Form C-101

August 1, 2011 Permit 299555

<u>District I</u> 1625 N. French Dr., Hobbs, NM 88240 Phone:(575) 393-6161 Fax:(575) 393-0720

District II

811 S. First St., Artesia, NM 88210 Phone: (575) 748-1283 Fax: (575) 748-9720 District III
1000 Rio Brazos Rd., Aztec, NM 87410

Phone:(505) 334-6178 Fax:(505) 334-6170

1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462

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

		APPLICATI	ON FOR PERMI	T TO DRILL, RE-E	ENTER, DEEPE	N, PLUGB	ACK, OR	ADD A Z	ONE				
	me and Address dwood Operating Ll	_C		•	•	•	•	2. 0	OGRID Number				
	Box 1370 esia, NM 882111370)						3. A	API Number 30-0	15-4889	4		
4. Property Co	de 9360	5.	Property Name BRAINARD 1	1				6. V	Vell No. 004H	I			
				7 Surfa	ace Location								
UL - Lot D	Section 12	Township 18S	Range 26E	Lot Idn D	Feet From 505	N/S Line	Feet F	rom 575	E/W Lin	e W	County Eddy		
				8. Proposed Bo	ottom Hole Location	on							
UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line		t From	E/W Line	W	County		
D	11	18S	26E	D	990		N	1		Eddy			
DED LAKE:C	GLORIETA-YESO			9. Pool	Information				51120	n			
RED LAKE,	SLONIETA-TESO			A -1-1611 1	M-11 I				31120	J			
11. Work Type		12. Well Type		13. Cable/Rotary	Well Information	Type	1	5 Ground I	Level Flevati	on			
New Well OIL Private 3283								OII					
16. Multiple N		17. Proposed 869	•	18. Formation Yeso	19. Contra	actor	2		d Date 11/1/2021				
Depth to Grou	nd water	00:	99	Distance from nearest	fresh water well		D		11/1/2021 tance to nearest surface water				
⊠ We will be	using a closed-loop	system in lieu o	of lined pits										
Type	Hole Size	Casing Siz	ze C	21. Proposed Casir asing Weight/ft	ng and Cement Pr Setting D		Sac	ks of Ceme	nt		Estimated TOC		
Surf	12.25	9.625	26 0	36	1230		Oac	450	iit.		0		
Prod	8.75	7		26	3200			1580			0		
Prod	8.75	5.5		17	8699	ı.		200			0		
Padwood Or	porating proposed to	drill 12 1/4" bold		asing/Cement Progr csg/cmt. Drill 8 3/4"			salomt nut v	voll on pro	duction				
Reawood Op	beraung proposed to	Julii 12 1/4 Hole	e to 1230 , full 9 5/6				sg/cmi, put v	veii on pro	duction.				
	Туре		Wo	22. Proposed Blow rking Pressure	out Prevention Pr		Pressure			Man	ufacturer		
	Double Ram		VVC	3000			000			iviari	uiacturei		
		1						I					
knowledge a	and belief. tify I have complied	Ü	·	ete to the best of my	С		OIL CONS	SERVATIO	ON DIVISION				
Signature:													
Printed Name:		y filed by Jerry S	herrell		Approved By:		mmons						
Title:	Regulatory	-			Title:		um Specialis	st - A	1				
Email Address Date:	: jerrys@med 8/13/2021	com.	Phone: 575-748	1200	Approved Date: Conditions of A	9/1/202			Expiration [Date: 9/1	/2023		
Zato.	G. TOLEVET		1 11016. 010-140		Conditions of P	-provai Atta							

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1220 S. St. Francis Dr., Santa Fe, NM 87505 Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico

Energy, Minerals & Natural Resources Department OIL CONSERVATION DIVISION 1220 South St. Francis Dr.

Santa Fe, NM 87505

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

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

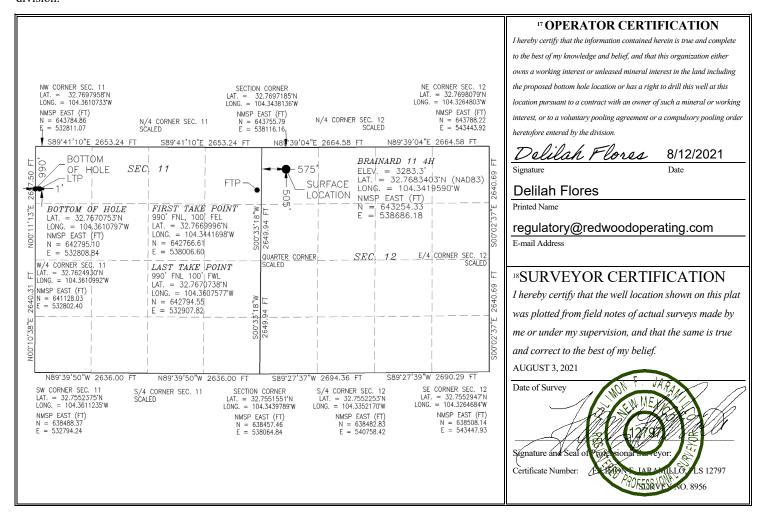
	WL	LL LOCATION AND	ACKEAGE DEDICATION LAT					
¹ API Numbe	er	² Pool Code						
		51120	Red Lake; Glorieta-Yeso					
⁴ Property Code		5 P1	roperty Name	⁶ Well Number				
329360		BRA	AINARD 11 4H					
⁷ OGRID No.		8 O _l	perator Name	⁹ Elevation				
330211		REDWOOD	OPERATING, LLC	3283.3				

¹⁰ Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	n Feet from the North/South		Feet from the	East/West line	County		
D	12	18 S	26 E		505	NORTH	WEST	EDDY			
" Bottom Hole Location If Different From Surface											
UL or lot no.	Section	Township	hip Range Lot Idn Feet from the North/South line Feet from the East/West line County								
D	11	18 S	26 E		990	NORTH	1	WEST	EDDY		

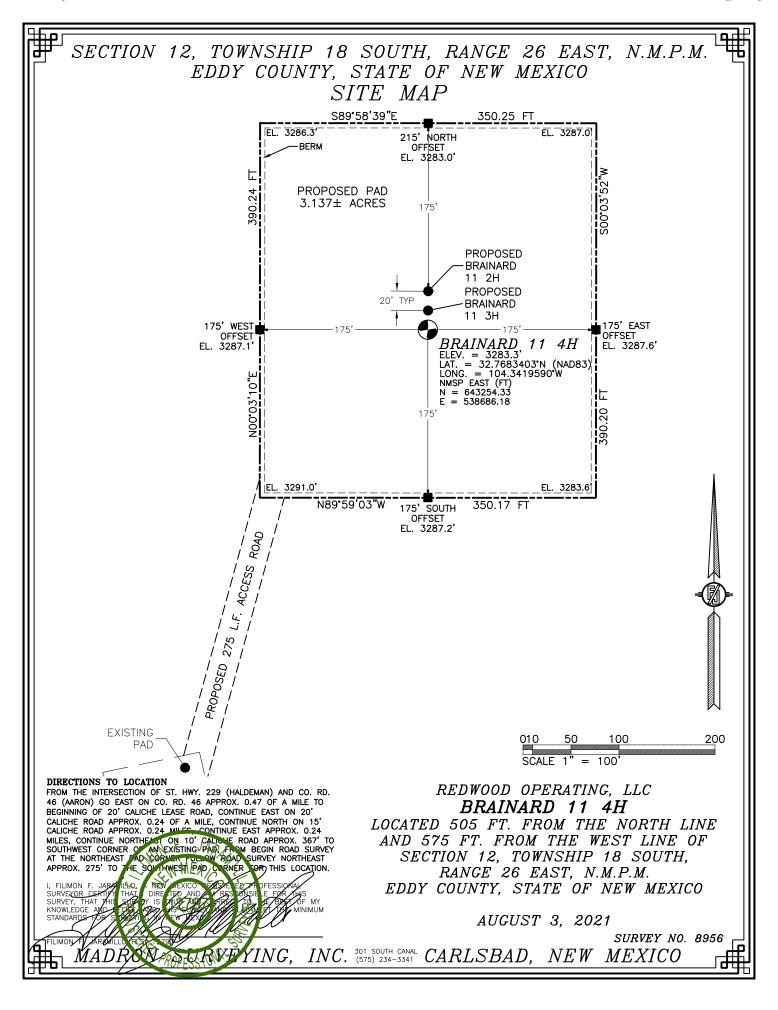
12 Dedicated Acres 13 Joint or Infill 14 Consolidation Code 15 Order No.

No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.

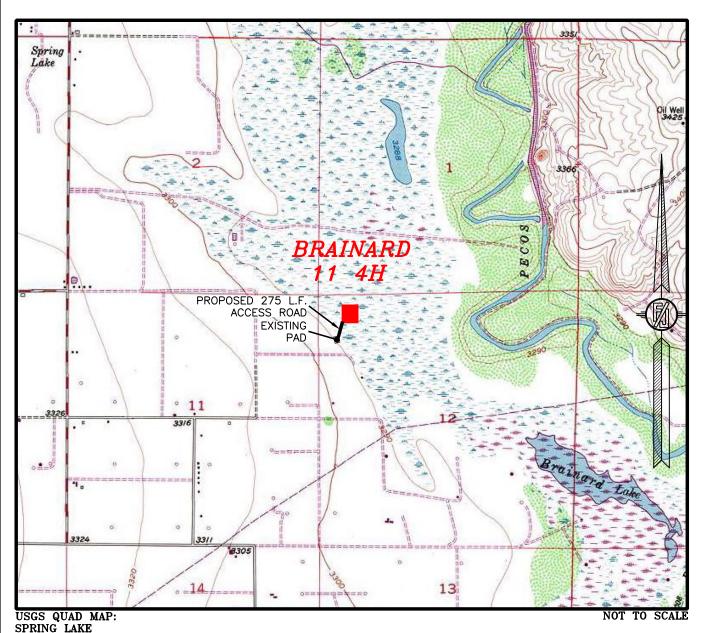


Inten	t	As Dril	led											
API#														
	rator Nar	me: O OPERA	ATING, I	LC		Property Name: BRAINARD 11								Well Number 4H
Kick C	Off Point	(KOP)												
UL	Section	Township	Range	Lot	Feet		From N	1/S	Feet		Fron	n E/W	County	
Latitu	ıde				Longitu	ıde	<u> </u>						NAD	
													<u> </u>	
First 7	Take Poin	T	Dongo	Lat	Feet		From N	ı/c	Feet		Fran	n E/W	County	
Α	11	Township 18S	Range 26E	Lot	990		NOR	•	100			•	EDDY	
Latitu 32.7	^{1de} 766999	6			Longitu 104.3							NAD 83		
Lost T	Taka Dain	+ (LTD)												
UL	ake Poin	Township	Range	Lot	Feet	Fro	om N/S	Feet		From	F/W	Count	-v	
D	12	18S	26E	200	990	NC	RTH	100		WES		EDD		
32.7	^{1de} 767073	8			Longitu 104.3		7577					NAD 83		
					1									
			11.6 .1		. 16			. г		7				
Is this	s well the	defining v	vell for th	e Hori:	zontal S _l	pacin	g Unit?	' L						
Is this	s well an i	infill well?]									
	ll is yes pl ng Unit.	lease prov	ide API if	availak	ole, Ope	rator	Name	and w	vell n	umbe	r for I	Definir	ng well fo	r Horizontal
API#														
Ope	rator Nar	me:				Pro	perty N	lame	:					Well Number

KZ 06/29/2018



SECTION 12, TOWNSHIP 18 SOUTH, RANGE 26 EAST, N.M.P.M. EDDY COUNTY, STATE OF NEW MEXICO LOCATION VERIFICATION MAP



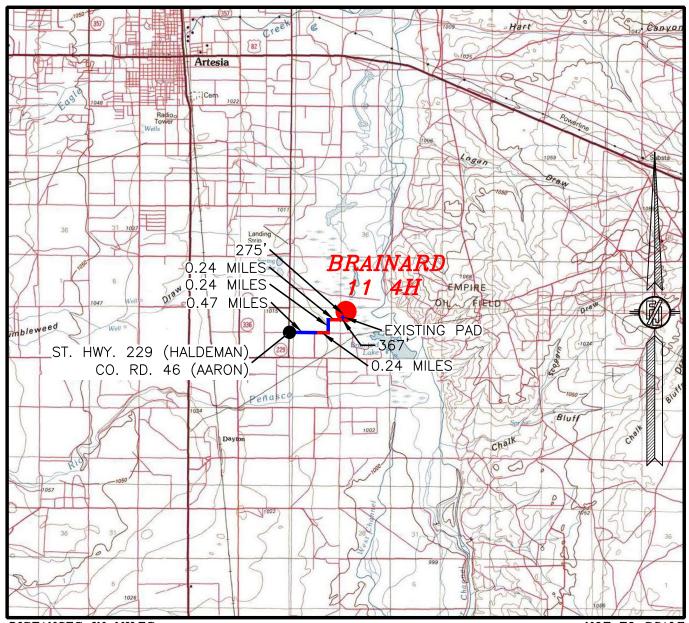
REDWOOD OPERATING, LLC BRAINARD 11 4H

LOCATED 505 FT. FROM THE NORTH LINE AND 575 FT. FROM THE WEST LINE OF SECTION 12, TOWNSHIP 18 SOUTH, RANGE 26 EAST, N.M.P.M. EDDY COUNTY, STATE OF NEW MEXICO

AUGUST 3, 2021

SURVEY NO. 8956

SECTION 12, TOWNSHIP 18 SOUTH, RANGE 26 EAST, N.M.P.M. EDDY COUNTY, STATE OF NEW MEXICO VICINITY MAP



DISTANCES IN MILES

NOT TO SCALE

DIRECTIONS TO LOCATION

FROM THE INTERSECTION OF ST. HWY. 229 (HALDEMAN) AND CO. RD. 46 (AARON) GO EAST ON CO. RD. 46 APPROX. 0.47 OF A MILE TO BEGINNING OF 20' CALICHE LEASE ROAD, CONTINUE EAST ON 20' CALICHE ROAD APPROX. 0.24 OF A MILE, CONTINUE NORTH ON 15' CALICHE ROAD APPROX. 0.24 MILES, CONTINUE EAST APPROX. 0.24 MILES, CONTINUE NORTHEAST ON 10' CALICHE ROAD APPROX. 367' TO SOUTHWEST CORNER OF AN EXISTING PAD, FROM BEGIN ROAD SURVEY AT THE NORTHEAST PAD CORNER FOLLOW ROAD SURVEY NORTHEAST APPROX. 275' TO THE SOUTHWEST PAD CORNER FOR THIS LOCATION.

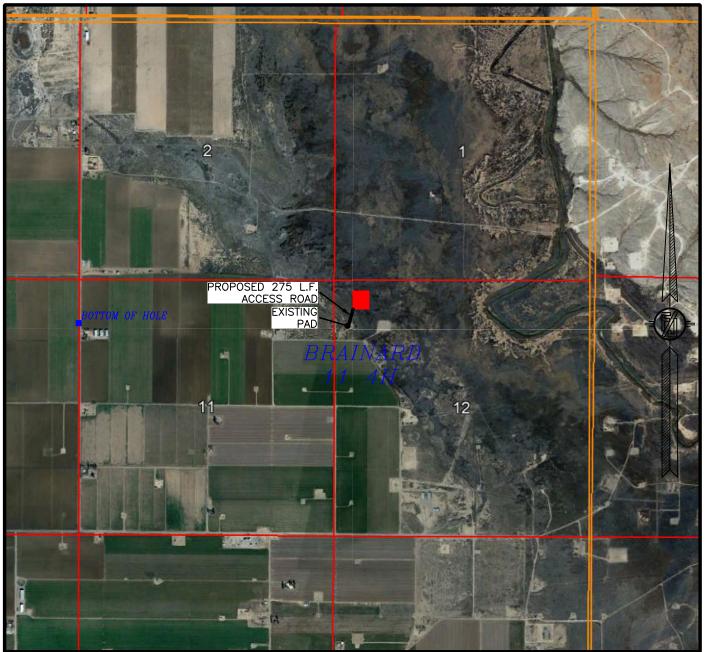
REDWOOD OPERATING, LLC
BRAINARD 11 4H

LOCATED 505 FT. FROM THE NORTH LINE
AND 575 FT. FROM THE WEST LINE OF
SECTION 12, TOWNSHIP 18 SOUTH,
RANGE 26 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO

AUGUST 3, 2021

SURVEY NO. 8956

SECTION 12, TOWNSHIP 18 SOUTH, RANGE 26 EAST, N.M.P.M. EDDY COUNTY, STATE OF NEW MEXICO AERIAL PHOTO



NOT TO SCALE AERIAL PHOTO: GOOGLE EARTH DEC. 2019

REDWOOD OPERATING, LLC BRAINARD 11 4H

LOCATED 505 FT. FROM THE NORTH LINE AND 575 FT. FROM THE WEST LINE OF SECTION 12, TOWNSHIP 18 SOUTH, RANGE 26 EAST, N.M.P.M. EDDY COUNTY, STATE OF NEW MEXICO

AUGUST 3, 2021

SURVEY NO. 8956

SECTION 12, TOWNSHIP 18 SOUTH, RANGE 26 EAST, N.M.P.M. EDDY COUNTY, STATE OF NEW MEXICO AERIAL ACCESS ROUTE MAP



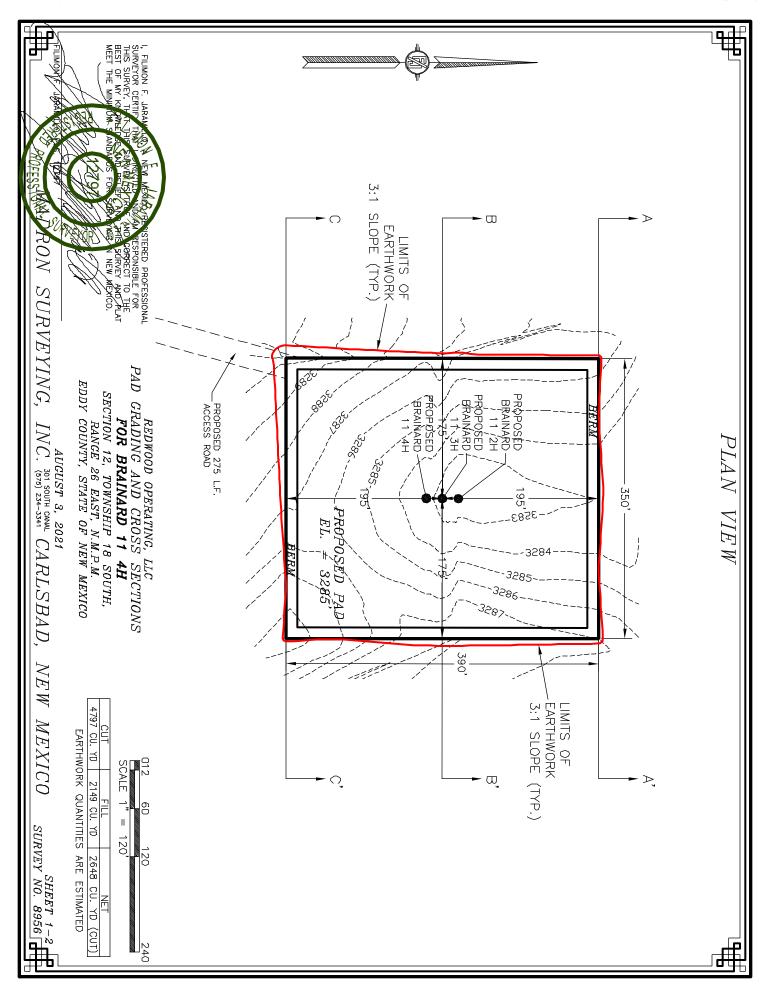
NOT TO SCALE AERIAL PHOTO: GOOGLE EARTH DEC. 2019

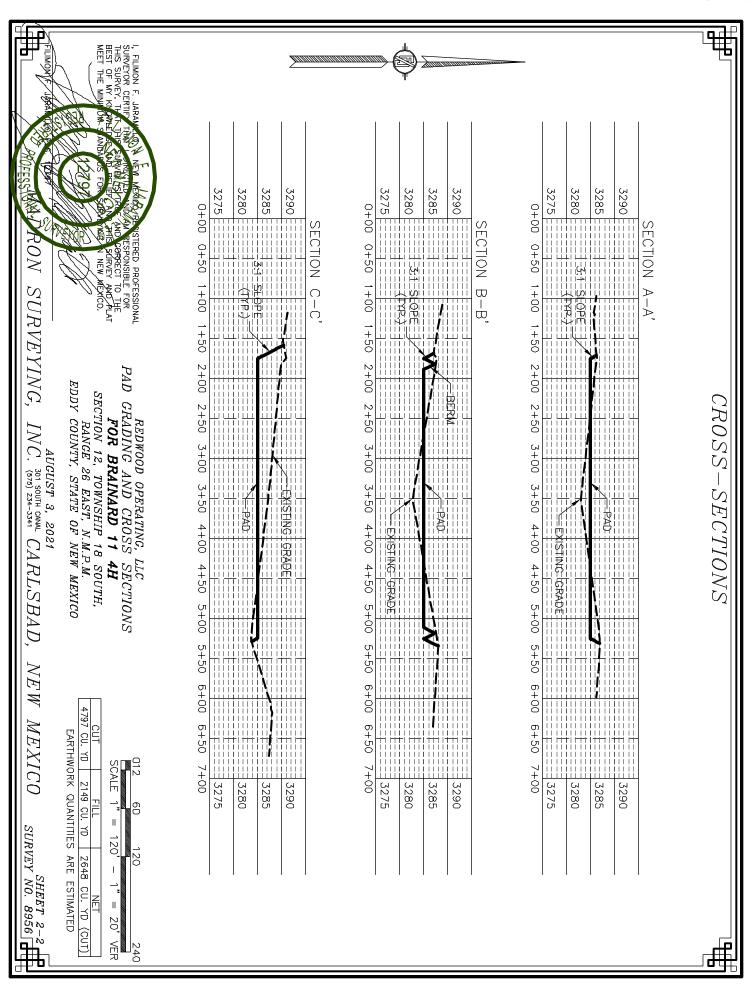
REDWOOD OPERATING, LLC BRAINARD 11 4H

LOCATED 505 FT. FROM THE NORTH LINE AND 575 FT. FROM THE WEST LINE OF SECTION 12, TOWNSHIP 18 SOUTH, RANGE 26 EAST, N.M.P.M. EDDY COUNTY, STATE OF NEW MEXICO

AUGUST 3, 2021

SURVEY NO. 8956



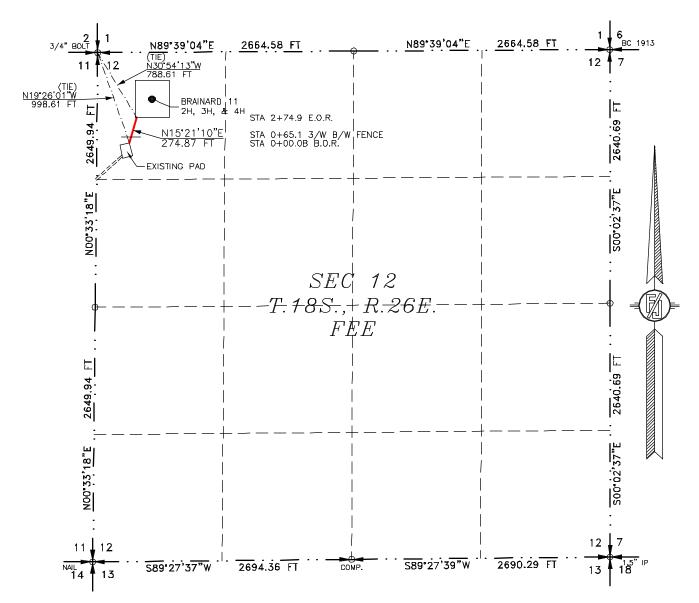


ACCESS ROAD PLAT

ACCESS ROAD FOR BRAINARD 11 2H, 3H, & 4H

REDWOOD OPERATING, LLC

CENTERLINE SURVEY OF AN ACCESS ROAD CROSSING SECTION 12, TOWNSHIP 18 SOUTH, RANGE 26 EAST, N.M.P.M. EDDY COUNTY, STATE OF NEW MEXICO AUGUST 3, 2021



SEE NEXT SHEET (2-2) FOR DESCRIPTION



GENERAL NOTES

- 1.) THE INTENT OF THIS ROUTE SURVEY IS TO ACQUIRE AN EASEMENT.
- 2.) BASIS OF BEARING AND DISTANCE IS NMSP EAST (NAD83) MODIFIED TO SURFACE COORDINATES. NAD 83 (FEET) AND NAVD 88 (FEET) COORDINATE SYSTEMS USED IN THE SURVEY.

SHEET: 1-2

MADRON SURVEYING, INC. (575)

SURVEYOR CERTIFICATE

I, FILIMON F. JARAMILLO, A NEW MEXICO PROFESSIONAL SURVEYOR NO. 12797, HEREBY CERTIFY THAT I HAVE CONDUCTED AND AM RESPONSIBLE FOR THIS SURVEY, THAT THIS SURVEY IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF, AND THAT THIS SURVEY AND PLAT MEET THE MINIMUM STANDARDS FOR LAND SURVEYING IN THE STATE, OF NEW MEXICO.

IN MENERS WEEDER THE CERTIFICATE IS EXECUTED AT CARLSBAD,

NEW MEXICO, LIES NEW AND OF TUCOST 2021

MADRON SURVEYING, INC. 301 SOUTH CANAL CARLSBAD, NEW MEXICO 88220 Phone (575) 234-3341

NEW MEXICO

SURVEY NO. 8956

ACCESS ROAD PLAT

ACCESS ROAD FOR BRAINARD 11 2H, 3H, & 4H

REDWOOD OPERATING, LLC CENTERLINE SURVEY OF AN ACCESS ROAD CROSSING TION 12, TOWNSHIP 18 SOUTH, RANGE 26 EAST, N.M.P.

SECTION 12, TOWNSHIP 18 SOUTH, RANGE 26 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO
AUGUST 3, 2021

DESCRIPTION

A STRIP OF LAND 30 FEET WIDE CROSSING FEE LAND IN SECTION 12, TOWNSHIP 18 SOUTH, RANGE 26 EAST, N.M.P.M., EDDY COUNTY, STATE OF NEW MEXICO AND BEING 15 FEET EACH SIDE OF THE FOLLOWING DESCRIBED CENTERLINE SURVEY:

BEGINNING AT A POINT WITHIN THE NW/4 NW/4 OF SAID SECTION 12, TOWNSHIP 18 SOUTH, RANGE 26 EAST, N.M.P.M., WHENCE THE NORTHWEST CORNER OF SAID SECTION 12, TOWNSHIP 18 SOUTH, RANGE 26 EAST, N.M.P.M. BEARS N19 $^{\circ}$ 26 $^{\circ}$ 01 $^{\circ}$ W, A DISTANCE OF 998.61 FEET;

THENCE N15'21'10"E A DISTANCE OF 274.87 FEET THE TERMINUS OF THIS CENTERLINE SURVEY, WHENCE THE NORTHWEST CORNER OF SAID SECTION 12, TOWNSHIP 18 SOUTH, RANGE 26 EAST, N.M.P.M. BEARS N30'54'13"W, A DISTANCE OF 788.61 FEET;

SAID STRIP OF LAND BEING 274.87 FEET OR 16.66 RODS IN LENGTH, CONTAINING 0.189 ACRES MORE OR LESS AND BEING ALLOCATED BY FORTIES AS FOLLOWS:

NW/4 NW/4 274.87 L.F. 16.66 RODS 0.189 ACRES

SURVEYOR CERTIFICATE

GENERAL NOTES

- 1.) THE INTENT OF THIS ROUTE SURVEY IS TO ACQUIRE AN EASEMENT.
- 2.) BASIS OF BEARING AND DISTANCE IS NMSP EAST (NAD83) MODIFIED TO SURFACE COORDINATES. NAD 83 (FEET) AND NAVD 88 (FEET) COORDINATE SYSTEMS USED IN THE SURVEY.

SHEET: 2-2

MADRON SURVEYING $(INC^{\nu}_{.})^{301}$ Signal Sign

I, FILIMON F. JARAMILLO, A NEW MEXICO PROFESSIONAL SURVEYOR NO. 12797, HEREBY CERTIFY THAT I HAVE CONDUCTED AND AM RESPONSIBLE FOR THIS SURVEY, THAT THIS SURVEY IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF, AND THAT THIS SURVEY AND PLAT MEET THE MINIMUM STANDARDS FOR LAND SURVEYING IN THE STATE OF NEW MEXICO.

IN TITLES WEEDE OF TAHIS CERTIFICATE IS EXECUTED AT CARLSBAD.

NEW MIXION THEN NOT LOAN OF TUCOST 2021

MADRON SURVEYING, INC. 301 SOUTH CANAL CARLSBAD, NEW MEXICO 88220 Phone (575) 234-3341

SURVEY NO. 8956

BAD, NEW MEXICO

Form APD Conditions

Permit 299555

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

PERMIT CONDITIONS OF APPROVAL

Operator Name and Address:	API Number:
Redwood Operating LLC [330211]	30-015-48894
PO Box 1370	Well:
Artesia, NM 882111370	BRAINARD 11 #004H

OCD Reviewer	Condition
ksimmons	Notify OCD 24 hours prior to casing & cement
ksimmons	Will require a File As Drilled C-102 and a Directional Survey with the C-104
ksimmons	The Operator is to notify NMOCD by sundry (Form C-103) within ten (10) days of the well being spud
	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
kpickford	Cement is required to circulate on both surface and intermediate1 strings of casing
	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

I. Operator: Redwood Operating LLC

State of New Mexico Energy, Minerals and Natural Resources Department

Submit Electronically Via E-permitting

Date: 08 / 12 / 2021

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

OGRID:

330211

l Amendment	due to \(\sigma\) 19.15.27.9	9.D(6)(a) NMA(C □ 19.15.27.9.D((6)(b) NM	IAC Othe	r.
:						
				wells prop	posed to be d	rilled or proposed to
API	ULSTR	Footages	Anticipated Oil BBL/D			Anticipated Produced Water BBL/D
	Sec. 12 T18S R26E	505 FNL 575 FWL	100	100		1,000
e: Provide the	e following informat	ion for each new nected to a centra	or recompleted wal delivery point. Completion	vell or set	of wells pro	
	11/1/2021	12/1/2021	1/1/2022		/1/2022	1/15/2022
ices: Attacof 19.15.27.8	ch a complete descr NMAC.	iption of the act	ions Operator wil	l take to o	comply with	the requirements of
	oint Name:	following information for each ringle well pad or connected to a connected result of the following information as single well pad or connected from a single well pad or connecte	following information for each new or recompleted ngle well pad or connected to a central delivery possible. API ULSTR Footages Sec. 12 T18S R26E 505 FNL 575 FWL DIT Name: DCP Midstream Linam Ranch Processing to the following information for each new ted from a single well pad or connected to a central ted from a single well pad or connected to	following information for each new or recompleted well or set of angle well pad or connected to a central delivery point. API ULSTR Footages Anticipated Oil BBL/D Sec. 12 T18S R26E 505 FNL 575 FWL 100 Dint Name: DCP Midstream Linam Ranch Processing Plant/ Durango Midstream ted from a single well pad or connected to a central delivery point. API Spud Date TD Reached Completion Commencement API Spud Date TD Reached Completion Commencement 11/1/2021 12/1/2021 1/1/2022 ent: XAttach a complete description of how Operator will size sep ices: X Attach a complete description of the actions Operator will of 19.15.27.8 NMAC. t Practices: X Attach a complete description of Operator's best in	following information for each new or recompleted well or set of wells propagle well pad or connected to a central delivery point. API ULSTR Footages Anticipated Oil BBL/D Gas M Sec. 12 T18S R26E 505 FNL 575 FWL 100 100 Sint Name: DCP Midstream Linam Ranch Processing Plant/ Durango Midstream e: Provide the following information for each new or recompleted well or set ted from a single well pad or connected to a central delivery point. API Spud Date TD Reached Completion Date Commencement Date 11/1/2021 12/1/2021 1/1/2022 1	following information for each new or recompleted well or set of wells proposed to be dead right well pad or connected to a central delivery point. API ULSTR Footages Anticipated Oil BBL/D Gas MCF/D Sec. 12 T18S R26E 505 FNL 575 FWL 100 100 Sec. 12 T18S R26E 505 FNL 575 FWL 100 100 Sint Name: DCP Midstream Linam Ranch Processing Plant/ Durango Midstream [See 19.15] E: Provide the following information for each new or recompleted well or set of wells projected from a single well pad or connected to a central delivery point. API Spud Date TD Reached Completion Commencement Date Back Date 11/1/2021 12/1/2021 1/1/2022 1/1/2022 ent: Attach a complete description of how Operator will size separation equipment to concern Attach a complete description of the actions Operator will take to comply with for 19.15.27.8 NMAC. t Practices: Attach a complete description of Operator's best management practices

Section 2 – Enhanced Plan EFFECTIVE APRIL 1, 2022

		EFFECTIV	E APRIL 1, 2022	
Beginning April 1, 2 reporting area must co			with its statewide natural ga	as capture requirement for the applicable
☐ Operator certifies capture requirement f			tion because Operator is in o	compliance with its statewide natural gas
IX. Anticipated Nat	ural Gas Production	on:		
We	11	API	Anticipated Average Natural Gas Rate MCF/D	Anticipated Volume of Natural Gas for the First Year MCF
X. Natural Gas Gatl	hering System (NC	GGS):		
Operator	System	ULSTR of Tie-in	Anticipated Gathering Start Date	Available Maximum Daily Capacity of System Segment Tie-in
production operations the segment or portion XII. Line Capacity. production volume from XIII. Line Pressure. natural gas gathering Attach Operator's XIV. Confidentiality Section 2 as provided	s to the existing or p n of the natural gas The natural gas ga om the well prior to Operator Operator does system(s) described plan to manage pro y: Operator asso in Paragraph (2) of	blanned interconnect of the gathering system(s) to we thering system will the blanch date of first product above will continue to be duction in response to the confidentiality pursue.	he natural gas gathering systewhich the well(s) will be considered will not have capacity to getion. At its existing well(s) connect meet anticipated increases in the increased line pressure. But to Section 71-2-8 NMS 27.9 NMAC, and attaches a few which the well (s) will be considered increased line pressure.	ticipated pipeline route(s) connecting the em(s), and the maximum daily capacity of nected. ather 100% of the anticipated natural gas ted to the same segment, or portion, of the a line pressure caused by the new well(s). SA 1978 for the information provided in full description of the specific information

(i)

Section 3 - Certifications Effective May 25, 2021

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; compression on lease; (c) (d) liquids removal on lease; reinjection for underground storage; (e) **(f)** reinjection for temporary storage; **(g)** reinjection for enhanced oil recovery; fuel cell production; and (h)

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
- (b) 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: Delilah Flores
Printed Name: Delilah Flores
Title: Regulatory Technician I
E-mail Address: regulatory@redwoodoperating.com
Date: 8/12/2021
Phone:
575-748-1288
OIL CONSERVATION DIVISION
(Only applicable when submitted as a standalone form)
Approved By:
Title:
Approval Date:
Conditions of Approval:

VI. Separation Equipment:

Redwood Operating LLC production facilities include separation equipment designed to efficiently separate gas from liquid phases to optimize gas capture based on projected and estimated volumes from the targeted pool of our completion project. Redwood Operating LLC will utilize flowback separation equipment and production separation equipment designed and built to industry specifications after the completion to optimize gas capture and send gas to sales or flare based on analytical composition. Redwood Operating LLC operates facilities that are typically multi-well facilities. Production separation equipment is upgraded prior to new wells being completed, if determined to be undersized or inadequate. This equipment is already on-site and tied into our sales gas lines prior to the new drill operations.

VII. Operational Practices:

- 1. Subsection (A) Venting and Flaring of Natural Gas. Redwood Operating LLC understands the requirements of NMAC 19.15.27.8 which outlines that the venting and flaring of natural gas during drilling, completion or production operations that constitutes waste as defined in 19.15.2 are prohibited.
- 2. Subsection (B) Venting and Flaring during drilling operations. This gas capture plan isn't for a well being drilled.
- 3. Subsection (C) Venting and flaring during completion or recompletion. Flowlines will be routed for flowback fluids into a completion or storage tank and if feasible under well conditions, flare rather than vent and commence operation of a separator as soon as it is technically feasible for a separator to function.
 - At any point in the well life (completion, production, inactive) an audio, visual and olfactory inspection be performed at prescribed intervals (weekly or monthly) pursuant to Subsection D of 19.15.27.8 NMAC, to confirm that all production equipment is operating properly and there are no leaks or releases.
- 4. Subsection (D) Venting and flaring during production operations o At any point in the well life (completion, production, inactive) an audio, visual and olfactory inspection be performed at prescribed intervals (weekly or monthly) pursuant to Subsection D of 19.15.27.8 NMAC, to confirm that all production equipment is operating properly and there are no leaks or releases.
 - Monitor manual liquid unloading for wells on-site or in close proximity (<30 minutes' drive time), take reasonable actions to achieve a stabilized rate and pressure at the earliest practical time, and take reasonable actions to minimize venting to the maximum extent practicable.
 - Redwood Operating LLC will not vent or flare except during the approved activities listed in NMAC 19.15.27.8 (D) 14.
- 5. Subsection (E) Performance standards o All tanks and separation equipment are designed for maximum throughput and pressure to minimize waste.
 - If a flare is utilized during production operations it will have a continuous pilot and is located more than 100 feet from any known well or storage tanks.
 - At any point in the well life (completion, production, inactive) an audio, visual and olfactory inspection be performed at prescribed intervals (weekly or monthly) pursuant to Subsection D of 19.15.27.8 NMAC, to confirm that all production equipment is operating properly and there are no leaks or releases.

- 6. Subsection (F) Measurement or estimation of vented and flared natural gas o Measurement equipment is installed to measure the volume of natural gas flared from process piping.
 - When measurement isn't practicable, estimation of vented and flared natural gas will be completed as noted in 19.15.27.8 (F) 5-6.

VIII. Best Management Practices:

- 1. Redwood Operating LLC has adequate storage and takeaway capacity for wells it chooses to complete as the flowlines at the sites are already in place and tied into a gathering system.
- 2. Redwood Operating LLC will flare rather than vent vessel blowdown gas when technically feasible during active and/or planned maintenance to equipment on-site.
- 3. Redwood Operating LLC combusts natural gas that would otherwise be vented or flared, when technically feasible.
- 4. Redwood Operating LLC will shut in wells in the event of a takeaway disruption, emergency situation, or other operations where venting or flaring may occur due to equipment failures.

Brainard 11 #4H, Plan 1

OperatorRedwood Operating LLCUnitsfeet, °/100ft15:04 Tuesday, August 10, 2021 Page 1 of 4FieldRed LakeCountyEddyVertical Section Azimuth270.31Well NameBrainard 11 #4HStateNew MexicoSurvey Calculation MethodMinimum Curvature

Plan 1 Country USA Database Access

Location SL: 505 FNL & 575 FWL Sec 12-T18S-R26E BHL: 990

FNL & 1 FWL Sec 11-T18S-R26E Site

Slot Name UWI Well Number API

Project MD/TVD Ref KB Gr

Map Zone UTM

Surface X 1842709.6 **Surface Y** 11894903.4

Surface Z 3301.3

Ground Level 3283.3

Lat Long Ref

Surface Long
Surface Lat
Global Z Ref KB

Local North Ref Grid

DIRECTIONAL WELL PLAN

MD*	INC*	AZI*	TVD*	N*	E*	_	V. S.*	MapE*	MapN*	SysTVD*
*** TIE (at MD	= 2104.00)	doa	ft	ft	ft	°/100ff	++	**	++	**
2104.00	0.00	0.0	2104.00	0.00	0.00		0.00	1842709.60	11894903.40	1197.30
2150.00	0.00	0.0	2150.00	0.00	0.00	0.00	0.00	1842709.60	11894903.40	1151.30
2200.00	0.00	0.0	2200.00	0.00	0.00	0.00	0.00	1842709.60	11894903.40	1101.30
*** KOP 9 DEG	REES (at N	MD = 2204	1.00)							
2204.00	0.00	0.0	2204.00	0.00	0.00	0.00	0.00	1842709.60	11894903.40	1097.30
2250.00	3.68	229.0	2249.97	-0.97	-1.11	8.00	1.11	1842708.49	11894902.43	1051.33
2300.00	7.68	229.0	2299.71	-4.21	-4.85	8.00	4.83	1842704.75	11894899.19	1001.59
2350.00	11.68	229.0	2348.99	-9.73	-11.19	8.00	11.14	1842698.41	11894893.67	952.31
2400.00	15.68	229.0	2397.56	-17.49	-20.11	8.00	20.02	1842689.49	11894885.91	903.74
2450.00	19.68	229.0	2445.19	-27.45	-31.57	8.00	31.42	1842678.03	11894875.95	856.11
2500.00	23.68	229.0	2491.65	-39.56	-45.51	8.00	45.30	1842664.09	11894863.84	809.66
2550.00	27.68	229.0	2536.70	-53.77	-61.86	8.00	61.57	1842647.74	11894849.63	764.60
2600.00	31.68	229.0	2580.13	-70.01	-80.54	8.00	80.16	1842629.06	11894833.39	704.00
2650.00	35.68	229.0	2621.73	-88.20	-101.46	8.00	100.98	1842608.14	11894815.20	679.57
2700.00	39.68	229.0	2661.29	-00.20 -108.25	-101.40	8.00	123.94	1842585.08	11894795.15	640.01
2750.00	43.68	229.0	2698.63	-100.25	-124.52 -149.61	8.00	123.9 4 148.91	1842559.99	11894793.13	602.67
2750.00	43.00	229.0	2090.03	-130.00	-149.01	6.00	140.91	1042559.99	11094773.34	002.07
2800.00	47.68	229.0	2733.55	-153.52	-176.60	8.00	175.77	1842533.00	11894749.88	567.75
2850.00	51.68	229.0	2765.90	-178.52	-205.37	8.00	204.40	1842504.23	11894724.88	535.40
*** 55 DEGREE	E TANGENT	(at MD =	= 2891.50)							
2891.50	55.00	229.0	2790.67	-200.36	-230.49	8.00	229.40	1842479.11	11894703.04	510.63
2900.00	55.00	229.0	2795.55	-204.93	-235.75	0.00	234.63	1842473.85	11894698.47	505.75
2950.00	55.00	229.0	2824.23	-231.80	-266.66	0.00	265.40	1842442.94	11894671.60	477.07
3000.00	55.00	229.0	2852.91	-258.67	-297.57	0.00	296.16	1842412.03	11894644.73	448.39
3050.00	55.00	229.0	2881.59	-285.54	-328.48	0.00	326.93	1842381.12	11894617.86	419.71
3100.00	55.00	229.0	2910.27	-312.41	-359.39	0.00	357.69	1842350.21	11894590.99	391.03
*** 10 DEGREE										
3141.50	55.00	229.0	2934.07	-334.72	-385.05	0.00	383.23	1842324.55	11894568.68	367.23
3150.00	55.48	229.9	2938.92	-339.26	-390.35	10.00	388.51	1842319.25	11894564.14	362.38
3200.00	58.38	234.7	2966.21	-364.85	-423.49	10.00	421.51	1842286.11	11894538.55	335.09
3250.00	61.47	239.3	2991.27	-388.39	-459.77	10.00	457.67	1842249.83	11894515.01	310.03
3300.00	64.69	243.6	3013.92	-409.69	-498.91	10.00	496.69	1842210.69	11894493.71	287.38
3350.00	68.03	247.6	3033.97	-428.60	-540.61	10.00	538.28	1842168.99	11894474.80	267.33
3400.00	71.47	251.5	3051.28	-444.97	-584.55	10.00	582.14	1842125.05	11894458.43	250.02
3400.00	11.71	201.0	3031.20	-TTT.01	-0000	10.00	JUZ. 14	1072 120.00	11007700.40	200.02
3450.00	74.98	255.2	3065.71	-458.67	-630.40	10.00	627.91	1842079.20	11894444.73	235.59
3500.00	78.55	258.8	3077.16	-469.61	-677.81	10.00	675.26	1842031.79	11894433.79	224.14
3550.00	82.17	262.3	3085.53	-477.69	-726.42	10.00	723.83	1841983.18	11894425.71	215.77
3600.00	85.81	265.7	3090.77	-482.86	-775.86	10.00	773.24	1841933.74	11894420.54	210.53

Page 1 of 4 SES v5.78 www.makinhole.c

Brainard 11 #4H,	Plan 1
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OperatorRedwood Operating LLCUnitsfeet, °/100ft15:04 Tuesday, August 10, 2021 Page 2 of 4FieldRed LakeCountyEddyVertical Section Azimuth270.31Well NameBrainard 11 #4HStateNew MexicoSurvey Calculation MethodMinimum CurvaturePlan1CountryUSADatabaseAccess

Location SL: 505 FNL & 575 FWL Sec 12-T18S-R26E BHL: 990 Map Zone UTM Lat Long Ref

FNL & 1 FWL Sec 11-T18S-R26E

 Site
 Surface X
 1842709.6
 Surface Long

 Slot Name
 UWI
 Surface Y
 11894903.4
 Surface Lat

 Well Number
 API
 Surface Z
 3301.3
 Global Z Ref KB

 Project
 MD/TVD Ref KB
 Ground Level
 3283.3
 Local North Ref Grid

DIRECTIONAL WELL PLAN

3650.00 89.47 2692 3092.83 -485.08 -825.76 10.00 823.12 1841883.84 11894418.32 2 ***LANDING POINT (at MD = 38668.87) 3666.87 90.70 270.3 3092.81 -485.16 -842.62 10.00 823.91 1841863.85 11894418.24 2 3700.00 90.70 270.3 3092.41 -484.98 -875.75 0.00 873.11 1841833.85 11894418.42 2 3800.00 90.70 270.3 3091.18 -484.44 -975.74 0.00 973.11 1841733.86 11894418.46 2 3800.00 90.70 270.3 3090.57 -484.16 -1025.74 0.00 1023.10 1841683.86 11894419.54 2 3900.00 90.70 270.3 3089.96 -483.89 -1075.73 0.00 1073.10 1841633.86 11894419.51 2 3900.00 90.70 270.3 3089.96 -483.89 -1075.73 0.00 1073.10 1841633.86 11894419.51 2 3900.00 90.70 270.3 3089.95 -484.62 -1125.73 0.00 1173.10 1841533.88 11894420.52 2 4050.00 90.70 270.3 3088.74 -483.35 -1175.72 0.00 1173.09 1841483.88 11894420.52 2 4100.00 90.70 270.3 3086.30 -482.81 -1225.72 0.00 1223.09 1841483.88 11894420.52 2 4200.00 90.70 270.3 3086.91 -482.54 -1325.71 0.00 1273.08 1841433.88 11894420.59 2 4250.00 90.70 270.3 3086.69 -482.00 -1425.70 0.00 1273.08 184133.89 11894421.13 2 4250.00 90.70 270.3 3086.69 -482.00 -1425.70 0.00 1273.08 184133.89 11894421.13 2 4250.00 90.70 270.3 3086.81 -481.73 -1475.70 0.00 1473.07 184123.90 11894421.13 2 4350.00 90.70 270.3 3083.85 -481.19 -1575.69 0.00 1573.06 1841133.91 11894421.40 2 4400.00 90.70 270.3 3082.63 -480.09 -1425.70 0.00 1773.05 1841933.92 11894421.40 2 4550.00 90.70 270.3 3083.85 -481.19 -1575.69 0.00 1573.06 1841133.91 11894422.14 2 4550.00 90.70 270.3 3083.85 -481.19 -1575.69 0.00 1573.06 1841133.91 11894422.14 2 4550.00 90.70 270.3 3083.85 -481.19 -1575.69 0.00 1573.05 1841033.92 11894422.40 2 4550.00 90.70 270.3 3083.85 -481.19 -1575.69 0.00 1573.05 1841033.92 11894422.40 2 4550.00 90.70 270.3 3083.85 -481.19 -1575.69 0.00 1773.05 1840933.93 11894422.40 2 4550.00 90.70 270.3 3083.85 -481.19 -1575.69 0.00 1773.05 1840933.91 11894422.40 2 4550.00 90.70 270.3 3080.89 -482.00 1775.65 0.00 1773.05 184093.92 11894422.40 2 4550.00 90.70 270.3 3073.86 -476.85 -476.85 -476.86 0.00 1873.04 184083.99 11894422.85 2 4550.00 90.70 270.3 30	MD*	INC*	AZI*	TVD*	N*	E*	DLS*	V. S.*	MapE*	MapN* S	SveTVD*
3850.00 89.47 269.2 3092.83 485.08 -825.76 10.00 823.12 1841883.84 11894418.32 2 ***LANDING POINT (at MD = 9666.87)** 3666.87 90.70 270.3 3092.81 -485.16 -842.62 10.00 839.99 1841866.98 11894418.24 2 3700.00 90.70 270.3 3091.79 484.71 -925.75 0.00 873.11 1841783.85 11894418.24 2 3850.00 90.70 270.3 3091.79 484.71 -925.75 0.00 923.11 1841783.85 11894418.49 2 3850.00 90.70 270.3 3091.79 484.71 -925.74 0.00 973.11 1841733.86 11894418.49 2 3950.00 90.70 270.3 3099.57 484.16 -1025.74 0.00 1023.10 1841683.86 11894419.24 2 3900.00 90.70 270.3 3089.95 483.89 -1075.73 0.00 1073.10 1841633.87 11894419.51 2 3950.00 90.70 270.3 3089.95 -483.62 -1125.73 0.00 1123.10 1841633.87 11894419.78 2 4000.00 90.70 270.3 3088.13 483.08 -1225.72 0.00 123.09 1841483.88 1189442.05 2 4050.00 90.70 270.3 3086.91 482.54 -1325.71 0.00 123.09 1841483.88 1189442.05 2 4150.00 90.70 270.3 3086.69 482.00 -1425.70 0.00 123.08 1841333.89 11894421.13 2 4250.00 90.70 270.3 3085.69 482.00 -1425.70 0.00 123.07 1841283.90 11894421.40 2 4350.00 90.70 270.3 3085.69 482.00 -1425.70 0.00 123.07 1841283.90 11894421.40 2 4450.00 90.70 270.3 3085.60 480.00 -1425.70 0.00 123.07 1841283.90 11894421.40 2 4450.00 90.70 270.3 3085.67 481.73 -1475.70 0.00 1273.06 184143.91 11894421.40 2 4450.00 90.70 270.3 3085.67 481.73 -1475.70 0.00 1273.06 184143.91 11894421.40 2 4450.00 90.70 270.3 3085.67 480.65 -1675.68 0.00 1623.06 184103.92 11894422.42 2 4450.00 90.70 270.3 3082.63 480.65 -1675.68 0.00 1673.05 1840983.93 11894422.40 2 4450.00 90.70 270.3 3080.80 479.84 -175.66 0.00 1873.04 184083.99 11894422.40 2 4450.00 90.70 270.3 3080.80 479.84 -1825.66 0.00 1230.0 184083.99 11894422.10 2 4450.00 90.70 270.3 3080.81 479.50 -1975.65 0.00 2233.01 1840633.96 11894422.60 2 4650.00 90.70 270.3 3077.74 478.48 -2075.64 0.00 2273.01 1840633.96 11894423.02 2 4650.00 90.70 270.3 3077.74 478.48 -2075.64 0.00 2273.01 1840633.96 11894425.60 2 4000.00 90.70 270.3 3077.50 477.67 -2225.65 0.00 2233.01 1840633.99 11894425.60 2 5000.00 90.70 270.3 3074.69 477.67 -2225.66 0.00 2233.01 1840	ft		doa	ft	ft	ft	°/100ff		Wap∟ #	- ft	ysivu #
366.687 90.70 270.3 3092.81 -484.98 -875.75 0.00 873.11 184186.98 11894418.42 2 2 2 2 2 2 2 2 2	3650.00	89.47	269.2	3092.83	-485.08	-825.76	10.00	823.12	1841883.84	11894418.32	208.47
3700.00 90.70 270.3 3092.41 484.98 -875.75 0.00 873.11 1841833.85 11894418.69 2 3750.00 90.70 270.3 3091.79 -484.71 -925.75 0.00 923.11 1841733.86 11894418.69 2 3850.00 90.70 270.3 3091.18 -484.44 -975.74 0.00 1023.10 1841683.86 11894419.24 2 3950.00 90.70 270.3 3089.96 -483.89 -1075.73 0.00 1073.10 1841683.87 11894419.78 2 4000.00 90.70 270.3 3089.96 -483.89 -1175.73 0.00 1173.10 1841683.87 11894419.78 2 4000.00 90.70 270.3 3088.74 -483.89 -1175.72 0.00 1173.09 1841833.88 11894420.05 2 4150.00 90.70 270.3 3086.91 -482.81 -1275.72 0.00 1223.09 1841483.88 11894420.32 2 4150.0	*** LANDING F	POINT (at I	MD = 3666	.87)							
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3800.00 90.70 270.3 3091.18 -484.44 -975.74 0.00 973.11 1841733.86 11894418.96 2 3800.00 90.70 270.3 3090.57 -484.16 -1025.74 0.00 1023.10 1841683.86 11894419.24 2 3900.00 90.70 270.3 3089.35 -483.62 -1125.73 0.00 1073.10 1841683.87 11894419.51 2 4000.00 90.70 270.3 3088.74 -483.35 -1175.72 0.00 1173.09 1841583.87 11894419.78 2 4050.00 90.70 270.3 3088.13 -483.08 -1225.72 0.00 1273.09 1841483.88 11894420.32 2 4150.00 90.70 270.3 3086.31 -482.24 -1325.71 0.00 1273.08 1841333.89 11894420.32 2 4250.00 90.70 270.3 3086.30 -482.27 -1375.71 0.00 1373.08 1841333.89 11894421.32 2 42	3700.00	90.70	270.3	3092.41	-484.98	-875.75	0.00	873.11	1841833.85	11894418.42	208.89
3850.00 90.70 270.3 3090.57 -484.16 -1025.74 0.00 1023.10 1841683.86 11894419.24 2 3900.00 90.70 270.3 3089.96 -483.89 -1075.73 0.00 1073.10 1841633.87 11894419.78 2 4000.00 90.70 270.3 3088.74 -483.35 -1175.72 0.00 1173.09 1841583.87 11894419.78 2 4050.00 90.70 270.3 3088.73 -483.08 -1225.72 0.00 1223.09 1841483.88 11894420.52 2 4100.00 90.70 270.3 3086.91 -482.81 -1275.72 0.00 1273.08 1841483.88 11894420.59 2 4150.00 90.70 270.3 3086.91 -482.54 -1325.71 0.00 1323.08 1841333.89 11894420.86 2 4250.00 90.70 270.3 3086.50 -482.00 -1425.70 0.00 1423.07 1841283.90 11894421.13 2	3750.00	90.70	270.3	3091.79	-484.71	-925.75	0.00	923.11	1841783.85	11894418.69	209.51
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4750.00 90.70 270.3 3079.58 -479.30 -1925.66 0.00 1923.04 1840783.94 11894424.10 2 4800.00 90.70 270.3 3078.97 -479.03 -1975.65 0.00 1973.03 1840733.95 11894424.38 2 4850.00 90.70 270.3 3078.36 -478.75 -2025.65 0.00 2023.03 1840683.95 11894424.65 2 4900.00 90.70 270.3 3077.74 -478.48 -2075.64 0.00 2073.03 1840683.95 11894424.92 2 4950.00 90.70 270.3 3077.13 -478.21 -2125.64 0.00 2123.02 1840583.96 11894425.19 2 5000.00 90.70 270.3 3076.52 -477.94 -2175.64 0.00 2173.02 1840583.96 11894425.46 2 5050.00 90.70 270.3 3075.91 -477.67 -2225.63 0.00 2223.01 1840483.97 11894425.73 2 5150.00 90.70 270.3 3074.69 -477.13 -2325.62 0.00	4650.00	90.70	270.3	3080.80	-479.84	-1825.67	0.00	1823.04	1840883.93	11894423.56	220.50
4800.00 90.70 270.3 3078.97 -479.03 -1975.65 0.00 1973.03 1840733.95 11894424.38 2 4850.00 90.70 270.3 3078.36 -478.75 -2025.65 0.00 2023.03 1840683.95 11894424.65 2 4900.00 90.70 270.3 3077.74 -478.48 -2075.64 0.00 2073.03 1840633.96 11894424.92 2 4950.00 90.70 270.3 3077.13 -478.21 -2125.64 0.00 2123.02 1840583.96 11894425.19 2 5000.00 90.70 270.3 3076.52 -477.94 -2175.64 0.00 2173.02 1840533.96 11894425.46 2 5050.00 90.70 270.3 3075.91 -477.67 -2225.63 0.00 2223.01 1840483.97 11894425.73 2 5100.00 90.70 270.3 3075.30 -477.40 -2275.63 0.00 2273.01 1840433.97 11894426.00 2 5200.00 90.70 270.3 3074.69 -477.13 -2325.62 0.00	4700.00	90.70	270.3	3080.19	-479.57	-1875.66	0.00	1873.04	1840833.94	11894423.83	221.11
4850.00 90.70 270.3 3078.36 -478.75 -2025.65 0.00 2023.03 1840683.95 11894424.65 2 4900.00 90.70 270.3 3077.74 -478.48 -2075.64 0.00 2073.03 1840633.96 11894424.92 2 4950.00 90.70 270.3 3077.13 -478.21 -2125.64 0.00 2123.02 1840583.96 11894425.19 2 5000.00 90.70 270.3 3076.52 -477.94 -2175.64 0.00 2173.02 1840583.96 11894425.46 2 5050.00 90.70 270.3 3075.91 -477.67 -2225.63 0.00 2223.01 1840483.97 11894425.73 2 5100.00 90.70 270.3 3075.30 -477.40 -2275.63 0.00 2273.01 1840433.97 11894426.00 2 5150.00 90.70 270.3 3074.69 -477.13 -2325.62 0.00 2323.01 1840383.98 11894426.27 2 5200.00 90.70 270.3 3074.08 -476.86 -2375.62 0.00	4750.00	90.70	270.3	3079.58	-479.30	-1925.66	0.00	1923.04	1840783.94	11894424.10	221.72
4900.00 90.70 270.3 3077.74 -478.48 -2075.64 0.00 2073.03 1840633.96 11894424.92 2 4950.00 90.70 270.3 3077.13 -478.21 -2125.64 0.00 2123.02 1840583.96 11894425.19 2 5000.00 90.70 270.3 3076.52 -477.94 -2175.64 0.00 2173.02 1840533.96 11894425.46 2 5050.00 90.70 270.3 3075.91 -477.67 -2225.63 0.00 2223.01 1840483.97 11894425.73 2 5100.00 90.70 270.3 3075.30 -477.40 -2275.63 0.00 2273.01 1840433.97 11894426.00 2 5150.00 90.70 270.3 3074.69 -477.13 -2325.62 0.00 2323.01 1840383.98 11894426.27 2 5200.00 90.70 270.3 3074.08 -476.86 -2375.62 0.00 2373.00 1840333.98 11894426.54 2 5250.00 90.70 270.3 3073.47 -476.59 -2425.61 0.00	4800.00	90.70	270.3	3078.97	-479.03	-1975.65	0.00	1973.03	1840733.95	11894424.38	222.33
4950.00 90.70 270.3 3077.13 -478.21 -2125.64 0.00 2123.02 1840583.96 11894425.19 2 5000.00 90.70 270.3 3076.52 -477.94 -2175.64 0.00 2173.02 1840533.96 11894425.46 2 5050.00 90.70 270.3 3075.91 -477.67 -2225.63 0.00 2223.01 1840483.97 11894425.73 2 5100.00 90.70 270.3 3075.30 -477.40 -2275.63 0.00 2273.01 1840433.97 11894426.00 2 5150.00 90.70 270.3 3074.69 -477.13 -2325.62 0.00 2323.01 1840383.98 11894426.27 2 5200.00 90.70 270.3 3074.08 -476.86 -2375.62 0.00 2373.00 1840333.98 11894426.54 2 5250.00 90.70 270.3 3073.47 -476.59 -2425.61 0.00 2423.00 1840283.99 11894426.81 2 5300.00 90.70 270.3 3072.86 -476.32 -2475.61 0.00	4850.00	90.70	270.3	3078.36	-478.75	-2025.65	0.00	2023.03	1840683.95	11894424.65	222.94
4950.00 90.70 270.3 3077.13 -478.21 -2125.64 0.00 2123.02 1840583.96 11894425.19 2 5000.00 90.70 270.3 3076.52 -477.94 -2175.64 0.00 2173.02 1840533.96 11894425.46 2 5050.00 90.70 270.3 3075.91 -477.67 -2225.63 0.00 2223.01 1840483.97 11894425.73 2 5100.00 90.70 270.3 3075.30 -477.40 -2275.63 0.00 2273.01 1840433.97 11894426.00 2 5150.00 90.70 270.3 3074.69 -477.13 -2325.62 0.00 2323.01 1840383.98 11894426.27 2 5200.00 90.70 270.3 3074.08 -476.86 -2375.62 0.00 2373.00 1840333.98 11894426.54 2 5250.00 90.70 270.3 3073.47 -476.59 -2425.61 0.00 2423.00 1840283.99 11894426.81 2 5300.00 90.70 270.3 3072.86 -476.32 -2475.61 0.00	4900.00	90.70	270.3	3077.74	-478.48	-2075.64	0.00	2073.03	1840633.96	11894424.92	223.56
5000.00 90.70 270.3 3076.52 -477.94 -2175.64 0.00 2173.02 1840533.96 11894425.46 2.00 5050.00 90.70 270.3 3075.91 -477.67 -2225.63 0.00 2223.01 1840483.97 11894425.73 2.00 5100.00 90.70 270.3 3075.30 -477.40 -2275.63 0.00 2273.01 1840433.97 11894426.00 2.00 5150.00 90.70 270.3 3074.69 -477.13 -2325.62 0.00 2323.01 1840383.98 11894426.27 2.00 2.00 2373.00 1840333.98 11894426.54 2.00 2.00 2373.00 1840283.99 11894426.81 2.00 2.00 2423.00 1840283.99 11894426.81 2.00 2.00 2473.00 1840233.99 11894426.81 2.00 2.00 2473.00 1840233.99 11894427.08 2.00 2.00 2473.00 1840233.99 11894427.08 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>224.17</td></t<>											224.17
5050.00 90.70 270.3 3075.91 -477.67 -2225.63 0.00 2223.01 1840483.97 11894425.73 2 5100.00 90.70 270.3 3075.30 -477.40 -2275.63 0.00 2273.01 1840433.97 11894426.00 2 5150.00 90.70 270.3 3074.69 -477.13 -2325.62 0.00 2323.01 1840383.98 11894426.27 2 5200.00 90.70 270.3 3074.08 -476.86 -2375.62 0.00 2373.00 1840333.98 11894426.54 2 5250.00 90.70 270.3 3073.47 -476.59 -2425.61 0.00 2423.00 1840283.99 11894426.81 2 5300.00 90.70 270.3 3072.86 -476.32 -2475.61 0.00 2473.00 1840233.99 11894427.08 2											224.78
5100.00 90.70 270.3 3075.30 -477.40 -2275.63 0.00 2273.01 1840433.97 11894426.00 2 5150.00 90.70 270.3 3074.69 -477.13 -2325.62 0.00 2323.01 1840383.98 11894426.27 2 5200.00 90.70 270.3 3074.08 -476.86 -2375.62 0.00 2373.00 1840333.98 11894426.54 2 5250.00 90.70 270.3 3073.47 -476.59 -2425.61 0.00 2423.00 1840283.99 11894426.81 2 5300.00 90.70 270.3 3072.86 -476.32 -2475.61 0.00 2473.00 1840233.99 11894427.08 2											225.39
5200.00 90.70 270.3 3074.08 -476.86 -2375.62 0.00 2373.00 1840333.98 11894426.54 2.00 5250.00 90.70 270.3 3073.47 -476.59 -2425.61 0.00 2423.00 1840283.99 11894426.81 2.00 5300.00 90.70 270.3 3072.86 -476.32 -2475.61 0.00 2473.00 1840233.99 11894427.08 2.00											226.00
5200.00 90.70 270.3 3074.08 -476.86 -2375.62 0.00 2373.00 1840333.98 11894426.54 2.00 5250.00 90.70 270.3 3073.47 -476.59 -2425.61 0.00 2423.00 1840283.99 11894426.81 2.00 5300.00 90.70 270.3 3072.86 -476.32 -2475.61 0.00 2473.00 1840233.99 11894427.08 2.00	5150 00	Q0 70	270.3	3074 60	_//77 12	-2325 62	0.00	2323 N1	18/0383 08	1180//26 27	226.61
5250.00 90.70 270.3 3073.47 -476.59 -2425.61 0.00 2423.00 1840283.99 11894426.81 2. 5300.00 90.70 270.3 3072.86 -476.32 -2475.61 0.00 2473.00 1840233.99 11894427.08 2.											220.01
5300.00 90.70 270.3 3072.86 -476.32 -2475.61 0.00 2473.00 1840233.99 11894427.08 2											
											227.83
3330.00 90.70 270.3 3072.23 -470.03 -2323.00 0.00 2322.99 1040104.00 11894427.35 2.											228.44 229.05
	JJJU.00	9U.1U	210.3	3012.23	-4 70.03	-2323.00	0.00	ZJZZ.33	1040104.00	11054421.33	229.00

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Lat Long Ref

Brainard 11 #4H, Plan 1

Operator Redwood Operating LLC Units feet, °/100ft 15:04 Tuesday, August 10, 2021 Page 3 of 4 Field Red Lake County Eddy Vertical Section Azimuth 270.31 Well Name Brainard 11 #4H State New Mexico **Survey Calculation Method** Minimum Curvature **Database** Access

Map Zone UTM

Plan 1 **Country** USA

Location SL: 505 FNL & 575 FWL Sec 12-T18S-R26E BHL: 990 FNL & 1 FWL Sec 11-T18S-R26E

Site **Surface X** 1842709.6 **Surface Long** UWI **Surface Y** 11894903.4 **Slot Name Surface Lat Well Number** API **Surface Z** 3301.3 Global Z Ref KB **Project** MD/TVD Ref KB Ground Level 3283.3 Local North Ref Grid

DIRECTIONAL WELL PLAN

MD*	INC*	AZI*	TVD*	N*	E*	DLS*	V. S.*	MapE*	MapN* \$	SysTVD*
5400.00	90.70	270.3	3071.64	-475.78	-2575.60	0.00	2572.99	1840134.00	11894427.62	229.66
5450.00	90.70	270.3	3071.03	-475.51	-2625.60	0.00	2622.98	1840084.00	11894427.89	230.27
5500.00	90.70	270.3	3070.41	-475.24	-2675.59	0.00	2672.98	1840034.01	11894428.16	230.89
5550.00	90.70	270.3	3069.80	-474.97	-2725.59	0.00	2722.98	1839984.01	11894428.43	231.50
5600.00	90.70	270.3	3069.19	-474.70	-2775.58	0.00	2772.97	1839934.02	11894428.70	232.11
5650.00	90.70	270.3	3068.58	-474.43	-2825.58	0.00	2822.97	1839884.02	11894428.97	232.72
5700.00	90.70	270.3	3067.97	-474.16	-2875.57	0.00	2872.97	1839834.03	11894429.24	233.33
5750.00	90.70	270.3	3067.36	-473.89	-2925.57	0.00	2922.96	1839784.03	11894429.51	233.94
5800.00	90.70	270.3	3066.75	-473.61	-2975.56	0.00	2972.96	1839734.04	11894429.79	234.55
5850.00	90.70	270.3	3066.14	-473.34	-3025.56	0.00	3022.95	1839684.04	11894430.06	235.16
5900.00	90.70	270.3	3065.53	-473.07	-3075.56	0.00	3072.95	1839634.05	11894430.33	235.77
5950.00	90.70	270.3	3064.92	-472.80	-3125.55	0.00	3122.95	1839584.05	11894430.60	236.38
6000.00	90.70	270.3	3064.31	-472.53	-3175.55	0.00	3172.94	1839534.05	11894430.87	236.99
6050.00	90.70	270.3	3063.70	-472.26	-3225.54	0.00	3222.94	1839484.06	11894431.14	237.60
6100.00	90.70	270.3	3063.08	-471.99	-3275.54	0.00	3272.94	1839434.06	11894431.41	238.22
6150.00	90.70	270.3	3062.47	-471.72	-3325.53	0.00	3322.93	1839384.07	11894431.68	238.83
6200.00	90.70	270.3	3061.86	-471.45	-3375.53	0.00	3372.93	1839334.07	11894431.95	239.44
6250.00	90.70	270.3	3061.25	-471.18	-3425.52	0.00	3422.92	1839284.08	11894432.22	240.05
6300.00	90.70	270.3	3060.64	-470.91	-3475.52	0.00	3472.92	1839234.08	11894432.49	240.66
6350.00	90.70	270.3	3060.03	-470.64	-3525.51	0.00	3522.92	1839184.09	11894432.76	241.27
6400.00	90.70	270.3	3059.42	-470.37	-3575.51	0.00	3572.91	1839134.09	11894433.03	241.88
6450.00	90.70	270.3	3058.81	-470.10	-3625.51	0.00	3622.91	1839084.09	11894433.30	242.49
6500.00	90.70	270.3	3058.20	-469.83	-3675.50	0.00	3672.91	1839034.10	11894433.57	243.10
6550.00	90.70	270.3	3057.59	-469.56	-3725.50	0.00	3722.90	1838984.10	11894433.84	243.71
6600.00	90.70	270.3	3056.98	-469.29	-3775.49	0.00	3772.90	1838934.11	11894434.11	244.32
6650.00	90.70	270.3	3056.37	-469.02	-3825.49	0.00	3822.89	1838884.11	11894434.38	244.94
6700.00	90.70	270.3	3055.75	-468.75	-3875.48	0.00	3872.89	1838834.12	11894434.65	245.55
6750.00	90.70	270.3	3055.14	-468.48	-3925.48	0.00	3922.89	1838784.12	11894434.92	246.16
6800.00	90.70	270.3	3054.53	-468.20	-3975.47	0.00	3972.88	1838734.13	11894435.20	246.77
6850.00	90.70	270.3	3053.92	-467.93	-4025.47	0.00	4022.88	1838684.13	11894435.47	247.38
6900.00	90.70	270.3	3053.31	-467.66	-4075.47	0.00	4072.88	1838634.13	11894435.74	247.99
6950.00	90.70	270.3	3052.70	-467.39	-4125.46	0.00	4122.87	1838584.14	11894436.01	248.60
7000.00	90.70	270.3	3052.09	-467.12	-4175.46	0.00	4172.87	1838534.14	11894436.28	249.21
7050.00	90.70	270.3	3051.48	-466.85	-4225.45	0.00	4222.86	1838484.15	11894436.55	249.82
7100.00	90.70	270.3	3050.87	-466.58	-4275.45	0.00	4272.86	1838434.15	11894436.82	250.43
7150.00	90.70	270.3	3050.26	-466.31	-4325.44	0.00	4322.86	1838384.16	11894437.09	251.04
7200.00	90.70	270.3	3049.65	-466.04	-4375.44	0.00	4372.85	1838334.16	11894437.36	251.65

Brainard 11 #4H, Plan 1

OperatorRedwood Operating LLCUnitsfeet, °/100ft15:04 Tuesday, August 10, 2021 Page 4 of 4FieldRed LakeCountyEddyVertical Section Azimuth270.31Well NameBrainard 11 #4HStateNew MexicoSurvey Calculation MethodMinimum CurvaturePlan1CountryUSADatabaseAccess

Location SL: 505 FNL & 575 FWL Sec 12-T18S-R26E BHL: 990

FNL & 1 FWL Sec 11-T18S-R26E

Site
Slot Name UWI
Well Number API

Project MD/TVD Ref KB

Map Zone UTM

Surface X 1842709.6 **Surface Y** 11894903.4

Surface Z 3301.3 Ground Level 3283.3 Lat Long Ref

Surface Long
Surface Lat
Global Z Ref KB

Local North Ref Grid

DIRECTIONAL WELL PLAN

MD*	INC*	AZI*	TVD*	N*	E*	DLS*	V. S.*	MapE*	MapN* S	SysTVD*
7250.00	90.70	270.3	3049.03	-465.77	-4425.43	0.00	4422.85	1838284.17	11894437.63	252.27
7300.00	90.70	270.3	3048.42	-465.50	-4475.43	0.00	4472.85	1838234.17	11894437.90	252.88
7350.00	90.70	270.3	3047.81	-465.23	-4525.43	0.00	4522.84	1838184.17	11894438.17	253.49
7400.00	90.70	270.3	3047.20	-464.96	-4575.42	0.00	4572.84	1838134.18	11894438.44	254.10
7450.00	90.70	270.3	3046.59	-464.69	-4625.42	0.00	4622.83	1838084.18	11894438.71	254.71
7500.00	90.70	270.3	3045.98	-464.42	-4675.41	0.00	4672.83	1838034.19	11894438.98	255.32
7550.00	90.70	270.3	3045.37	-464.15	-4725.41	0.00	4722.83	1837984.19	11894439.25	255.93
7600.00	90.70	270.3	3044.76	-463.88	-4775.40	0.00	4772.82	1837934.20	11894439.52	256.54
7650.00	90.70	270.3	3044.15	-463.61	-4825.40	0.00	4822.82	1837884.20	11894439.79	257.15
7700.00	90.70	270.3	3043.54	-463.34	-4875.39	0.00	4872.82	1837834.21	11894440.06	257.76
7750.00	90.70	270.3	3042.93	-463.07	-4925.39	0.00	4922.81	1837784.21	11894440.33	258.37
7800.00	90.70	270.3	3042.32	-462.79	-4975.39	0.00	4972.81	1837734.21	11894440.61	258.98
7850.00	90.70	270.3	3041.70	-462.52	-5025.38	0.00	5022.80	1837684.22	11894440.88	259.60
7900.00	90.70	270.3	3041.09	-462.25	-5075.38	0.00	5072.80	1837634.22	11894441.15	260.21
7950.00	90.70	270.3	3040.48	-461.98	-5125.37	0.00	5122.80	1837584.23	11894441.42	260.82
8000.00	90.70	270.3	3039.87	-461.71	-5175.37	0.00	5172.79	1837534.23	11894441.69	261.43
8050.00	90.70	270.3	3039.26	-461.44	-5225.36	0.00	5222.79	1837484.24	11894441.96	262.04
8100.00	90.70	270.3	3038.65	-461.17	-5275.36	0.00	5272.79	1837434.24	11894442.23	262.65
8150.00	90.70	270.3	3038.04	-460.90	-5325.35	0.00	5322.78	1837384.25	11894442.50	263.26
8200.00	90.70	270.3	3037.43	-460.63	-5375.35	0.00	5372.78	1837334.25	11894442.77	263.87
8250.00	90.70	270.3	3036.82	-460.36	-5425.35	0.00	5422.78	1837284.25	11894443.04	264.48
8300.00	90.70	270.3	3036.21	-460.09	-5475.34	0.00	5472.77	1837234.26	11894443.31	265.09
8350.00	90.70	270.3	3035.60	-459.82	-5525.34	0.00	5522.77	1837184.26	11894443.58	265.70
0.400.00	00.70	070.0	0004.00	450.55	5575.00	0.00	5570.70	100710107	44004440.05	000.04
8400.00	90.70	270.3	3034.99	-459.55	-5575.33	0.00	5572.76	1837134.27	11894443.85	266.31
8450.00	90.70	270.3	3034.37	-459.28	-5625.33	0.00	5622.76	1837084.27	11894444.12	266.93
8500.00	90.70	270.3	3033.76	-459.01	-5675.32	0.00	5672.76	1837034.28	11894444.39	267.54
8550.00	90.70	270.3	3033.15	-458.74	-5725.32	0.00	5722.75	1836984.28	11894444.66	268.15
8600.00	90.70	270.3	3032.54	-458.47	-5775.31	0.00	5772.75	1836934.29	11894444.93	268.76
8650.00 *** TD (at MD	90.70 = 8698.87)	270.3	3031.93	-458.20	-5825.31	0.00	5822.75	1836884.29	11894445.20	269.37
8698.87	90.70	270.3	3031.33	-457.93	-5874.17	0.00	5871.61	1836835.43	11894445.47	269.97

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