

District I

1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720

District II

811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720

District III

1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170

District IV

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

Form C-101
August 1, 2011

Permit 307213

APPLICATION FOR PERMIT TO DRILL, RE-ENTER, DEEPEN, PLUGBACK, OR ADD A ZONE

1. Operator Name and Address Redwood Operating LLC PO Box 1370 Artesia, NM 882111370		2. OGRID Number 330211
		3. API Number 30-015-49210
4. Property Code 329363	5. Property Name BRAINARD 12	6. Well No. 005H

7. Surface Location

UL - Lot K	Section 12	Township 18S	Range 29E	Lot Idn	Feet From 2000	N/S Line S	Feet From 2070	E/W Line W	County Eddy
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8. Proposed Bottom Hole Location

UL - Lot L	Section 11	Township 18S	Range 26E	Lot Idn L	Feet From 2310	N/S Line S	Feet From 1	E/W Line W	County Eddy
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9. Pool Information

RED LAKE:GLORIETA-YESO	51120
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Additional Well Information

11. Work Type New Well	12. Well Type OIL	13. Cable/Rotary	14. Lease Type Private	15. Ground Level Elevation 3289
16. Multiple N	17. Proposed Depth 10346	18. Formation Yeso	19. Contractor	20. Spud Date 4/25/2022
Depth to Ground water		Distance from nearest fresh water well		Distance to nearest surface water

☒ We will be using a closed-loop system in lieu of lined pits

21. Proposed Casing and Cement Program

Type	Hole Size	Casing Size	Casing Weight/ft	Setting Depth	Sacks of Cement	Estimated TOC
Surf	12.25	9.625	36	1230	450	0
Prod	8.75	7	26	3450	1900	0
Prod	8.75	7	26	2350	1900	0
Prod	8.75	5.5	17	10346	375	0

Casing/Cement Program: Additional Comments

Redwood Operating proposed to drill 12 1/4 hole to 1230', run 9 5/8 csg/cmt. Drill 8 3/4 hole to 10346', run 7" & 5 1/2" csg/cmt, put well on production.

22. Proposed Blowout Prevention Program

Type	Working Pressure	Test Pressure	Manufacturer
Double Ram	3000	3000	

23. I hereby certify that the information given above is true and complete to the best of my knowledge and belief. I further certify I have complied with 19.15.14.9 (A) NMAC ☒ and/or 19.15.14.9 (B) NMAC ☒ if applicable.	OIL CONSERVATION DIVISION	
Signature:		
Printed Name: Electronically filed by Jerry Sherrell	Approved By: Katherine Pickford	
Title: Regulatory Supervisor	Title: Geoscientist	
Email Address: jerrys@mec.com	Approved Date: 1/27/2022	Expiration Date: 1/27/2024
Date: 1/26/2022	Phone: 575-748-1288	Conditions of Approval Attached

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

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

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-015-49210	² Pool Code 51120	³ Pool Name Red Lake; Glorieta-Yeso
⁴ Property Code 329363	⁵ Property Name BRAINARD 12	⁶ Well Number 5H
⁷ OGRID No. 330211	⁸ Operator Name REDWOOD OPERATING, LLC	⁹ Elevation 3288.5

¹⁰ Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
K	12	18 S	26 E		2000	SOUTH	2070	WEST	EDDY

¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
L	11	18 S	26 E		2310	SOUTH	1	WEST	EDDY

¹² Dedicated Acres 160 200	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
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No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.

	¹⁷ OPERATOR CERTIFICATION <i>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.</i> <u>Delilah Flores</u> 1/25/2022 Signature Date <u>Delilah Flores</u> Printed Name <u>regulatory@redwoodoperating.com</u> E-mail Address
	¹⁸ SURVEYOR CERTIFICATION <i>I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.</i> JANUARY 24, 2022 Date of Survey <u>ELIMON F. JARAMILLO</u> Signature and Seal of Professional Surveyor Certificate Number: <u>ELIMON F. JARAMILLO, LS 12797</u> SURVEY NO. 9187A

Intent ☐ As Drilled ☐

API #		
Operator Name: REDWOOD OPERATING, LLC	Property Name: BRAINARD 12	Well Number 5H

Kick Off Point (KOP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
Latitude					Longitude				NAD

First Take Point (FTP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
L	12	18S	26E		2310	SOUTH	1220	WEST	EDDY
Latitude 32.7615357					Longitude 104.3399385				NAD 83

Last Take Point (LTP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
L	11	18S	26E		2310	SOUTH	100	WEST	EDDY
Latitude 32.7615838					Longitude 104.3607770				NAD 83

Is this well the defining well for the Horizontal Spacing Unit? ☐Is this well an infill well? ☐

If infill is yes please provide API if available, Operator Name and well number for Defining well for Horizontal Spacing Unit.

API #		
Operator Name:	Property Name:	Well Number

KZ 06/29/2018

ACCESS ROAD PLAT

ACCESS ROAD FOR BRAINARD 12 5H, 6H, & 7H

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
JANUARY 24, 2022**

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 NE/4 SW/4 OF SAID SECTION 12, TOWNSHIP 18 SOUTH, RANGE 26 EAST, N.M.P.M., WHENCE THE SOUTHWEST CORNER OF SAID SECTION 12, TOWNSHIP 18 SOUTH, RANGE 26 EAST, N.M.P.M. BEARS S51°01'38"W, A DISTANCE OF 2188.28 FEET;
THENCE N47°58'38"E A DISTANCE OF 306.78 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED;
THENCE N00°01'08"E A DISTANCE OF 223.08 FEET THE TERMINUS OF THIS CENTERLINE SURVEY, WHENCE THE SOUTHWEST CORNER OF SAID SECTION 12, TOWNSHIP 18 SOUTH, RANGE 26 EAST, N.M.P.M. BEARS S46°54'33"W, A DISTANCE OF 2641.82 FEET;

SAID STRIP OF LAND BEING 529.86 FEET OR 32.11 RODS IN LENGTH, CONTAINING 0.365 ACRES MORE OR LESS AND BEING ALLOCATED BY FORTIES AS FOLLOWS:

NE/4 SW/4 529.86 L.F. 32.11 RODS 0.365 ACRES

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. 301 SOUTH CANAL CARLSBAD, NEW MEXICO (575) 234-3341

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 WITNESS WHEREOF THIS CERTIFICATE IS EXECUTED AT CARLSBAD, NEW MEXICO, THIS 24TH DAY OF JANUARY 2022

FILIMON F. JARAMILLO, PLS. 12797
301 SOUTH CANAL
(575) 234-3341
PROFESSIONAL SURVEYOR

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

SURVEY NO. 9187A

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Oil Conservation Division
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Santa Fe, NM 87505

Form APD Conditions

Permit 307213

PERMIT CONDITIONS OF APPROVAL

Operator Name and Address: Redwood Operating LLC [330211] PO Box 1370 Artesia, NM 882111370	API Number: 30-015-49210
	Well: BRAINARD 12 #005H

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

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: Redwood Operating LLC **OGRID:** 330211 **Date:** 01 / 25 / 2022

II. Type: ☒ Original ☐ Amendment due to ☐ 19.15.27.9.D(6)(a) NMAC ☐ 19.15.27.9.D(6)(b) NMAC ☐ Other.

If Other, please describe: _____

III. Well(s): Provide the following information for each new or recompleted well or set of wells proposed to be drilled or proposed to be recompleted from a single well pad or connected to a central delivery point.

Well Name	API	ULSTR	Footages	Anticipated Oil BBL/D	Anticipated Gas MCF/D	Anticipated Produced Water BBL/D
Brainard 12 5H		Sec. 12 T18S R26E	2000FSL2070FWL	100	100	1,000

IV. Central Delivery Point Name: DCP Midstream Linam Ranch Processing Plant/ Durango Midstream [See 19.15.27.9(D)(1) NMAC]

V. Anticipated Schedule: Provide the following information for each new or recompleted well or set of wells proposed to be drilled or proposed to be recompleted from a single well pad or connected to a central delivery point.

Well Name	API	Spud Date	TD Reached Date	Completion Commencement Date	Initial Flow Back Date	First Production Date
Brainard 12 5H		04/1/2022	5/1/2022	6/1/2022	6/1/2022	6/15/2022

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

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

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

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 Start Date	Available Maximum Daily Capacity 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 to gather 100% of the anticipated natural gas production volume from the well prior to the date of first production.

XIII. Line Pressure. Operator ☐ does ☐ does not anticipate that its existing well(s) connected to the same segment, or portion, of the natural gas gathering system(s) described above will continue to meet anticipated increases in line pressure caused by the new well(s).

☐ Attach Operator's plan to manage production in response to the increased line pressure.

XIV. Confidentiality: ☐ Operator asserts confidentiality pursuant to Section 71-2-8 NMSA 1978 for the information provided 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 for which confidentiality is asserted and the basis for such assertion.

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:

- (a) power generation on lease;
- (b) power generation for grid;
- (c) compression on lease;
- (d) liquids removal on lease;
- (e) reinjection for underground storage;
- (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

(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: <i>Delilah Flores</i>
Printed Name: Delilah Flores
Title: Regulatory Technician I
E-mail Address: regulatory@redwoodoperating.com
Date: 1/25/2022
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
 - 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
 - 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
 - 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 12 #5H, Plan 1

Operator Redwood Operating LLC	Units feet, °/100ft	16:49 Tuesday, January 04, 2022 Page 1 of 5
Field	County Eddy	Vertical Section Azimuth 270.05
Well Name Brainard 12 #5H	State New Mexico	Survey Calculation Method Minimum Curvature
Plan 1	Country USA	Database Access
Location SL: 2000 FSL & 2070 FWL Section 12-T18S-R26E BHL: 2310 FSL & 1 FWL Section 11-T18S-R26E	Map Zone UTM	Lat Long Ref
Site	Surface X 1844234.2	Surface Long
Slot Name	Surface Y 11892125.5	Surface Lat
Well Number 5H	Surface Z 3306.5	Global Z Ref KB
Project	Ground Level 3288.5	Local North Ref Grid

DIRECTIONAL WELL PLAN

MD*	INC*	AZI*	TVD*	N*	E*	DLS*	V. S.*	MapE*	MapN*	SysTVD*
ft	deg	deg	ft	ft	ft	°/100ft	ft	ft	ft	ft
*** TIE (at MD = 2353.00)										
2353.00	0.00	0.0	2353.00	0.00	0.00		0.00	1844234.20	11892125.50	953.50
2400.00	0.00	0.0	2400.00	0.00	0.00	0.00	0.00	1844234.20	11892125.50	906.50
2450.00	0.00	0.0	2450.00	0.00	0.00	0.00	0.00	1844234.20	11892125.50	856.50
*** KOP 8 DEGREES (at MD = 2453.00)										
2453.00	0.00	0.0	2453.00	0.00	0.00	0.00	0.00	1844234.20	11892125.50	853.50
2500.00	3.76	296.5	2499.97	0.69	-1.38	8.00	1.38	1844232.82	11892126.19	806.53
2550.00	7.76	296.5	2549.70	2.93	-5.87	8.00	5.87	1844228.33	11892128.43	756.80
2600.00	11.76	296.5	2598.97	6.71	-13.45	8.00	13.46	1844220.75	11892132.21	707.53
2650.00	15.76	296.5	2647.53	12.01	-24.09	8.00	24.11	1844210.11	11892137.51	658.97
2700.00	19.76	296.5	2695.13	18.82	-37.74	8.00	37.76	1844196.46	11892144.32	611.37
2750.00	23.76	296.5	2741.56	27.09	-54.33	8.00	54.35	1844179.87	11892152.59	564.94
2800.00	27.76	296.5	2786.58	36.78	-73.77	8.00	73.80	1844160.43	11892162.28	519.92
2850.00	31.76	296.5	2829.98	47.85	-95.98	8.00	96.02	1844138.22	11892173.35	476.52
2900.00	35.76	296.5	2871.54	60.25	-120.84	8.00	120.89	1844113.36	11892185.75	434.96
2950.00	39.76	296.5	2911.06	73.91	-148.23	8.00	148.30	1844085.97	11892199.41	395.44
3000.00	43.76	296.5	2948.35	88.76	-178.03	8.00	178.11	1844056.17	11892214.26	358.15
3050.00	47.76	296.5	2983.23	104.74	-210.08	8.00	210.17	1844024.12	11892230.24	323.27
3100.00	51.76	296.5	3015.52	121.77	-244.23	8.00	244.34	1843989.97	11892247.27	290.98
*** 55 DEGREE TANGENT (at MD = 3140.50)										
3140.50	55.00	296.5	3039.67	136.27	-273.32	8.00	273.43	1843960.88	11892261.77	266.83
3150.00	55.00	296.5	3045.12	139.74	-280.28	0.00	280.40	1843953.92	11892265.24	261.38
3200.00	55.00	296.5	3073.80	158.02	-316.93	0.00	317.07	1843917.27	11892283.52	232.70
3250.00	55.00	296.5	3102.48	176.29	-353.59	0.00	353.74	1843880.61	11892301.79	204.02
3300.00	55.00	296.5	3131.16	194.57	-390.24	0.00	390.41	1843843.96	11892320.07	175.34
3350.00	55.00	296.5	3159.84	212.84	-426.90	0.00	427.08	1843807.30	11892338.34	146.66
*** 10 DEGREE BUILD (at MD = 3390.50)										
3390.50	55.00	296.5	3183.07	227.65	-456.59	0.00	456.79	1843777.61	11892353.15	123.43
3400.00	55.72	295.7	3188.47	231.09	-463.61	10.00	463.81	1843770.59	11892356.59	118.03
3450.00	59.58	292.0	3215.22	248.15	-502.23	10.00	502.44	1843731.97	11892373.65	91.28
3500.00	63.55	288.5	3239.03	263.34	-543.47	10.00	543.70	1843690.73	11892388.84	67.47
3550.00	67.59	285.3	3259.71	276.55	-587.01	10.00	587.25	1843647.19	11892402.05	46.79
3600.00	71.69	282.2	3277.11	287.68	-632.53	10.00	632.78	1843601.67	11892413.18	29.39
3650.00	75.84	279.3	3291.08	296.65	-679.68	10.00	679.93	1843554.52	11892422.15	15.42
3700.00	80.02	276.5	3301.54	303.38	-728.09	10.00	728.35	1843506.11	11892428.88	4.96
3750.00	84.23	273.8	3308.39	307.82	-777.40	10.00	777.67	1843456.80	11892433.32	-1.89
3800.00	88.44	271.1	3311.59	309.95	-827.24	10.00	827.51	1843406.96	11892435.45	-5.09
*** LANDING POINT (at MD = 3819.62)										
3819.62	90.10	270.1	3311.84	310.15	-846.85	10.00	847.12	1843387.35	11892435.65	-5.34

Brainard 12 #5H, Plan 1

Operator	Redwood Operating LLC			Units	feet, °/100ft		16:49 Tuesday, January 04, 2022 Page 2 of 5				
Field				County	Eddy		Vertical Section Azimuth 270.05				
Well Name	Brainard 12 #5H			State	New Mexico		Survey Calculation Method Minimum Curvature				
Plan	1			Country	USA		Database Access				
Location		SL: 2000 FSL & 2070 FWL Section 12-T18S-R26E BHL: 2310 FSL & 1 FWL Section 11-T18S-R26E				Map Zone		UTM		Lat Long Ref	
Site						Surface X		1844234.2		Surface Long	
Slot Name						Surface Y		11892125.5		Surface Lat	
Well Number		5H		API		Surface Z		3306.5		Global Z Ref KB	
Project				MD/TVD Ref KB		Ground Level		3288.5		Local North Ref Grid	
DIRECTIONAL WELL PLAN											
MD*	INC*	AZI*	TVD*	N*	E*	DLS*	V. S.*	MapE*	MapN*	SysTVD*	
ft	deg	deg	ft	ft	ft	°/100ft	ft	ft	ft	ft	
3850.00	90.10	270.1	3311.78	310.18	-877.23	0.00	877.50	1843356.97	11892435.68	-5.28	
3900.00	90.10	270.1	3311.70	310.22	-927.23	0.00	927.50	1843306.97	11892435.72	-5.20	
3950.00	90.10	270.1	3311.61	310.26	-977.23	0.00	977.50	1843256.97	11892435.76	-5.11	
4000.00	90.10	270.1	3311.52	310.31	-1027.23	0.00	1027.50	1843206.97	11892435.81	-5.02	
4050.00	90.10	270.1	3311.43	310.35	-1077.23	0.00	1077.50	1843156.97	11892435.85	-4.93	
4100.00	90.10	270.1	3311.35	310.39	-1127.23	0.00	1127.50	1843106.97	11892435.89	-4.85	
4150.00	90.10	270.1	3311.26	310.44	-1177.23	0.00	1177.50	1843056.97	11892435.94	-4.76	
4200.00	90.10	270.1	3311.17	310.48	-1227.23	0.00	1227.50	1843006.97	11892435.98	-4.67	
4250.00	90.10	270.1	3311.08	310.52	-1277.23	0.00	1277.50	1842956.97	11892436.02	-4.58	
4300.00	90.10	270.1	3311.00	310.57	-1327.23	0.00	1327.50	1842906.97	11892436.07	-4.50	
4350.00	90.10	270.1	3310.91	310.61	-1377.23	0.00	1377.50	1842856.97	11892436.11	-4.41	
4400.00	90.10	270.1	3310.82	310.66	-1427.23	0.00	1427.50	1842806.97	11892436.16	-4.32	
4450.00	90.10	270.1	3310.74	310.70	-1477.23	0.00	1477.50	1842756.97	11892436.20	-4.24	
4500.00	90.10	270.1	3310.65	310.74	-1527.23	0.00	1527.50	1842706.97	11892436.24	-4.15	
4550.00	90.10	270.1	3310.56	310.79	-1577.23	0.00	1577.50	1842656.97	11892436.29	-4.06	
4600.00	90.10	270.1	3310.47	310.83	-1627.23	0.00	1627.50	1842606.97	11892436.33	-3.97	
4650.00	90.10	270.1	3310.39	310.87	-1677.23	0.00	1677.50	1842556.97	11892436.37	-3.89	
4700.00	90.10	270.1	3310.30	310.92	-1727.23	0.00	1727.50	1842506.97	11892436.42	-3.80	
4750.00	90.10	270.1	3310.21	310.96	-1777.23	0.00	1777.50	1842456.97	11892436.46	-3.71	
4800.00	90.10	270.1	3310.12	311.00	-1827.23	0.00	1827.50	1842406.97	11892436.50	-3.62	
4850.00	90.10	270.1	3310.04	311.05	-1877.23	0.00	1877.50	1842356.97	11892436.55	-3.54	
4900.00	90.10	270.1	3309.95	311.09	-1927.23	0.00	1927.50	1842306.97	11892436.59	-3.45	
4950.00	90.10	270.1	3309.86	311.14	-1977.23	0.00	1977.50	1842256.97	11892436.64	-3.36	
5000.00	90.10	270.1	3309.78	311.18	-2027.23	0.00	2027.50	1842206.97	11892436.68	-3.28	
5050.00	90.10	270.1	3309.69	311.22	-2077.23	0.00	2077.50	1842156.97	11892436.72	-3.19	
5100.00	90.10	270.1	3309.60	311.27	-2127.23	0.00	2127.50	1842106.97	11892436.77	-3.10	
5150.00	90.10	270.1	3309.51	311.31	-2177.23	0.00	2177.50	1842056.97	11892436.81	-3.01	
5200.00	90.10	270.1	3309.43	311.35	-2227.23	0.00	2227.50	1842006.97	11892436.85	-2.93	
5250.00	90.10	270.1	3309.34	311.40	-2277.23	0.00	2277.50	1841956.97	11892436.90	-2.84	
5300.00	90.10	270.1	3309.25	311.44	-2327.23	0.00	2327.50	1841906.97	11892436.94	-2.75	
5350.00	90.10	270.1	3309.16	311.48	-2377.23	0.00	2377.50	1841856.97	11892436.98	-2.66	
5400.00	90.10	270.1	3309.08	311.53	-2427.23	0.00	2427.50	1841806.97	11892437.03	-2.58	
5450.00	90.10	270.1	3308.99	311.57	-2477.23	0.00	2477.50	1841756.97	11892437.07	-2.49	
5500.00	90.10	270.1	3308.90	311.61	-2527.23	0.00	2527.50	1841706.97	11892437.11	-2.40	
5550.00	90.10	270.1	3308.82	311.66	-2577.23	0.00	2577.50	1841656.97	11892437.16	-2.32	
5600.00	90.10	270.1	3308.73	311.70	-2627.23	0.00	2627.50	1841606.97	11892437.20	-2.23	
5650.00	90.10	270.1	3308.64	311.75	-2677.23	0.00	2677.50	1841556.97	11892437.25	-2.14	

Brainard 12 #5H, Plan 1

Operator	Redwood Operating LLC	Units	feet, °/100ft	16:49 Tuesday, January 04, 2022	Page 3 of 5
Field		County	Eddy	Vertical Section Azimuth	270.05
Well Name	Brainard 12 #5H	State	New Mexico	Survey Calculation Method	Minimum Curvature
Plan	1	Country	USA	Database	Access
Location	SL: 2000 FSL & 2070 FWL Section 12-T18S-R26E BHL: 2310 FSL & 1 FWL Section 11-T18S-R26E			Map Zone	UTM
Site		Surface X	1844234.2	Surface Long	
Slot Name		Surface Y	11892125.5	Surface Lat	
Well Number	5H	Surface Z	3306.5	Global Z Ref	KB
Project		MD/TVD Ref	KB	Ground Level	3288.5
				Local North Ref	Grid

DIRECTIONAL WELL PLAN

MD*	INC*	AZI*	TVD*	N*	E*	DLS*	V. S.*	MapE*	MapN*	SysTVD*
ft	deg	deg	ft	ft	ft	°/100ft	ft	ft	ft	ft
5700.00	90.10	270.1	3308.55	311.79	-2727.23	0.00	2727.50	1841506.97	11892437.29	-2.05
5750.00	90.10	270.1	3308.47	311.83	-2777.23	0.00	2777.50	1841456.97	11892437.33	-1.97
5800.00	90.10	270.1	3308.38	311.88	-2827.23	0.00	2827.50	1841406.97	11892437.38	-1.88
5850.00	90.10	270.1	3308.29	311.92	-2877.23	0.00	2877.50	1841356.97	11892437.42	-1.79
5900.00	90.10	270.1	3308.21	311.96	-2927.23	0.00	2927.50	1841306.97	11892437.46	-1.70
5950.00	90.10	270.1	3308.12	312.01	-2977.23	0.00	2977.50	1841256.97	11892437.51	-1.62
6000.00	90.10	270.1	3308.03	312.05	-3027.23	0.00	3027.50	1841206.97	11892437.55	-1.53
6050.00	90.10	270.1	3307.94	312.09	-3077.23	0.00	3077.50	1841156.97	11892437.59	-1.44
6100.00	90.10	270.1	3307.86	312.14	-3127.23	0.00	3127.50	1841106.97	11892437.64	-1.36
6150.00	90.10	270.1	3307.77	312.18	-3177.23	0.00	3177.50	1841056.97	11892437.68	-1.27
6200.00	90.10	270.1	3307.68	312.23	-3227.23	0.00	3227.50	1841006.97	11892437.73	-1.18
6250.00	90.10	270.1	3307.59	312.27	-3277.23	0.00	3277.50	1840956.97	11892437.77	-1.09
6300.00	90.10	270.1	3307.51	312.31	-3327.23	0.00	3327.50	1840906.97	11892437.81	-1.01
6350.00	90.10	270.1	3307.42	312.36	-3377.23	0.00	3377.50	1840856.97	11892437.86	-0.92
6400.00	90.10	270.1	3307.33	312.40	-3427.23	0.00	3427.50	1840806.97	11892437.90	-0.83
6450.00	90.10	270.1	3307.25	312.44	-3477.23	0.00	3477.50	1840756.97	11892437.94	-0.74
6500.00	90.10	270.1	3307.16	312.49	-3527.23	0.00	3527.50	1840706.97	11892437.99	-0.66
6550.00	90.10	270.1	3307.07	312.53	-3577.23	0.00	3577.50	1840656.97	11892438.03	-0.57
6600.00	90.10	270.1	3306.98	312.57	-3627.23	0.00	3627.50	1840606.97	11892438.07	-0.48
6650.00	90.10	270.1	3306.90	312.62	-3677.23	0.00	3677.50	1840556.97	11892438.12	-0.40
6700.00	90.10	270.1	3306.81	312.66	-3727.23	0.00	3727.50	1840506.97	11892438.16	-0.31
6750.00	90.10	270.1	3306.72	312.71	-3777.23	0.00	3777.50	1840456.97	11892438.21	-0.22
6800.00	90.10	270.1	3306.63	312.75	-3827.23	0.00	3827.50	1840406.97	11892438.25	-0.13
6850.00	90.10	270.1	3306.55	312.79	-3877.23	0.00	3877.50	1840356.97	11892438.29	-0.05
6900.00	90.10	270.1	3306.46	312.84	-3927.23	0.00	3927.50	1840306.97	11892438.34	0.04
6950.00	90.10	270.1	3306.37	312.88	-3977.23	0.00	3977.50	1840256.97	11892438.38	0.13
7000.00	90.10	270.1	3306.29	312.92	-4027.23	0.00	4027.50	1840206.97	11892438.42	0.21
7050.00	90.10	270.1	3306.20	312.97	-4077.23	0.00	4077.50	1840156.97	11892438.47	0.30
7100.00	90.10	270.1	3306.11	313.01	-4127.23	0.00	4127.50	1840106.97	11892438.51	0.39
7150.00	90.10	270.1	3306.02	313.05	-4177.23	0.00	4177.50	1840056.97	11892438.55	0.48
7200.00	90.10	270.1	3305.94	313.10	-4227.23	0.00	4227.50	1840006.97	11892438.60	0.56
7250.00	90.10	270.1	3305.85	313.14	-4277.23	0.00	4277.50	1839956.97	11892438.64	0.65
7300.00	90.10	270.1	3305.76	313.19	-4327.23	0.00	4327.50	1839906.97	11892438.69	0.74
7350.00	90.10	270.1	3305.67	313.23	-4377.23	0.00	4377.50	1839856.97	11892438.73	0.83
7400.00	90.10	270.1	3305.59	313.27	-4427.23	0.00	4427.50	1839806.97	11892438.77	0.91
7450.00	90.10	270.1	3305.50	313.32	-4477.23	0.00	4477.50	1839756.97	11892438.82	1.00
7500.00	90.10	270.1	3305.41	313.36	-4527.23	0.00	4527.50	1839706.97	11892438.86	1.09
7550.00	90.10	270.1	3305.33	313.40	-4577.23	0.00	4577.50	1839656.97	11892438.90	1.17

Brainard 12 #5H, Plan 1

Operator Redwood Operating LLC	Units feet, °/100ft	16:49 Tuesday, January 04, 2022 Page 4 of 5
Field	County Eddy	Vertical Section Azimuth 270.05
Well Name Brainard 12 #5H	State New Mexico	Survey Calculation Method Minimum Curvature
Plan 1	Country USA	Database Access
Location SL: 2000 FSL & 2070 FWL Section 12-T18S-R26E BHL: 2310 FSL & 1 FWL Section 11-T18S-R26E	Map Zone UTM	Lat Long Ref
Site	Surface X 1844234.2	Surface Long
Slot Name	Surface Y 11892125.5	Surface Lat
Well Number 5H	Surface Z 3306.5	Global Z Ref KB
Project	Ground Level 3288.5	Local North Ref Grid

DIRECTIONAL WELL PLAN

MD*	INC*	AZI*	TVD*	N*	E*	DLS*	V. S.*	MapE*	MapN*	SysTVD*
ft	deg	deg	ft	ft	ft	°/100ft	ft	ft	ft	ft
7600.00	90.10	270.1	3305.24	313.45	-4627.23	0.00	4627.50	1839606.97	11892438.95	1.26
7650.00	90.10	270.1	3305.15	313.49	-4677.23	0.00	4677.50	1839556.97	11892438.99	1.35
7700.00	90.10	270.1	3305.06	313.53	-4727.23	0.00	4727.50	1839506.97	11892439.03	1.44
7750.00	90.10	270.1	3304.98	313.58	-4777.23	0.00	4777.50	1839456.97	11892439.08	1.52
7800.00	90.10	270.1	3304.89	313.62	-4827.23	0.00	4827.50	1839406.97	11892439.12	1.61
7850.00	90.10	270.1	3304.80	313.67	-4877.23	0.00	4877.50	1839356.97	11892439.17	1.70
7900.00	90.10	270.1	3304.71	313.71	-4927.23	0.00	4927.50	1839306.97	11892439.21	1.79
7950.00	90.10	270.1	3304.63	313.75	-4977.23	0.00	4977.50	1839256.97	11892439.25	1.87
8000.00	90.10	270.1	3304.54	313.80	-5027.23	0.00	5027.50	1839206.97	11892439.30	1.96
8050.00	90.10	270.1	3304.45	313.84	-5077.23	0.00	5077.50	1839156.97	11892439.34	2.05
8100.00	90.10	270.1	3304.37	313.88	-5127.23	0.00	5127.50	1839106.97	11892439.38	2.13
8150.00	90.10	270.1	3304.28	313.93	-5177.23	0.00	5177.50	1839056.97	11892439.43	2.22
8200.00	90.10	270.1	3304.19	313.97	-5227.23	0.00	5227.50	1839006.97	11892439.47	2.31
8250.00	90.10	270.1	3304.10	314.01	-5277.23	0.00	5277.50	1838956.97	11892439.51	2.40
8300.00	90.10	270.1	3304.02	314.06	-5327.23	0.00	5327.50	1838906.97	11892439.56	2.48
8350.00	90.10	270.1	3303.93	314.10	-5377.23	0.00	5377.50	1838856.97	11892439.60	2.57
8400.00	90.10	270.1	3303.84	314.15	-5427.23	0.00	5427.50	1838806.97	11892439.65	2.66
8450.00	90.10	270.1	3303.75	314.19	-5477.23	0.00	5477.50	1838756.97	11892439.69	2.75
8500.00	90.10	270.1	3303.67	314.23	-5527.23	0.00	5527.50	1838706.97	11892439.73	2.83
8550.00	90.10	270.1	3303.58	314.28	-5577.23	0.00	5577.50	1838656.97	11892439.78	2.92
8600.00	90.10	270.1	3303.49	314.32	-5627.23	0.00	5627.50	1838606.97	11892439.82	3.01
8650.00	90.10	270.1	3303.41	314.36	-5677.23	0.00	5677.50	1838556.97	11892439.86	3.09
8700.00	90.10	270.1	3303.32	314.41	-5727.23	0.00	5727.50	1838506.98	11892439.91	3.18
8750.00	90.10	270.1	3303.23	314.45	-5777.22	0.00	5777.50	1838456.98	11892439.95	3.27
8800.00	90.10	270.1	3303.14	314.49	-5827.22	0.00	5827.50	1838406.98	11892439.99	3.36
8850.00	90.10	270.1	3303.06	314.54	-5877.22	0.00	5877.50	1838356.98	11892440.04	3.44
8900.00	90.10	270.1	3302.97	314.58	-5927.22	0.00	5927.50	1838306.98	11892440.08	3.53
8950.00	90.10	270.1	3302.88	314.63	-5977.22	0.00	5977.50	1838256.98	11892440.13	3.62
9000.00	90.10	270.1	3302.79	314.67	-6027.22	0.00	6027.50	1838206.98	11892440.17	3.71
9050.00	90.10	270.1	3302.71	314.71	-6077.22	0.00	6077.50	1838156.98	11892440.21	3.79
9100.00	90.10	270.1	3302.62	314.76	-6127.22	0.00	6127.50	1838106.98	11892440.26	3.88
9150.00	90.10	270.1	3302.53	314.80	-6177.22	0.00	6177.50	1838056.98	11892440.30	3.97
9200.00	90.10	270.1	3302.45	314.84	-6227.22	0.00	6227.50	1838006.98	11892440.34	4.05
9250.00	90.10	270.1	3302.36	314.89	-6277.22	0.00	6277.50	1837956.98	11892440.39	4.14
9300.00	90.10	270.1	3302.27	314.93	-6327.22	0.00	6327.50	1837906.98	11892440.43	4.23
9350.00	90.10	270.1	3302.18	314.97	-6377.22	0.00	6377.50	1837856.98	11892440.47	4.32
9400.00	90.10	270.1	3302.10	315.02	-6427.22	0.00	6427.50	1837806.98	11892440.52	4.40

Brainard 12 #5H, Plan 1

Operator Redwood Operating LLC	Units feet, °/100ft	16:49 Tuesday, January 04, 2022 Page 5 of 5
Field	County Eddy	Vertical Section Azimuth 270.05
Well Name Brainard 12 #5H	State New Mexico	Survey Calculation Method Minimum Curvature
Plan 1	Country USA	Database Access
Location SL: 2000 FSL & 2070 FWL Section 12-T18S-R26E BHL: 2310 FSL & 1 FWL Section 11-T18S-R26E	Map Zone UTM	Lat Long Ref
Site	Surface X 1844234.2	Surface Long
Slot Name	Surface Y 11892125.5	Surface Lat
Well Number 5H	Surface Z 3306.5	Global Z Ref KB
Project	Ground Level 3288.5	Local North Ref Grid
UWI		
API		
MD/TVD Ref KB		

DIRECTIONAL WELL PLAN

MD*	INC*	AZI*	TVD*	N*	E*	DLS*	V. S.*	MapE*	MapN*	SysTVD*
ft	deg	deg	ft	ft	ft	°/100ft	ft	ft	ft	ft
9450.00	90.10	270.1	3302.01	315.06	-6477.22	0.00	6477.50	1837756.98	11892440.56	4.49
9500.00	90.10	270.1	3301.92	315.11	-6527.22	0.00	6527.50	1837706.98	11892440.61	4.58
9550.00	90.10	270.1	3301.83	315.15	-6577.22	0.00	6577.50	1837656.98	11892440.65	4.67
9600.00	90.10	270.1	3301.75	315.19	-6627.22	0.00	6627.50	1837606.98	11892440.69	4.75
9650.00	90.10	270.1	3301.66	315.24	-6677.22	0.00	6677.50	1837556.98	11892440.74	4.84
9700.00	90.10	270.1	3301.57	315.28	-6727.22	0.00	6727.50	1837506.98	11892440.78	4.93
9750.00	90.10	270.1	3301.49	315.32	-6777.22	0.00	6777.50	1837456.98	11892440.82	5.01
9800.00	90.10	270.1	3301.40	315.37	-6827.22	0.00	6827.50	1837406.98	11892440.87	5.10
9850.00	90.10	270.1	3301.31	315.41	-6877.22	0.00	6877.50	1837356.98	11892440.91	5.19
9900.00	90.10	270.1	3301.22	315.45	-6927.22	0.00	6927.50	1837306.98	11892440.95	5.28
9950.00	90.10	270.1	3301.14	315.50	-6977.22	0.00	6977.50	1837256.98	11892441.00	5.36
10000.00	90.10	270.1	3301.05	315.54	-7027.22	0.00	7027.50	1837206.98	11892441.04	5.45
10050.00	90.10	270.1	3300.96	315.59	-7077.22	0.00	7077.50	1837156.98	11892441.09	5.54
10100.00	90.10	270.1	3300.87	315.63	-7127.22	0.00	7127.50	1837106.98	11892441.13	5.63
10150.00	90.10	270.1	3300.79	315.67	-7177.22	0.00	7177.50	1837056.98	11892441.17	5.71
10200.00	90.10	270.1	3300.70	315.72	-7227.22	0.00	7227.49	1837006.98	11892441.22	5.80
10250.00	90.10	270.1	3300.61	315.76	-7277.22	0.00	7277.49	1836956.98	11892441.26	5.89
10300.00	90.10	270.1	3300.53	315.80	-7327.22	0.00	7327.49	1836906.98	11892441.30	5.97
*** TD (at MD = 10345.62)										
10345.62	90.10	270.1	3300.45	315.84	-7372.84	0.00	7373.11	1836861.36	11892441.34	6.05