. Property	OSPREY 10		6. Well No. 001H								
010	7100			OOI ILLI 10							00111			
1						face Location	1	1			1		_	
UL - Lot M	Section 10	Township 2	5S	Range 34E	Lot Idn	Feet From 41	13	N/S Line S	Feet Fro	om 1118	E/W Li	ne W	County	Lea
	•	•	•		8. Proposed I	Bottom Hole I	_ocatio	n	Ť		*		*	
UL - Lot	Section	Township	Ra	nge	Lot Idn	Feet From		N/S Line	Feet F	rom	E/W Lir	ne	County	
L	3	258	3	34E	L	25	39	S		792		W		Lea
					9. Pod	Information	1							
VACA RIDGE	;DELAWARE										97161			
					Additiona	l Well Informa	ation							
11. Work Type 12. Well Type 13. Cable/Rot OIL					. Cable/Rotary		14. Le	ease Type		15. Groui	nd Level Eleva	ation		
16. Multiple	w vveii	17. Propose		10	. Formation		10 C	Private ontractor		20 Cmud	3333 . Spud Date			
N			6680	10	Delaware					zu. Spuu	5/16/2025			
Depth to Groun	nd water		-	Di	stance from nearest fr	esh water well	1			Distance	to nearest surf	ace water		
⊠ We will be	using a closed-lo	op system in li	eu of lined	d pits										
	.			•	21. Proposed Cas	ing and Cem	ent Pro	ngram						
Type	Hole Size	Casin	g Size		sing Weight/ft		etting De		Sack	s of Ceme	ent	F	Estimated TO	oc
Surf	13	10.	.75		40.5		985			320 0			0	
Int1	9.875	8.6	25		32		5179	5179 68			680 0			
Prod	7.875	_	3		24.5		8540			1520 4679				
Prod	6.75	5.	.5		20		16680)		1520			4679	
				Ca	sing/Cement Pro	gram: Additio	nal Co	mments						
					22. Proposed Blo	wout Prevent	ion Pro							
	Туре			Woi	king Pressure	1		Test Pres			Manufacturer			
	Double Ram				5000			3000)					
23 I hereby o	certify that the info	rmation diven a	hove is tri	ie and comple	te to the best of m	,			OII CONS	FRVATIO	ON DIVISION			
knowledge a	,	illiadoli giveli a	ibove is tit	de and comple	te to the best of m	′			OIL CONS	LIVAIN	OIN DIVISION			
		d with 19.15.1	4.9 (A) NM	IAC ⊠and/or	19.15.14.9 (B) NM	AC								
⋈, if applical	ble.													
Signature:														
Printed Name:	Electronica	Illy filed by Kris	tina Agee			Approved	By:	Matthew G	omez					
Title:		gulatory Admin				Title:								
Email Address:	,	gee@eogreso		1		Approved	Date:	5/13/2025			Expiration D	Date: 5/13/	2027	
Date:	4/25/2025			hone: 432-686	-6996			pproval Attache			1		-	
	020			000	-			11						

<u>C-102</u>			Energy		State of New ls & Natura	w Mexico al Resources	Department		Revis	ed July 9, 2024	
Submit Electroni Via OCD Permit			0,	*		TION DIVIS	1		XInitial Submittal		
								Submittal Type:	Amended Report		
								Турс.	As Drilled	As Drilled	
		W	ELL LC	CATIO	N AND AC	CREAGE DI	EDICATION	N PLAT			
API Number 30-025-5	4640		Pool Code	97161	Pool 1	Name	VACA RIDGI	E;DELAWA	RE		
Property Code	313188	·	Property Name		OSF	PREY 10 Well Number					
OGRID No.	7377		Operator Name		EOG RESC	OURCES, INC) .		Ground Level Elev	ation 3333'	
Surface Owner:	State X Fee	Tribal Federal				Mineral Owner:	State X Fee Tribal	Federal			
					Surface	Location					
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the N/S	Feet from the E/W	Latitude		Longitude	County	
М	10	25-S	34-E	-	413' S	1118' W	N 32.1389 ⁻	126 W 1	03.4627223	LEA	
						ole Location		•			
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the N/S		Latitude		Longitude	County	
L	3	25-S	34-E	-	2539' S	792' W	N 32.1592	669 W 1	03.4637551	LEA	
Dedicated Acres	Infill or Def	ining Well Defin	ing Well API			Overlapping Spacing	r Unit (V/N)	Consolida	ted Code		
240.00	DEFIN	-					N	Consorida	F		
Order Numbers			ING POO	LING		<u> </u>	nder Common Ownersh	in: DVes DN			
order reamous		1 LIND	110100	LIIVO	W. 1 0.00	1	ider common c mileton	.p			
UL or lot no.	Section	Township	Range	Lot Idn	K1CK Off	Point (KOP) Feet from the E/W	Latitude		Longitude	County	
M	10	25-S	34-E	_	50' S	792' W	N 32.1379	₁₄₈ _{W 1}	03.4637761	LEA	
		_									
UL or lot no.	Section	Township	Range	Lot Idn		Point (FTP) Feet from the E/W	Latitude	<u> </u>	Longitude	County	
M	10	25-S	34-E	-	100' S	792' W	N 32.1380	522 W 1	03.4637759	LEA	
	10	200	04				14 02.10000	322 W 1	00.4007700		
UL or lot no.	G 4:	T	n	T -4 T.I	Last Take Feet from the N/S	Point (LTP) Feet from the E/W	Latitude		Yanakada	Country	
UL of lot no.	Section 3	Township 25-S	Range 34-E	Lot Idn	2539' S	792' W	N 32.15926	660 W 1	Longitude 03.4637551	County LEA	
		25-5	34-E	_	2339 3	192 VV	N 32.13920	009 00 1	03.4037331	LEA	
Tr. St. 1 A	CAT .C			Ia : 11 :	T.		lo i	El El «			
Unitized Area or A	UNITIZE			Spacing Unity	Horizon	tal Vertical	Ground	Floor Elevation	3358'		
						T	<u> </u>				
I hereby certi best of my kr that this orga in the land i well at this l or unleased n pooling order	fy that the in nowledge and nization eith ncluding the ncation pursu nineral intere heretofore ent	belief; and, if er owns a wor, proposed botton ant to a contro st, or to a volvered by the di	the well is a king interest in hole location act with an or interpoling vision.	vertical or of or unleased no or has a riwner of a wo agreement o	r a compulsory	I hereby certify notes of actual	RS CERTIFICA	ition shown on me or under m	this plat mon plotte y Appenision and KN MEX	d from field that the same	
If this well is a horizontal well, I further certify that this organization has received The consent of at least one lessee or owner of a working interest or unleased mineral interest in each tract (in the target pool or formation) in which any part of the well's completed interval will be located or obtained a compulsory pooling order from the division.								A BOULT	6:43 AM	To the little of	
Ko	iyla W	NcCons	rell	04/24	4/2025			4/15/2025 9:5	6:43 AM	w.	
Signature	YLA MCC		Date			Signature and Seal	of Professional Surveyo	or Dat	e		
	MCCONN	IELL@EO	GRESOU	RCES.CC	M	Certificate Number	Date of	of Survey 04/04/2025			
E-mail Address						1					

Released to Imaging: 5/13/2025 10: 20148 AM

<u>C-102</u>	Energy.	State of New Mexico Minerals & Natural Resources Department		Revised July 9, 2024
Submit Electronically Via OCD Permitting		L CONSERVATION DIVISION		▼ Initial Submittal
			Submittal Type:	Amended Report
			Type.	As Drilled
Property Name and Well Number		OSPREY 10 1H		
SURFACE LOCATION (SHL) NEW MEXICO EAST NAD 1983 X=810813 Y=415361 LAT.: N 32.1389126 LONG.: W 103.4627223 NAD 1927 X=769627 Y=415303 LAT.: N 32.1387881 LONG.: W 103.4622534 413' FSL 1118' FWL KICK OFF POINT (KOP) NEW MEXICO EAST NAD 1983 X=810490 Y=414996 LAT.: N 32.1379148 LONG.: W 103.4637761 NAD 1927 X=769304 Y=414938 LAT.: N 32.1377903 LONG.: W 103.4633073 50' FSL 792' FWL	X=809641.05 Y=422857.60 X=809663.70 Y=420218.35 X=809681.08 Y=417580.05 X=809698.47 Y=414940.15	34 T-24-S, R-34-E 3 T-25-S, R-34-E 3 LOT 4 LOT 3 LOT 2 LOT 1 LOT 4 LOT 3 LOT 2 LOT 1 AND SELECTION OF SEL	SUR's plate was made by sade by sade by Signature a	

Sante Fe Main Office Phone: (505) 476-3441

General Information
Phone: (505) 629-6116
Online Phone Directory
https://www.emnrd.nm.gov/ocd/contact-us

State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division 1220 S. St Francis Dr. Santa Fe, NM 87505

Form APD Conditions

Permit 388291

PERMIT CONDITIONS OF APPROVAL

Operator Name and Address:	API Number:
EOG RESOURCES INC [7377]	30-025-54640
5509 Champions Drive	Well:
Midland, TX 79706	OSPREY 10 #001H

OCD Reviewer	Condition
matthew.gomez	A [C-103] Sub. Drilling (C-103N) is required within (10) days of spud.
matthew.gomez	Notify the OCD 24 hours prior to casing & cement.
	Once the well is spud, to prevent ground water contamination through whole or partial conduits from the surface, the operator shall drill without interruption through the fresh water zone or zones and shall immediately set in cement the water protection string.
	Oil base muds are not to be used until fresh water zones are cased and cemented providing isolation from the oil or diesel. This includes synthetic oils. Oil based mud, drilling fluids and solids must be contained in a steel closed loop system.
matthew.gomez	Cement is required to circulate on both surface and intermediate1 strings of casing.
matthew.gomez	If cement does not circulate on any string, a Cement Bond Log (CBL) is required for that string of casing.
matthew.gomez	File As Drilled C-102 and a directional Survey with C-104 completion packet.



EOG Batch Casing

Pad Name: Osprey 10

SHL: Section 10, Township 25-S, Range 34-E, LEA County, NM

Well Name	API#	Surface Int		Intern	nediate	Produ	5,680 9,100 7,108 9,490 7,065 9,490 7,150 9,490 3,863 11,240 9,077 11,240 9,049 11,372 9,354 11,372 9,114 11,372 9,138 11,372 9,694 11,848 9,655 11,904 9,800 12,015
wen Name	A11#	MD	TVD	MD	TVD	MD	TVD
OSPREY 10 #1H	30-025-****	985	985	5,179	5,161	16,680	9,100
OSPREY 10 #111H	30-025-****	985	985	5,218	5,161	17,108	9,490
OSPREY 10 #112H	30-025-****	985	985	5,173	5,161	17,065	9,490
OSPREY 10 #113H	30-025-****	985	985	5,260	5,161	17,150	9,490
OSPREY 10 #510H (501H)	30-025-53056	985	985	5,223	5,161	18,863	11,240
OSPREY 10 #511H (502H)	30-025-53057	985	985	5,163	5,161	18,805	11,240
OSPREY 10 #512H	30-025-****	985	985	5,461	5,161	19,077	11,240
OSPREY 10 #520H (101H)	30-025-53053	985	985	5,280	5,161	19,049	11,372
OSPREY 10 #521H (102H)	30-025-53054	985	985	5,178	5,161	18,952	11,372
OSPREY 10 #522H	30-025-****	985	985	5,640	5,161	19,354	11,372
OSPREY 10 #523H	30-025-****	985	985	5,352	5,161	19,114	11,372
OSPREY 10 #524H	30-025-****	985	985	5,378	5,161	19,138	11,372
OSPREY 10 #581H	30-025-****	985	985	5,472	5,161	19,694	11,848
OSPREY 10 #597H	30-025-****	985	985	11,671	11,472	19,655	11,904
OSPREY 10 #613H	30-025-****	985	985	11,711	11,472	19,800	12,015
OSPREY 10 #614H	30-025-****	985	985	11,717	11,472	19,806	12,015



EOG Batch Casing

GEOLOGIC NAME OF SURFACE FORMATION:

Permian

ESTIMATED TOPS OF IMPORTANT GEOLOGICAL MARKERS:

Rustler	875'
Tamarisk Anhydrite	960'
Top of Salt	1,255'
Base of Salt	5,061'
Lamar	5,323'
Bell Canyon	5,346'
Cherry Canyon	6,301'
Brushy Canyon	7,887'
Bone Spring Lime	9,298'
Leonard (Avalon) Shale	9,335'
1st Bone Spring Sand	10,317'
2nd Bone Spring Shale	10,533'
2nd Bone Spring Sand	10,836'
3rd Bone Spring Carb	11,372'
3rd Bone Spring Sand	11,904'

ESTIMATED DEPTHS OF ANTICIPATED FRESH WATER, OIL OR GAS:

Upper Permian Sands	0- 400'	Fresh Water
Bell Canyon	5,346'	Oil
Cherry Canyon	6,301'	Oil
Brushy Canyon	7,887'	Oil
Leonard (Avalon) Shale	9,335'	Oil
1st Bone Spring Sand	10,317'	Oil
2nd Bone Spring Shale	10,533'	Oil
2nd Bone Spring Sand	10,836'	Oil

No other Formations are expected to give up oil, gas or fresh water in measurable quantities. Surface fresh water sands will be protected by setting surface casing at 990' and circulating cement back to surface.



Break-test BOP & Offline Cementing:

EOG Resources Inc. (EOG) respectfully requests a variance from the minimum standards for well control equipment testing of ECFR Title 43 Part 3172.6(b)(9)(iv) to allow a testing schedule of the blow out preventer (BOP) and blow out prevention equipment (BOPE) along with Batch Drilling & Offline cement operations to include the following:

- Full BOPE test at first installation on the pad.
- Full BOPE test every 30 days.
- This test will be conducted for 5M rated hole intervals only.
- Each rig requesting the break-test variance is capable of picking up the BOP without damaging components using winches, following API Standard 53, Well Control Equipment Systems for Drilling Wells (Fifth edition, December 2018, Annex C. Table C.4) which recognizes break testing as an acceptable practice.
- Function tests will be performed on the following BOP elements:
 - Annular à during each full BOPE test
 - Upper Pipe Rams à On trip ins where FIT required
 - Blind Rams à Every trip
 - Lower Pipe Rams à during each full BOPE test
- Break testing BOP and BOPE coupled with batch drilling operations and option to offline cement and/or remediate (if needed) any surface or intermediate sections, according to attached offline cementing support documentation.
- After the well section is secured, the BOP will be disconnected from the wellhead and walked with the rig to another well on the pad.
- TA cap will also be installed per Wellhead vendor procedure and pressure inside the
 casing will be monitored via the valve on the TA cap as per standard batch drilling
 ops.

Received by OCD: 4/25/2025 11:46:52 AM

Page 8 of 31

Blind Rams

Roadside Kill

Test plug

Break Test Diagram (HCR valve)

Steps 1. Se

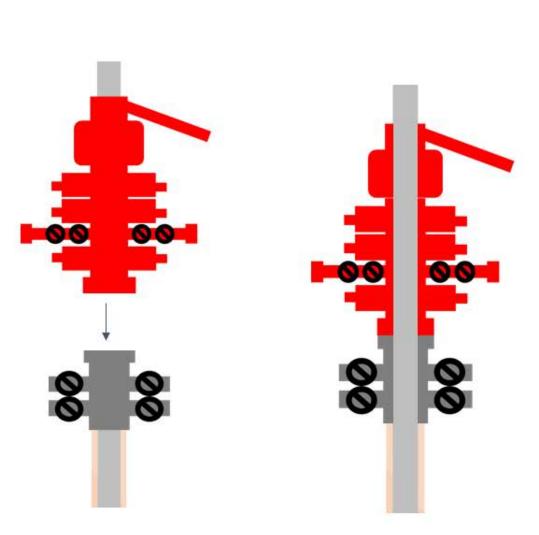
Pressure

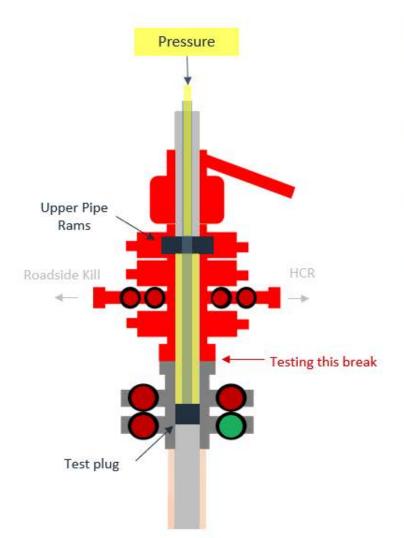
HCR

Testing this break

- 1. Set plug in wellhead (lower barrier)
- 2. Close Blind Rams (upper barrier)
- 3. Close roadside kill
- 4. Open HCR (pressure application)
- Open wellhead valves below test plug to ensure if leak past test plug, pressure won't be applied to wellbore
- Tie BOP testers high pressure line to main choke manifold crown valve
- 7. Pressure up to test break
- Bleed test pressure from BOP testing unit

Break Test Diagram (Test Joint)





Steps

- 1. Set plug in with test joint wellhead (lower barrier)
- 2. Close Upper Pipe Rams (upper barrier)
- Close roadside kill
- Close HCR
- 5. Open wellhead valves below test plug to ensure if leak past test plug, pressure won't be applied to wellbore
- 6. Tie BOP testers high pressure line to top of test joint
- 7. Pressure up to test break
- 8. Bleed test pressure from BOP testing unit



Midland

Lea County, NM (NAD 83 NME) Osprey 10 #1H

OH

Plan: Plan #0.1 RT

Standard Planning Report

21 April, 2025



Planning Report

Database: PEDMB Company: Midland

Project: Lea County, NM (NAD 83 NME)

 Site:
 Osprey 10

 Well:
 #1H

 Wellbore:
 OH

 Design:
 Plan #0.1 RT

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:
Survey Calculation Method:

Well #1H

kb = 26' @ 3359.0usft kb = 26' @ 3359.0usft

Grid

Minimum Curvature

Project Lea County, NM (NAD 83 NME)

Map System:US State Plane 1983Geo Datum:North American Datum 1983Map Zone:New Mexico Eastern Zone

tate Plane 1983 System Datum:

Mean Sea Level

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 "

Well #1H

0.0 usft **Well Position** +N/-S Northing: 415,361.00 usft Latitude: 32° 8' 20.083 N +E/-W 0.0 usft Easting: 810,813.00 usft Longitude: 103° 27' 45.805 W **Position Uncertainty** 0.0 usft Wellhead Elevation: usft **Ground Level:** 3,333.0 usft

Grid Convergence: 0.46 °

Wellbore OH

 Magnetics
 Model Name
 Sample Date
 Declination (°)
 Dip Angle (°)
 Field Strength (nT)

 IGRF2025
 4/21/2025
 6.21
 59.70
 47,004.71009616

Design Plan #0.1 RT

Audit Notes:

Version:Phase:PLANTie On Depth:0.0

 Vertical Section:
 Depth From (TVD) (usft)
 +N/-S +E/-W (usft)
 Direction (usft)

 0.0
 0.0
 0.0
 357.07

Plan Survey Tool Program Date 4/21/2025

Depth From Depth To

(usft) (usft) Survey (Wellbore) Tool Name Remarks

1 0.0 16,680.0 Plan #0.1 RT (OH) EOG MWD+IFR1

MWD + IFR1



Planning Report

TVD Reference:

MD Reference:

PEDMB Database: Company: Midland

Project: Lea County, NM (NAD 83 NME)

Osprey 10 Site: Well: #1H ОН Wellbore: Design: Plan #0.1 RT

North Reference:

Survey Calculation Method:

Local Co-ordinate Reference:

Well #1H

kb = 26' @ 3359.0usft kb = 26' @ 3359.0usft

Grid

an 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	
1,085.0	0.00	0.00	1,085.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,296.5	4.23	221.51	1,296.3	-5.8	-5.2	2.00	2.00	0.00	221.51	
7,693.3	4.23	221.51	7,675.7	-359.2	-317.8	0.00	0.00	0.00	0.00	
7,904.8	0.00	0.00	7,887.0	-365.0	-323.0	2.00	-2.00	0.00	180.00	
8,640.3	0.00	0.00	8,622.5	-365.0	-323.0	0.00	0.00	0.00	0.00	KOP(Osprey 10 #1H)
8,860.8	26.46	0.00	8,835.2	-315.0	-323.0	12.00	12.00	0.00	0.00	FTP(Osprey 10 #1H)
9,390.3	90.00	359.58	9,099.9	112.5	-325.2	12.00	12.00	-0.08	-0.47	
16,680.0	90.00	359.58	9,100.0	7,402.0	-379.0	0.00	0.00	0.00	0.00	PBHL(Osprey 10 #1H

beog resources

Planning Report

Database: PEDMB Company: Midland

Project: Lea County, NM (NAD 83 NME)

 Site:
 Osprey 10

 Well:
 #1H

 Wellbore:
 OH

 Design:
 Plan #0.1 RT

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:
Survey Calculation Method:

Well #1H

kb = 26' @ 3359.0usft kb = 26' @ 3359.0usft

Grid

Design:	Plan #0.1 RT								
Planned Survey									
Measured Depth	Inclination	Azimuth	Vertical Depth	+N/-S	+E/-W	Vertical Section	Dogleg Rate	Build Rate	Turn Rate
(usft)	(°)	(°)	(usft)	(usft)	(usft)	(usft)	(°/100usft)	(°/100usft)	(°/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
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
1,085.0	0.00	0.00	1,085.0	0.0	0.0	0.0	0.00	0.00	0.00
1,100.0	0.30	221.51	1,100.0	0.0	0.0	0.0	2.00	2.00	0.00
1,200.0	2.30	221.51	1,200.0	-1.7	-1.5	-1.6	2.00	2.00	0.00
1,296.5	4.23	221.51	1,296.3	-5.8	-5.2	-5.6	2.00	2.00	0.00
1,300.0	4.23	221.51	1,299.8	-6.0	-5.3	-5.8	0.00	0.00	0.00
1,400.0	4.23	221.51	1,399.5	-11.6	-10.2	-11.0	0.00	0.00	0.00
1,500.0	4.23	221.51	1,499.3	-17.1	-15.1	-16.3	0.00	0.00	0.00
1,600.0	4.23	221.51	1,599.0	-22.6	-20.0	-21.6	0.00	0.00	0.00
1,700.0	4.23	221.51	1,698.7	-28.1	-24.9	-26.8	0.00	0.00	0.00
1,800.0	4.23	221.51	1,798.4	-33.7	-29.8	-32.1	0.00	0.00	0.00
1,900.0	4.23	221.51	1,898.2	-39.2	-34.7	-37.4	0.00	0.00	0.00
2,000.0	4.23	221.51	1,997.9	-44.7	-39.6	-42.6	0.00	0.00	0.00
2,100.0	4.23	221.51	2,097.6	-50.2	-44.4	-47.9	0.00	0.00	0.00
2,200.0	4.23	221.51	2,197.3	-55.7	-49.3	-53.2	0.00	0.00	0.00
2,300.0	4.23	221.51	2,297.1	-61.3	-54.2	-58.4	0.00	0.00	0.00
2,400.0	4.23	221.51	2,396.8	-66.8	-59.1	-63.7	0.00	0.00	0.00
2,500.0	4.23	221.51	2,496.5	-72.3	-64.0	-68.9	0.00	0.00	0.00
2,600.0	4.23	221.51	2,596.3	-77.8	-68.9	-74.2	0.00	0.00	0.00
2,700.0	4.23	221.51	2,696.0	-83.4	-73.8	-79.5	0.00	0.00	0.00
2,800.0	4.23	221.51	2,795.7	-88.9	-78.7	-84.7	0.00	0.00	0.00
2,900.0	4.23	221.51	2,895.4	-94.4	-83.5	-90.0	0.00	0.00	0.00
3,000.0	4.23	221.51	2,995.2	-99.9	-88.4	-95.3	0.00	0.00	0.00
3,100.0	4.23	221.51	3,094.9	-105.5	-93.3	-100.5	0.00	0.00	0.00
3,200.0	4.23	221.51	3,194.6	-111.0	-98.2	-105.8	0.00	0.00	0.00
3,300.0	4.23	221.51	3,294.4	-116.5	-103.1	-111.1	0.00	0.00	0.00
3,400.0	4.23	221.51	3,394.1	-122.0	-103.1	-116.3	0.00	0.00	0.00
3,500.0	4.23	221.51	3,493.8	-122.0	-112.9	-110.3	0.00	0.00	0.00
3,600.0	4.23	221.51	3,593.5	-127.5	-117.8	-121.0	0.00	0.00	0.00
3,700.0	4.23	221.51	3,693.3	-138.6	-117.6	-120.9	0.00	0.00	0.00
3,800.0	4.23	221.51	3,793.0	-144.1	-127.5	-137.4	0.00	0.00	0.00
3,900.0	4.23	221.51	3,892.7	-149.6	-132.4	-142.7	0.00	0.00	0.00
4,000.0	4.23	221.51	3,992.4	-155.2	-137.3	-147.9	0.00	0.00	0.00
4,100.0	4.23	221.51	4,092.2	-160.7	-142.2	-153.2	0.00	0.00	0.00
4,200.0	4.23	221.51	4,191.9	-166.2	-147.1	-158.5	0.00	0.00	0.00
4,300.0	4.23	221.51	4,291.6	-171.7	-152.0	-163.7	0.00	0.00	0.00
4,400.0	4.23	221.51	4,391.4	-177.3	-156.9	-169.0	0.00	0.00	0.00
4,500.0	4.23	221.51	4,491.1	-182.8	-161.7	-174.3	0.00	0.00	0.00
4,600.0	4.23	221.51	4,590.8	-188.3	-166.6	-179.5	0.00	0.00	0.00
4,700.0	4.23	221.51	4,690.5	-193.8	-171.5	-184.8	0.00	0.00	0.00
4,800.0	4.23	221.51	4,790.3	-199.4	-176.4	-190.1	0.00	0.00	0.00
4,900.0	4.23	221.51	4,890.0	-204.9	-181.3	-195.3	0.00	0.00	0.00
5,000.0	4.23	221.51	4,989.7	-210.4	-186.2	-200.6	0.00	0.00	0.00
5,100.0	4.23	221.51	5,089.4	-215.9	-191.1	-205.9	0.00	0.00	0.00

eog resources

Planning Report

PEDMB Database: Company: Midland

Project: Lea County, NM (NAD 83 NME)

Osprey 10 Site: Well: #1H ОН Wellbore:

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

kb = 26' @ 3359.0usft kb = 26' @ 3359.0usft Grid

Well #1H

Design:	Plan #0.1 RT								
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)
5,200.0	4.23	221.51	5,189.2	-221.4	-196.0	-211.1	0.00	0.00	0.00
5,300.0	4.23	221.51	5,288.9	-227.0	-200.9	-216.4	0.00	0.00	0.00
5,400.0	4.23	221.51	5,388.6	-232.5	-205.7	-221.7	0.00	0.00	0.00
5,500.0	4.23	221.51	5,488.4	-238.0	-210.6	-226.9	0.00	0.00	0.00
5,600.0	4.23	221.51	5,588.1	-243.5	-215.5	-232.2	0.00	0.00	0.00
5,700.0	4.23	221.51	5,687.8	-249.1	-220.4	-237.5	0.00	0.00	0.00
5,800.0	4.23	221.51	5,787.5	-254.6	-225.3	-242.7	0.00	0.00	0.00
5,900.0	4.23	221.51	5,887.3	-260.1	-230.2	-248.0	0.00	0.00	0.00
6,000.0	4.23	221.51	5,987.0	-265.6	-235.1	-253.3	0.00	0.00	0.00
6,100.0	4.23	221.51	6,086.7	-271.2	-240.0	-258.5	0.00	0.00	0.00
6,200.0	4.23	221.51	6,186.5	-276.7	-244.8	-263.8	0.00	0.00	0.00
6,300.0	4.23	221.51	6,286.2	-282.2	-249.7	-269.1	0.00	0.00	0.00
6,400.0	4.23	221.51	6,385.9	-287.7	-254.6	-274.3	0.00	0.00	0.00
6,500.0	4.23	221.51	6,485.6	-293.2	-259.5	-279.6	0.00	0.00	0.00
6,600.0	4.23	221.51	6,585.4	-298.8	-264.4	-284.9	0.00	0.00	0.00
6,700.0	4.23	221.51	6,685.1	-304.3	-269.3	-290.1	0.00	0.00	0.00
6,800.0	4.23	221.51	6,784.8	-309.8	-274.2	-295.4	0.00	0.00	0.00
6,900.0	4.23	221.51	6,884.5	-315.3	-279.1	-300.7	0.00	0.00	0.00
7,000.0	4.23	221.51	6,984.3	-320.9	-283.9	-305.9	0.00	0.00	0.00
7,100.0	4.23	221.51	7,084.0	-326.4	-288.8	-311.2	0.00	0.00	0.00
7,200.0	4.23	221.51	7,183.7	-331.9	-293.7	-316.5	0.00	0.00	0.00
7,300.0	4.23	221.51	7,283.5	-337.4	-298.6	-321.7	0.00	0.00	0.00
7,400.0	4.23	221.51	7,383.2	-343.0	-303.5	-327.0	0.00	0.00	0.00
7,500.0	4.23	221.51	7,482.9	-348.5	-308.4	-332.3	0.00	0.00	0.00
7,600.0	4.23	221.51	7,582.6	-354.0	-313.3	-337.5	0.00	0.00	0.00
7,693.3	4.23	221.51	7,675.7	-359.2	-317.8	-342.4	0.00	0.00	0.00
7,700.0	4.10	221.51	7,682.4	-359.5	-318.2	-342.8	2.00	-2.00	0.00
7,800.0	2.10	221.51	7,782.2	-363.6	-321.7	-346.6	2.00	-2.00	0.00
7,904.8	0.00	0.00	7,887.0	-365.0	-323.0	-348.0	2.00	-2.00	0.00
8,000.0 8,100.0	0.00 0.00	0.00 0.00	7,982.2 8,082.2	-365.0 -365.0	-323.0 -323.0	-348.0 -348.0	0.00 0.00	0.00 0.00	0.00 0.00
8,200.0	0.00	0.00	8,182.2	-365.0	-323.0	-348.0	0.00	0.00	0.00
8,300.0	0.00	0.00	8,282.2	-365.0	-323.0	-348.0	0.00	0.00	0.00
8,400.0 8,500.0	0.00 0.00	0.00 0.00	8,382.2 8,482.2	-365.0 -365.0	-323.0 -323.0	-348.0 -348.0	0.00 0.00	0.00 0.00	0.00 0.00
8,600.0	0.00	0.00	6,462.2 8,582.2	-365.0 -365.0	-323.0 -323.0	-346.0 -348.0	0.00	0.00	0.00
8,640.3	0.00	0.00	8,622.5	-365.0	-323.0	-348.0	0.00	0.00	0.00
8,650.0 8,675.0	1.16 4.16	0.00 0.00	8,632.2 8,657.2	-364.9 -363.7	-323.0 -323.0	-347.9 -346.7	12.00 12.00	12.00 12.00	0.00 0.00
8,700.0	7.16	0.00	8,682.0	-361.3	-323.0	-344.3	12.00	12.00	0.00
8,725.0	10.16	0.00	8,706.8	-357.5	-323.0	-340.5	12.00	12.00	0.00
•								12.00	
8,750.0 8,775.0	13.16 16.17	0.00 0.00	8,731.2 8,755.4	-352.5 -346.1	-323.0 -323.0	-335.5 -329.2	12.00 12.00	12.00	0.00 0.00
8,800.0	19.17	0.00	8,779.2	-340.1	-323.0	-329.2 -321.6	12.00	12.00	0.00
8,825.0	22.17	0.00	8,802.6	-329.7	-323.0	-312.8	12.00	12.00	0.00
8,850.0	25.17	0.00	8,825.5	-319.7	-323.0	-302.7	12.00	12.00	0.00
8,860.8	26.46	0.00	8,835.2	-315.0	-323.0	-298.1	12.00	12.00	0.00
8,875.0	28.17	359.97	8,847.9	-313.0	-323.0	-290.1 -291.5	12.00	12.00	-0.21
8,900.0	31.17	359.93	8,869.6	-296.1	-323.0	-279.2	12.00	12.00	-0.18
8,925.0	34.17	359.89	8,890.6	-282.6	-323.0	-265.7	12.00	12.00	-0.15
8,950.0	37.17	359.85	8,910.9	-268.0	-323.1	-251.2	12.00	12.00	-0.13
8,975.0	40.17	359.83	8,930.4	-252.4	-323.1	-235.6	12.00	12.00	-0.11
9,000.0	43.17	359.80	8,949.1	-235.8	-323.2	-219.0	12.00	12.00	-0.10
9,025.0	46.17	359.78	8,966.9	-218.2	-323.2	-201.4	12.00	12.00	-0.09

eog resources

Planning Report

Database: PEDMB Company: Midland

Project: Lea County, NM (NAD 83 NME)

 Site:
 Osprey 10

 Well:
 #1H

 Wellbore:
 OH

 Design:
 Plan #0.1 F

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:
Survey Calculation Method:

Well #1H

kb = 26' @ 3359.0usft kb = 26' @ 3359.0usft

Grid

velibore: Design:	Plan #0.1 RT								
lanned Survey									
Measured Depth	Inclination	Azimuth	Vertical Depth	+N/-S	+E/-W	Vertical Section	Dogleg Rate	Build Rate	Turn Rate
(usft)	(°)	(°)	(usft)	(usft)	(usft)	(usft)	(°/100usft)	(°/100usft)	(°/100usft)
9,050.0 9,075.0	49.17 52.17	359.76 359.74	8,983.7 8,999.6	-199.7 -180.4	-323.3 -323.4	-182.9 -163.6	12.00 12.00	12.00 12.00	-0.08 -0.07
9,100.0	55.17	359.72	9,014.4	-160.3	-323.5	-143.5	12.00	12.00	-0.07
9,125.0	58.17	359.71	9,028.1	-139.4	-323.6	-122.7	12.00	12.00	-0.06
9,150.0	61.17	359.69 359.68	9,040.7	-117.8 -95.6	-323.7 -323.8	-101.1	12.00	12.00	-0.06
9,175.0 9,200.0	64.17 67.17	359.66	9,052.2 9,062.5	-95.6 -72.8	-323.6 -324.0	-78.9 -56.2	12.00 12.00	12.00 12.00	-0.06 -0.05
9,225.0	70.17	359.65	9,071.6	-49.5	-324.1	-32.9	12.00	12.00	-0.05
9,250.0	73.17	359.64	9,079.5	-25.8	-324.2	-9.2	12.00	12.00	-0.05
9,275.0	76.17	359.63	9,086.1	-1.7	-324.4	14.9	12.00	12.00	-0.05
9,300.0	79.17	359.62	9,091.4	22.7	-324.6	39.3	12.00	12.00	-0.05
9,325.0	82.17	359.61	9,095.5	47.4	-324.7	63.9	12.00	12.00	-0.05
9,350.0	85.17	359.59	9,098.2	72.2	-324.9	88.7	12.00	12.00	-0.04
9,375.0	88.17	359.58	9,099.7	97.2	-325.1	113.7	12.00	12.00	-0.04
9,390.3 9,400.0	90.00	359.58 359.58	9,099.9 9,099.9	112.5	-325.2 -325.3	128.9 138.6	12.00 0.00	12.00 0.00	-0.04
9,400.0	90.00 90.00	359.58	9,099.9	122.2 222.2	-325.3 -326.0	238.5	0.00	0.00	0.00 0.00
9,600.0	90.00	359.58	9,099.9	322.2	-326.7	338.4	0.00	0.00	0.00
9,700.0	90.00	359.58	9,099.9	422.2	-327.5	438.4	0.00	0.00	0.00
9,800.0	90.00	359.58	9,099.9	522.2	-328.2	538.3	0.00	0.00	0.00
9,900.0	90.00	359.58	9,099.9	622.2	-328.9	638.2	0.00	0.00	0.00
10,000.0	90.00	359.58	9,100.0	722.2	-329.7	738.1	0.00	0.00	0.00
10,100.0	90.00	359.58	9,100.0	822.2	-330.4	838.0	0.00	0.00	0.00
10,200.0	90.00	359.58	9,100.0	922.1	-331.2	937.9	0.00	0.00	0.00
10,300.0	90.00	359.58	9,100.0	1,022.1	-331.9	1,037.8	0.00	0.00	0.00
10,400.0	90.00	359.58	9,100.0	1,122.1	-332.6	1,137.7	0.00	0.00	0.00
10,500.0	90.00	359.58	9,100.0	1,222.1	-333.4	1,237.6	0.00	0.00	0.00
10,600.0	90.00	359.58	9,100.0	1,322.1	-334.1	1,337.5	0.00	0.00	0.00
10,700.0	90.00	359.58	9,100.0	1,422.1	-334.9	1,437.4	0.00	0.00	0.00
10,800.0	90.00	359.58	9,100.0	1,522.1	-335.6	1,537.3	0.00	0.00	0.00
10,900.0 11,000.0	90.00 90.00	359.58 359.58	9,100.0 9,100.0	1,622.1 1,722.1	-336.3 -337.1	1,637.2 1,737.1	0.00 0.00	0.00 0.00	0.00 0.00
11,100.0	90.00	359.58	9,100.0	1,822.1	-337.8	1,837.0	0.00	0.00	0.00
11,200.0	90.00	359.58	9,100.0	1,922.1	-338.5	1,936.9	0.00	0.00	0.00
11,300.0	90.00	359.58	9,100.0	2,022.1	-339.3	2,036.8	0.00	0.00	0.00
11,400.0	90.00	359.58	9,100.0	2,122.1	-340.0	2,136.7	0.00	0.00	0.00
11,500.0	90.00	359.58	9,100.0	2,222.1	-340.8	2,236.6	0.00	0.00	0.00
11,600.0	90.00	359.58	9,100.0	2,322.1	-341.5	2,336.5	0.00	0.00	0.00
11,700.0	90.00	359.58	9,100.0	2,422.1	-342.2	2,436.4	0.00	0.00	0.00
11,800.0	90.00	359.58	9,100.0	2,522.1	-343.0	2,536.3	0.00	0.00	0.00
11,900.0	90.00	359.58	9,100.0	2,622.1	-343.7	2,636.2	0.00	0.00	0.00
12,000.0	90.00	359.58	9,100.0	2,722.1	-344.4	2,736.2	0.00	0.00	0.00
12,100.0	90.00	359.58	9,100.0	2,822.1	-345.2	2,836.1	0.00	0.00	0.00
12,200.0	90.00	359.58	9,100.0	2,922.1	-345.9	2,936.0	0.00	0.00	0.00
12,300.0	90.00	359.58	9,100.0	3,022.1	-346.7	3,035.9	0.00	0.00	0.00
12,400.0 12,500.0	90.00 90.00	359.58 359.58	9,100.0 9,100.0	3,122.1 3,222.1	-347.4 -348.1	3,135.8 3,235.7	0.00 0.00	0.00 0.00	0.00 0.00
12,600.0	90.00	359.58	9,100.0	3,322.1	-348.9	3,335.6	0.00	0.00	0.00
12,700.0	90.00	359.58	9,100.0	3,422.1	-349.6	3,435.5	0.00	0.00	0.00
12,800.0	90.00	359.58	9,100.0	3,522.1	-350.4	3,535.4	0.00	0.00	0.00
12,900.0	90.00	359.58	9,100.0	3,622.1	-351.1	3,635.3	0.00	0.00	0.00
13,000.0	90.00	359.58	9,100.0	3,722.1	-351.8	3,735.2	0.00	0.00	0.00
13,100.0	90.00	359.58	9,100.0	3,822.1	-352.6	3,835.1	0.00	0.00	0.00
13,200.0	90.00	359.58	9,100.0	3,922.1	-353.3	3,935.0	0.00	0.00	0.00

beog resources

Planning Report

Database: Company:

Project:

PEDMB Midland

Lea County, NM (NAD 83 NME)

 Site:
 Osprey 10

 Well:
 #1H

 Wellbore:
 OH

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Survey Calculation Method:

Well #1H

kb = 26' @ 3359.0usft

kb = 26' @ 3359.0usft Grid

ed 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)
13,300.0	90.00	359.58	9,100.0	4,022.1	-354.0	4,034.9	0.00	0.00	0.00
13,400.0	90.00	359.58	9,100.0	4,122.1	-354.8	4,134.8	0.00	0.00	0.00
13,500.0	90.00	359.58	9,100.0	4,222.1	-355.5	4,234.7	0.00	0.00	0.00
13,600.0	90.00	359.58	9,100.0	4,322.1	-356.3	4,334.6	0.00	0.00	0.00
13,700.0	90.00	359.58	9,100.0	4,422.1	-357.0	4,434.5	0.00	0.00	0.00
13,800.0	90.00	359.58	9,100.0	4,522.0	-357.7	4,534.4	0.00	0.00	0.00
13,900.0	90.00	359.58	9,100.0	4,622.0	-358.5	4,634.3	0.00	0.00	0.00
14,000.0	90.00	359.58	9,100.0	4,722.0	-359.2	4,734.2	0.00	0.00	0.00
14,100.0	90.00	359.58	9,100.0	4,822.0	-360.0	4,834.1	0.00	0.00	0.00
14,200.0	90.00	359.58	9,100.0	4,922.0	-360.7	4,934.0	0.00	0.00	0.00
14,300.0	90.00	359.58	9,100.0	5,022.0	-361.4	5,033.9	0.00	0.00	0.00
14,400.0	90.00	359.58	9,100.0	5,122.0	-362.2	5,133.9	0.00	0.00	0.00
14,500.0	90.00	359.58	9,100.0	5,222.0	-362.9	5,233.8	0.00	0.00	0.00
14,600.0	90.00	359.58	9,100.0	5,322.0	-363.6	5,333.7	0.00	0.00	0.00
14,700.0	90.00	359.58	9,100.0	5,422.0	-364.4	5,433.6	0.00	0.00	0.00
14,800.0	90.00	359.58	9,100.0	5,522.0	-365.1	5,533.5	0.00	0.00	0.00
14,900.0	90.00	359.58	9,100.0	5,622.0	-365.9	5,633.4	0.00	0.00	0.00
15,000.0	90.00	359.58	9,100.0	5,722.0	-366.6	5,733.3	0.00	0.00	0.00
15,100.0	90.00	359.58	9,100.0	5,822.0	-367.3	5,833.2	0.00	0.00	0.00
15,200.0	90.00	359.58	9,100.0	5,922.0	-368.1	5,933.1	0.00	0.00	0.00
15,300.0	90.00	359.58	9,100.0	6,022.0	-368.8	6,033.0	0.00	0.00	0.00
15,400.0	90.00	359.58	9,100.0	6,122.0	-369.6	6,132.9	0.00	0.00	0.00
15,500.0	90.00	359.58	9,100.0	6,222.0	-370.3	6,232.8	0.00	0.00	0.00
15,600.0	90.00	359.58	9,100.0	6,322.0	-371.0	6,332.7	0.00	0.00	0.00
15,700.0	90.00	359.58	9,100.0	6,422.0	-371.8	6,432.6	0.00	0.00	0.00
15,800.0	90.00	359.58	9,100.0	6,522.0	-372.5	6,532.5	0.00	0.00	0.00
15,900.0	90.00	359.58	9,100.0	6,622.0	-373.2	6,632.4	0.00	0.00	0.00
16,000.0	90.00	359.58	9,100.0	6,722.0	-374.0	6,732.3	0.00	0.00	0.00
16,100.0	90.00	359.58	9,100.0	6,822.0	-374.7	6,832.2	0.00	0.00	0.00
16,200.0	90.00	359.58	9,100.0	6,922.0	-375.5	6,932.1	0.00	0.00	0.00
16,300.0	90.00	359.58	9,100.0	7,022.0	-376.2	7,032.0	0.00	0.00	0.00
16,400.0	90.00	359.58	9,100.0	7,122.0	-376.9	7,131.9	0.00	0.00	0.00
16,500.0	90.00	359.58	9,100.0	7,222.0	-377.7	7,231.8	0.00	0.00	0.00
16,600.0	90.00	359.58	9,100.0	7,322.0	-378.4	7,331.7	0.00	0.00	0.00
16,680.0	90.00	359.58	9,100.0	7,402.0	-379.0	7,411.7	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
KOP(Osprey 10 #1H) - plan hits target cen - Point	0.00 ter	0.00	8,622.5	-365.0	-323.0	414,996.00	810,490.00	32° 8′ 16.497 N	103° 27' 49.595 W
FTP(Osprey 10 #1H) - plan hits target cen - Point	0.00 ter	0.00	8,835.2	-315.0	-323.0	415,046.00	810,490.00	32° 8′ 16.992 N	103° 27' 49.591 W
PBHL(Osprey 10 #1H) - plan hits target cen - Point	0.00 ter	0.00	9,100.0	7,402.0	-379.0	422,763.00	810,434.00	32° 9' 33.356 N	103° 27' 49.517 W



Planning Report

PEDMB Database: Company: Midland

Project: Lea County, NM (NAD 83 NME)

Osprey 10 Site: #1H Well: ОН Wellbore: Design: Plan #0.1 RT Local Co-ordinate Reference: TVD Reference: MD Reference:

North Reference:

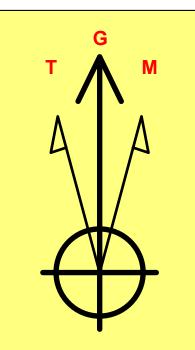
Survey Calculation Method:

Well #1H

kb = 26' @ 3359.0usft kb = 26' @ 3359.0usft

Grid





Azimuths to Grid North True North: -0.46° Magnetic North: 5.74°

> **Magnetic Field** Strength: 47004.7nT Dip Angle: 59.70° Date: 4/21/2025 Model: IGRF2025

To convert a Magnetic Direction to a Grid Direction, Add 5.74° To convert a Magnetic Direction to a True Direction, Add 6.21° East To convert a True Direction to a Grid Direction, Subtract 0.46°

Lea County, NM (NAD 83 NME)

Osprey 10 #1H

Plan #0.1 RT

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**

Easting

810490.00

System Datum: Mean Sea Level

WELL DETAILS: #1H

3333.0

kb = 26' @ 3359.0usft Northing 415361.00 Easting 810813.00

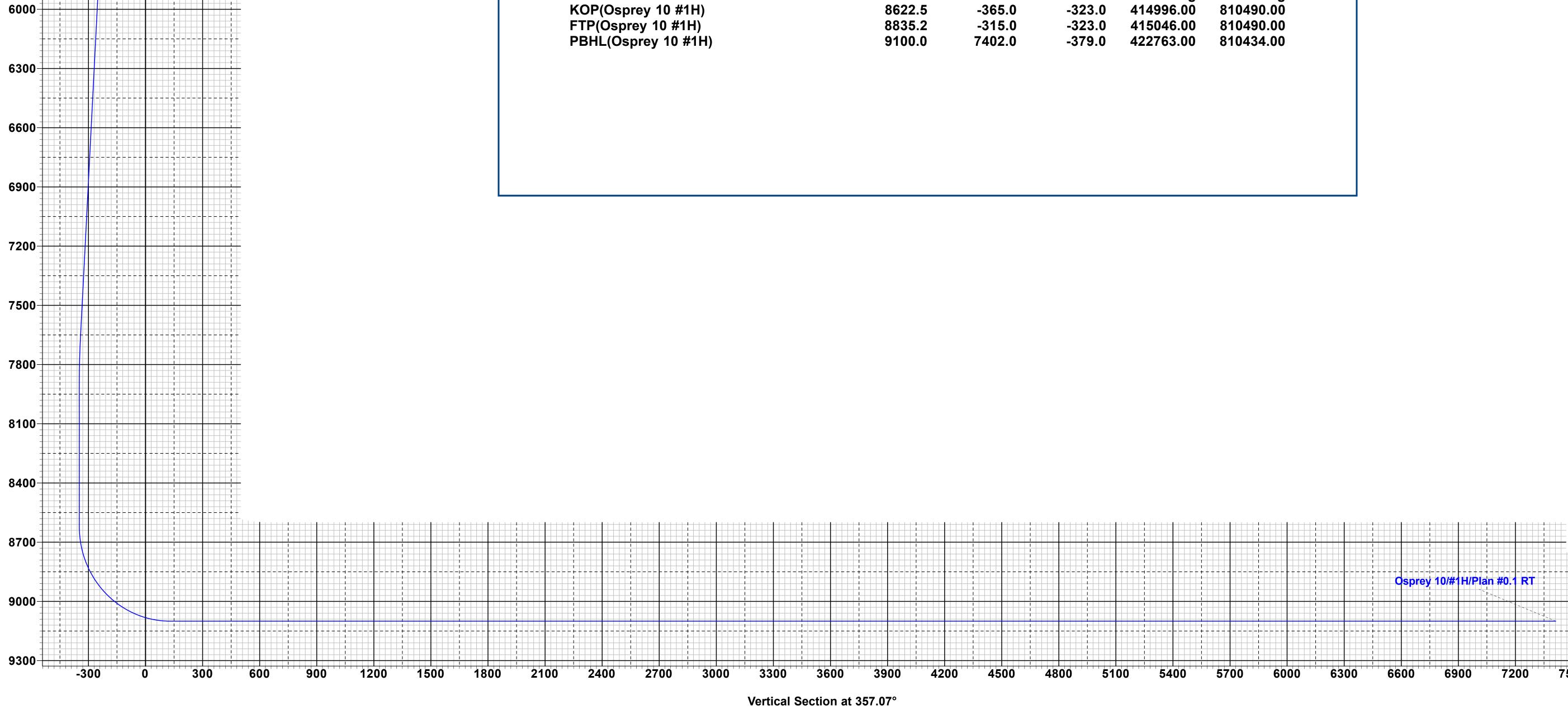
Latittude 32° 8' 20.083 N Longitude 103° 27' 45.805 W

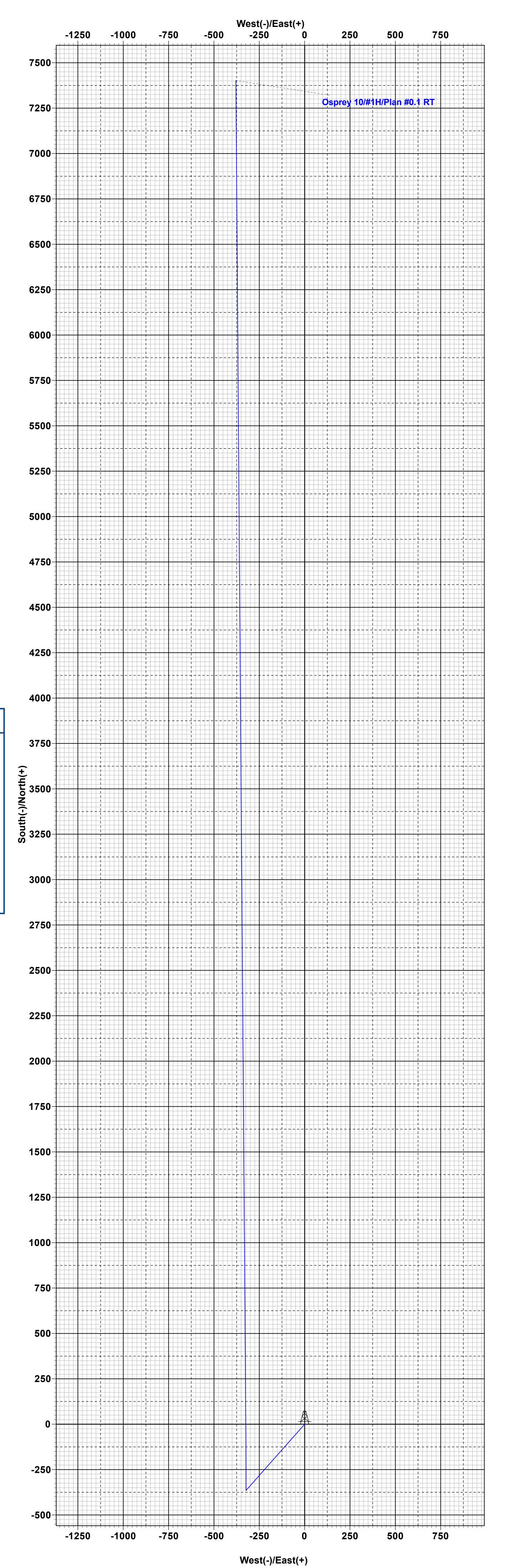
	SECTION DETAILS									
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	1085.0	0.00	0.00	1085.0	0.0	0.0	0.00	0.00	0.0	
3	1296.5	4.23	221.51	1296.3	-5.8	-5.2	2.00	221.51	-5.6	
4	7693.3	4.23	221.51	7675.7	-359.2	-317.8	0.00	0.00	-342.4	
5	7904.8	0.00	0.00	7887.0	-365.0	-323.0	2.00	180.00	-348.0	
6	8640.3	0.00	0.00	8622.5	-365.0	-323.0	0.00	0.00	-348.0	KOP(Osprey 10 #1H)
7	8860.8	26.46	0.00	8835.2	-315.0	-323.0	12.00	0.00	-298.1	FTP(Osprey 10 #1H)
8	9390.3	90.00	359.58	9099.9	112.5	-325.2	12.00	-0.47	128.9	
9	16680.0	90.00	359.58	9100.0	7402.0	-379.0	0.00	0.00	7411.7	PBHL(Osprey 10 #1H)

WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

-365.0

8622.5





KB: 3358'

GL: 3333'



OSPREY 10 #1H LEA County, New Mexico Proposed Wellbore

413' FSL 1118' FWL Section 10 T-25-S, R-34-E

API: 30-025-****

If production Bradenhead is performed, TOC will be at surface
TOC @ 4,679', if performed conventionally.

Bit Size: 7-7/8''=Bit Size: 6-3/4''

Bit Size: 9-7/8" 8-5/8", 32.#, J-55, BTC-SC @ 0' - 5,179' MD @ 0' - 5,161' TVD

6", 24.5#, P110-EC, VAM Sprint-TC

@ 0' - 8,540' MD

@ 0' - 8,523' TVD

5-1/2", 20.#, P110-EC, VAM Sprint SF

@ 8,540' - 16,680' MD

@ 8,523' - 9,100' TVD

KOP: 8,640' MD, 8,623' TVD EOC: 9,390' MD, 9,100' TVD Lateral: 16,680' MD, 9,100' TVD BH Location: 2539' FSL & 792' FWL

Sec. 3 T-25-S R-34-E



Permit Information:

Well Name: OSPREY 10 1H

Location: SHL: 413' FSL & 1118' FWL, Section 10, T-25-S, R-34-E, LEA Co., N.M.

BHL: 2539' FSL & 792' FWL, Section 3, T-25-S, R-34-E, LEA Co., N.M.

Casing Program:

Hole	Interv	al MD	Interva	l TVD	Csg			
Size	From (ft)	To (ft)	From (ft)	To (ft)	OD	Weight	Grade	Conn
13"	0	985	0	985	10-3/4"	40.5#	J-55	STC
9-7/8"	0	5,179	0	5,161	8-5/8"	32#	J-55	BTC-SC
7-7/8"	0	8,540	0	8,523	6"	24.5#	P110-EC	VAM Sprint-TC
6-3/4"	8,540	16,680	8,523	9,100	5-1/2"	20#	P110-EC	VAM Sprint SF

^{**}For highlighted rows above, variance is requested to run entire string of either or casing string above due to availablility.

Cement Program:

Depth	No.	Wt.	Yld	Slurry Description
MD	Sacks	ppg	Ft3/sk	, ,
985'	220	13.5	1.73	Class C/H + additives (TOC @ Surface)
903	100	14.8	1.34	Class C/H + additives
5,180'	430	12.7	1.11	Tail: Class C/H + additives + expansion additives (TOC @ 2000')
3,160	250	14.8	1.5	Lead: Class C/H + additives (TOC @ 4,129')
	560	10.5	3.21	Lead: Class C/H + additives (TOC @ 4,679')
16,680'	960	13.2	1.52	Tail: Class C/H + additives (TOC @ 8,640')

Mud Program:

Section	Depth	Type	Weight (ppg)	Viscosity	Water Loss
Surface	0 – 990'	Fresh - Gel	8.6-9.2	28-34	N/c
Intermediate	990' – 5,160'	Brine	9.0-10.5	28-34	N/c
Production	5,160' – 16,680' Lateral	Oil Base	8.8-9.5	58-68	N/c - 6



TUBING REQUIREMENTS:

EOG respectively requests an exception to the following NMOCD rule:

19.15.16.10 Casing AND TUBING REQUIREMENTS:
 J (3): "The operator shall set tubing as near the bottom as practical and tubing perforations shall not be more than 250 feet above top of pay zone."

With horizontal flowing and gas lifted wells an end of tubing depth placed at or slightly above KOP is a conservative way to ensure the tubing stays clean from debris, plugging, and allows for fewer well interventions post offset completion. The deeper the tubulars are run into the curve, the higher the probability is that the tubing will become stuck in sand and or well debris as the well produces over time. An additional consideration for EOT placement during artificial lift installations is avoiding the high dog leg severity and inclinations found in the curve section of the wellbore to help improve reliability and performance. Dog leg severity and inclinations tend not to hamper gas lifted or flowing wells, but they do effect other forms of artificial lift like rod pump or ESP (electric submersible pump). Keeping the EOT above KOP is an industry best practice for those respective forms of artificial lift.



Hydrogen Sulfide Plan Summary

- A. All personnel shall receive proper H2S training in accordance with Onshore Order III.C.3.a.
- B. Briefing Area: two perpendicular areas will be designated by signs and readily accessible.
- C. Required Emergency Equipment:
 - Well control equipment
 - a. Flare line 150' from wellhead to be ignited by flare gun.
 - b. Choke manifold with a remotely operated choke.
 - c. Mud/gas separator
 - Protective equipment for essential personnel.

Breathing apparatus:

- a. Rescue Packs (SCBA) 1 unit shall be placed at each breathing area, 2 shall be stored in the safety trailer.
- b. Work/Escape packs —4 packs shall be stored on the rig floor with sufficient air hose not to restrict work activity.
- c. Emergency Escape Packs —4 packs shall be stored in the doghouse for emergency evacuation.

Auxiliary Rescue Equipment:

- a. Stretcher
- b. Two OSHA full body harness
- c. 100 ft 5/8 inch OSHA approved rope
- d. 1-20# class ABC fire extinguisher
- H2S detection and monitoring equipment:

The stationary detector with three sensors will be placed in the upper dog house if equipped, set to visually alarm @ 10 ppm and audible @ 14 ppm. Calibrate a minimum of every 30 days or as needed. The sensors will be placed in the following places: Rig floor / Bell nipple / End of flow line or where well bore fluid is being discharged.

(Gas sample tubes will be stored in the safety trailer)

- Visual warning systems.
 - a. One color code condition sign will be placed at the entrance to the site reflecting the possible conditions at the site.
- b. A colored condition flag will be on display, reflecting the current condition at the site at the time.
 - c. Two wind socks will be placed in strategic locations, visible from all angles.



■ Mud program:

The mud program has been designed to minimize the volume of H2S circulated to surface. The operator will have the necessary mud products to minimize hazards while drilling in H2S bearing zones.

■ Metallurgy:

All drill strings, casings, tubing, wellhead, blowout preventer, drilling spool, kill lines, choke manifold and lines, and valves shall be suitable for H2S service.

■ Communication:

Communication will be via cell phones and land lines where available.



OSPREY 10 #1H Emergency Assistance Telephone List

PUBLIC SAFETY:	Ziner geney 118818 univ		911 or
Lea County Sheriff's	Department		(575) 396-3611
	Rod Coffman		
Fire Department:			
	Carlsbad		(575) 885-3125
	Artesia		(575) 746-5050
Hospitals:			
	Carlsbad		(575) 887-4121
	Artesia		(575) 748-3333
	Hobbs		(575) 392-1979
Dept. of Public Safet	y/Carlsbad		(575) 748-9718
Highway Department			(575) 885-3281
New Mexico Oil Con	servation		(575) 476-3440
NMOCD Inspection	Group - South		(575) 626-0830
U.S. Dept. of Labor			(575) 887-1174
EOG Resources, Inc			
EOG / Midland		Office	(432) 686-3600
Company Drilling C	Consultants:		
David Dominque		Cell	(985) 518-5839
Mike Vann		Cell	(817) 980-5507
Drilling Engineer			
Stephen Davis		Cell	(432) 235-9789
Matt Day		Cell	(432) 296-4456
Drilling Manager			
Branden Keener		Office	(432) 686-3752
		Cell	(210) 294-3729
Drilling Superintene	dent		
Steve Kelly		Office	(432) 686-3706
		Cell	(210) 416-7894
H&P Drilling			
H&P Drilling		Office	(432) 563-5757
H&P 651 Drilling Ri	9	Rig	(903) 509-7131
		_	
Tool Pusher:			
Johnathan Craig		Cell	(817) 760-6374
Brad Garrett			
Safety:			
Brian Chandler (HSE	Manager)	Office	(432) 686-3695
Zimii Cimilatoi (HDL		Cell	(817) 239-0251
		Cell	(017) 237-0231



GEOLOGIC NAME OF SURFACE FORMATION:

Permian

ESTIMATED TOPS OF IMPORTANT GEOLOGICAL MARKERS:

Rustler	875'
Tamarisk Anhydrite	960'
Top of Salt	1,255'
Base of Salt	5,061'
Lamar	5,323'
Bell Canyon	5,346'
Cherry Canyon	6,301'
Brushy Canyon	7,887'
Bone Spring Lime	9,298'
Leonard (Avalon) Shale	9,335'
1st Bone Spring Sand	10,317'
2nd Bone Spring Shale	10,533'
2nd Bone Spring Sand	10,836'
3rd Bone Spring Carb	11,372'
3rd Bone Spring Sand	11,904'
TD	9,100'

ESTIMATED DEPTHS OF ANTICIPATED FRESH WATER, OIL OR GAS:

Upper Permian Sands	0-400' Fresh Water
Lamar	5,323' Oil
Cherry Canyon	6,301' Oil
Brushy Canyon	7,887' Oil
Bone Spring Lime	9,298' Oil
Leonard (Avalon) Shale	9,335' Oil
1st Bone Spring Sand	10,317' Oil
2nd Bone Spring Shale	10,533' Oil
2nd Bone Spring Sand	10,836' Oil

State of New Mexico Energy, Minerals and Natural Resources Department

Submit Electronically Via E-permitting

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505

NATURAL GAS MANAGEMENT PLAN

This Natural Gas Management Plan must be submitted with each Application for Permit to Drill (APD) for a new or recompleted well.

Section 1 – Plan Description Effective May 25, 2021

I. Operator:EOG	Resources, Inc	OGRII): 7377		Da	ate: 04/2	4/2025	;
II. Type: ⊠ Origina Other.	l □ Amendm	ent due to □ 19.15.	.27.9.D(6)(a) NI	MAC □ 19.15.27.	9.D(6)(l	b) NMAC		
If Other, please describe	:							
III. Well(s): Provide the be recompleted from a s					wells pi	roposed to	be dri	lled or proposed to
Well Name	API	ULSTR	Footages	Anticipated Oil BBL/D		cipated MCF/D		Anticipated roduced Water BBL/D
OSPREY 10 1H		M-10-25S-34E	413' FSL & 1118' FWL	+/- 1000	+/- 35	500	+/- 30	000
V. Anticipated Schedu or proposed to be recom Well Name	lle: Provide th	e following inform	ation for each ne	ew or recompleted	l well or nt.	. , , ,	lls prop Flow	posed to be drilled First Production Date
OSPREY 10 1H		05/26/25	06/26/25	09/1/25		10/1/25		10/15/25
VI. Separation Equipm VII. Operational Pract Subsection A through F VIII. Best Management during active and planne	tices: Attacof 19.15.27.8	ch a complete descr NMAC. ⊠ Attach a comple	ription of the ac	tions Operator wi	ll take t	o comply	with the	he requirements of

Section 2 – Enhanced Plan EFFECTIVE APRIL 1, 2022

Beginning April 1, 2022, an operator that is not in compliance with its statewide natural gas capture requirement for the applicable reporting area must complete this section.

🗵 Operator certifies that it is not required to complete this section because Operator is in compliance with its statewide natural gas capture requirement for the applicable reporting area.

IX. Anticipated Natural Gas Production:

Well	API	Anticipated Average Natural Gas Rate MCF/D	Anticipated Volume of Natural Gas for the First Year MCF

X. Natural Gas Gathering System (NGGS):

Operator	System	ULSTR of Tie-in	Anticipated Gathering	Available Maximum Daily Capacity
			Start Date	of System Segment Tie-in

XI. Map. Attach an accurate and legible map depicting the location of the well(s), the anticipated pipeline route(s) connecting the
production operations to the existing or planned interconnect of the natural gas gathering system(s), and the maximum daily capacity of
the segment or portion of the natural gas gathering system(s) to which the well(s) will be connected.

XII. Line Capacity. The natural	gas gathering system [□ will □ will	not have capacity t	o gather 1	100% of the	e anticipated	natural ga
production volume from the well	prior to the date of first	production.					

VIII I in a Description On contain Distance Distance and continued that its conjection could be a contained to the conjection of the conje	
XIII. Line Pressure. Operator \square does \square does not anticipate that its existing well(s) connected to	
natural gas gathering system(s) described above will continue to meet anticipated increases in line	e pressure caused by the new well(s)

			_						
	Attach (Onerator	s nlan ta	n manage	production	in response	to the incre	ased line pre	eriire

XIV. Confidentiality: Operator asserts confidentiality pursuant to Section 71-2-8 NMSA 1978 for the information providentiality.	ed in
Section 2 as provided in Paragraph (2) of Subsection D of 19.15.27.9 NMAC, and attaches a full description of the specific information of the	ation
for which confidentiality is asserted and the basis for such assertion.	

Section 3 - Certifications <u>Effective May 25, 2021</u>

Operator certifies that, after reasonable inquiry and based on the available information at the time of submittal: 🗵 Operator will be able to connect the well(s) to a natural gas gathering system in the general area with sufficient capacity to transport one hundred percent of the anticipated volume of natural gas produced from the well(s) commencing on the date of first production, taking into account the current and anticipated volumes of produced natural gas from other wells connected to the pipeline gathering system; or ☐ Operator will not be able to connect to a natural gas gathering system in the general area with sufficient capacity to transport one hundred percent of the anticipated volume of natural gas produced from the well(s) commencing on the date of first production, taking into account the current and anticipated volumes of produced natural gas from other wells connected to the pipeline gathering system. If Operator checks this box, Operator will select one of the following: Well Shut-In. ☐ Operator will shut-in and not produce the well until it submits the certification required by Paragraph (4) of Subsection D of 19.15.27.9 NMAC; or Venting and Flaring Plan.

Operator has attached a venting and flaring plan that evaluates and selects one or more of the potential alternative beneficial uses for the natural gas until a natural gas gathering system is available, including: power generation on lease; (a) **(b)** power generation for grid; (c) compression on lease; (d) liquids removal on lease;

- reinjection for underground storage; (e)
- **(f)** reinjection for temporary storage;
- **(g)** reinjection for enhanced oil recovery;
- (h) fuel cell production; and
- (i) other alternative beneficial uses approved by the division.

Section 4 - Notices

- 1. If, at any time after Operator submits this Natural Gas Management Plan and before the well is spud:
- (a) Operator becomes aware that the natural gas gathering system it planned to connect the well(s) to has become unavailable or will not have capacity to transport one hundred percent of the production from the well(s), no later than 20 days after becoming aware of such information, Operator shall submit for OCD's approval a new or revised venting and flaring plan containing the information specified in Paragraph (5) of Subsection D of 19.15.27.9 NMAC; or
- Operator becomes aware that it has, cumulatively for the year, become out of compliance with its baseline natural gas capture rate or natural gas capture requirement, no later than 20 days after becoming aware of such information, Operator shall submit for OCD's approval a new or revised Natural Gas Management Plan for each well it plans to spud during the next 90 days containing the information specified in Paragraph (2) of Subsection D of 19.15.27.9 NMAC, and shall file an update for each Natural Gas Management Plan until Operator is back in compliance with its baseline natural gas capture rate or natural gas capture requirement.
- 2. OCD may deny or conditionally approve an APD if Operator does not make a certification, fails to submit an adequate venting and flaring plan which includes alternative beneficial uses for the anticipated volume of natural gas produced, or if OCD determines that Operator will not have adequate natural gas takeaway capacity at the time a well will be spud.

I certify that, after reasonable inquiry, the statements in and attached to this Natural Gas Management Plan are true and correct to the best of my knowledge and acknowledge that a false statement may be subject to civil and criminal penalties under the Oil and Gas Act.

Signature: Kayla McConnell
Printed Name: KAYLA MCCONNELL
Title: Regulatory Specialist
E-mail Address: KAYLA_MCCONNELL@EOGRESOURCES.COM
Date: 04/24/2025
Phone: (432) 265-6804
OIL CONSERVATION DIVISION
(Only applicable when submitted as a standalone form)
Approved By:
Title:
Approval Date:
Conditions of Approval:

Natural Gas Management Plan Items VI-VIII

VI. Separation Equipment: Attach a complete description of how Operator will size separation equipment to optimize gas capture.

- Separation equipment will be sized to provide adequate separation for anticipated rates.
- Adequate separation relates to retention time for Liquid Liquid separation and velocity for Gas-Liquid separation.
- Collection systems are appropriately sized to handle facility production rates on all (3) phases.
- Ancillary equipment and metering is selected to be serviced without flow interruptions or the need to release
 gas from the well.

VII. Operational Practices: Attach a complete description of the actions Operator will take to comply with the requirements of Subsection A through F 19.15.27.8 NMAC.

Drilling Operations

- All flare stacks will be properly sized. The flare stacks will be located at a minimum 100' from the nearest surface hole location on the pad.
- All natural gas produced during drilling operations will be flared, unless there is an equipment malfunction
 and/or to avoid risk of an immediate and substantial adverse impact on safety and the environment, at which
 point the gas will be vented.

Completions/Recompletions Operations

- New wells will not be flowed back until they are connected to a properly sized gathering system.
- The facility will be built/sized for maximum anticipated flowrates and pressures to minimize waste.
- For flowback operations, multiple stages of separation will be used as well as excess VRU and blowers to make sure waste is minimized off the storage tanks and facility.
- During initial flowback, the well stream will be routed to separation equipment.
- At an existing facility, when necessary, post separation natural gas will be flared until it meets pipeline specifications, at which point it will be turned into a collection system.
- At a new facility, post separation natural gas will be vented until storage tanks can safely function, at which
 point it will be flared until it meets pipeline spec.

Production Operations

- Weekly AVOs will be performed on all facilities.
- All flares will be equipped with auto-ignition systems and continuous pilot operations.
- After a well is stabilized from liquid unloading, the well will be turned back into the collection system.
- All plunger lift systems will be optimized to limit the amount of waste.
- All tanks will have automatic gauging equipment installed.
- Leaking thief hatches found during AVOs will be cleaned and properly re-sealed.

Performance Standards

- Production equipment will be designed to handle maximum anticipated rates and pressure.
- All flared gas will be combusted in a flare stack that is properly sized and designed to ensure proper combustion.
- Weekly AVOs will be performed on all wells and facilities that produce more than 60 Mcfd.

Measurement & Estimation

- All volume that is flared and vented that is not measured will be estimated.
- All measurement equipment for flared volumes will conform to API 14.10.
- No meter bypasses with be installed.

• When metering is not practical due to low pressure/low rate, the vented or flared volume will be estimated.

VIII. Best Management Practices: Attach a complete description of Operator's best management practices to minimize venting during active and planned maintenance.

- During downhole well maintenance, EOG will use best management practices to vent as minimally as possible.
- Prior to the commencement of any maintenance, the tank or vessel will be isolated from the rest of the facilities.
- All valves upstream of the equipment will be closed and isolated.
- After equipment has been isolated, the equipment will be blown down to as low a pressure as possible into the collection system.
- If the equipment being maintained cannot be relieved into the collection system, it shall be released to a tank where the vapor can either be captured or combusted if possible.
- After downhole well maintenance, natural gas will be flared until it reaches pipeline specification.