

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RECEIVED

MAR 11 2020

FORM APPROVED
OMB NO. 1004-0137
Expires: January 31, 2018**SUNDRY NOTICES AND REPORTS ON WELLS**
Do not use this form for proposals to drill, recomplete, or plug and abandon a well. Use form 3160-3 (APD) for such proposals.5. Lease Serial No.
NMNM121473

6. If Indian, Allottee or Tribe Name

SUBMIT IN TRIPLICATE - Other instructions on page 27. If Unit or CA/Agreement, Name and/or No.
NMNM137168X

1. Type of Well

☐ Oil Well ☒ Gas Well ☐ Other8. Well Name and No.
CICADA UNIT 29H

2. Name of Operator

CHEVRON USA INCORPORATED

Contact: LAURA BECERRA

E-Mail: LBECCERRA@CHEVRON.COM

9. API Well No.
30-015-46470-00-X1

3a. Address

6301 DEAUVILLE BLVD
MIDLAND, TX 79706

3b. Phone No. (include area code)

Ph: 432-687-7665

10. Field and Pool or Exploratory Area
PURPLE SAGE-WOLFCAMP (GAS)

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

Sec 3 T26S R27E SWSE 835FSL 1550FEL
32.066181 N Lat, 104.174866 W Lon

11. County or Parish, State

EDDY COUNTY, NM

12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
☒ Notice of Intent	☐ Acidize	☐ Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off
☐ Subsequent Report	☐ Alter Casing	☐ Hydraulic Fracturing	☐ Reclamation	☐ Well Integrity
☐ Final Abandonment Notice	☐ Casing Repair	☐ New Construction	☐ Recomplete	☒ Other
	☐ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	Change to Original A
	☐ Convert to Injection	☐ Plug Back	☐ Water Disposal	PD

13. Describe Proposed or Completed Operation: Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has determined that the site is ready for final inspection.

Chevron USA respectfully requests the following changes to the originally proposed FTP, LPT, BHL and target TVD:

FROM:

FTP: 330' FNL, 792' FEL; LTP: 330' FSL, 792' FEL; BHL: 50' FSL, 792' FEL

TO:

FTP: 330' FNL, 1,254' FEL; LTP: 330' FSL, 1,254' FEL; BHL: 50' FSL, 1,254' FEL

TVD:

14. I hereby certify that the foregoing is true and correct.

Electronic Submission #501487 verified by the BLM Well Information System
For CHEVRON USA INCORPORATED, sent to the Carlsbad
Committed to AFMSS for processing by PRISCILLA PEREZ on 02/03/2020 (20PP1066SE)

Name (Printed/Typed) LAURA BECERRA

Title REGULATORY SPECIALIST

Signature (Electronic Submission)

Date 01/30/2020

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By NDUNGU KAMAU

Title PETROLEUM ENGINEER

Date 03/03/2020

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office Carlsbad

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Instructions on page 2)

** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED **

RW 3-18-20

Additional data for EC transaction #501487 that would not fit on the form

32. Additional remarks, continued

FROM: 9,055' TO: 9,278'

Copies of the revised certified well plat and directional survey are attached.

Delaware Basin

Changes to APD/COA for Federal Well



Well Names:

Well Name		API
Cicada Unit	29H	30-015-46470

Rig: Patterson 257

CVX CONTACT:

Hannah Wardo
Drilling and Completions Engineer

MidContinent Business Unit
Chevron North America Exploration & Production
1400 Smith St, Rm 43-174, Houston, TX 77002
Mobile: 832.963.9814
Office: 713.372.9032
Email: Hannah.Wardo@chevron.com

Summary of Changes to APD Submission

Cicada Unit 29H - Original

PROPOSED FIRST TAKE POINT

X= 549,993'
NAD 27 Y= 386,618'
LAT. 32.062826° N
LONG. 104.171954° W

PROPOSED MID POINT

X= 550,152'
NAD 27 Y= 381,668'
LAT. 32.049216° N
LONG. 104.171465° W

PROPOSED LAST TAKE POINT

X= 550,150'
NAD 27 Y= 376,718'
LAT. 32.035609° N
LONG. 104.171494° W

PROPOSED BOTTOM HOLE LOCATION

X= 550,150'
NAD 27 Y= 376,438'
LAT. 32.034839° N
LONG. 104.171496° W

Target formation = WCA_TGT3
Target TVD = 9,055'

Cicada Unit 29H - NEW

PROPOSED FIRST TAKE POINT

X= 549,530'
NAD 27 Y= 386,625'
LAT. 32.062845° N
LONG. 104.173447° W

PROPOSED MID POINT

X= 549,690'
NAD 27 Y= 381,672'
LAT. 32.049230° N
LONG. 104.172956° W

PROPOSED LAST TAKE POINT

X= 549,688'
NAD 27 Y= 376,721'
LAT. 32.035618° N
LONG. 104.173447° W

PROPOSED BOTTOM HOLE LOCATION

X= 549,688'
NAD 27 Y= 376,441'
LAT. 32.034849° N
LONG. 104.172987° W

Target formation = WCA_TGT1
Target TVD = 9,278'

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 Road, Aztec, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 476-3460 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
Revised Take Points

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-015-46470	² Pool Code 98220	³ Pool Name PURPLE SAGE; WOLFCAMP(GAS)
⁴ Property Code 325142	⁵ Property Name CICADA UNIT	⁶ Well Number 29H
⁷ OGRID No. 4323	⁸ Operator Name CHEVRON U.S.A. INC.	⁹ Elevation 3254'

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
O	3	26 SOUTH	27 EAST, N.M.P.M.		835'	SOUTH	1550'	EAST	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
P	15	26 SOUTH	27 EAST, N.M.P.M.		50'	SOUTH	1254'	EAST	EDDY

¹² Dedicated Acres 640	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No. R-14459
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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.

¹⁶ PROPOSED FIRST TAKE POINT X= 549,530' Y= 386,625' LAT. 32.062845° N LONG. 104.173447° W NAD 27 PROPOSED MID POINT X= 549,690' Y= 381,672' LAT. 32.049230° N LONG. 104.172956° W NAD 27 PROPOSED LAST TAKE POINT X= 549,688' Y= 376,721' LAT. 32.035618° N LONG. 104.172985° W NAD 27 CORNER COORDINATES TABLE (NAD 27) A - Y=392448.13, X=550882.93 B - Y=387009.20, X=545492.91 C - Y=386937.82, X=550774.76 D - Y=381711.59, X=545622.05 E - Y=381659.95, X=550943.63 F - Y=376414.09, X=545653.53 G - Y=376383.44, X=550941.76 PROPOSED BOTTOM HOLE LOCATION X= 549,688' Y= 376,441' LAT. 32.034849° N LONG. 104.172987° W NAD 27 X= 590,872' Y= 376,498' LAT. 32.034971° N LONG. 104.173478° W NAD 83/86	CICADA UNIT NO. 29H WELL X= 549,241' Y= 387,794' LAT. 32.066060° N LONG. 104.174374° W NAD 27 X= 590,425' Y= 387,851' LAT. 32.066182° N LONG. 104.174866° W NAD 83/86 ELEV. +3254' NAVD88 Proposed First Take Point 330' FNL, 1254' FEL Proposed Last Take Point 330' FSL, 1254' FEL	¹⁷ OPERATOR CERTIFICATION 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. Signature: <i>Laura Becerra</i> Date: 1/29/2020 Printed Name: Laura Becerra E-mail Address: LBecerra@Chevron.com ¹⁸ SURVEYOR CERTIFICATION 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. 07/18/2017 Date of Survey Signature and Seal of Professional Surveyor: <i>Steven M. Coleman</i> 22921 Certificate Number 01/24/2020
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RWP 3-18-20

PLANNED WELLPATH REPORT (CSV version)

Prepared by Baker Hughes

Software System: WellArchitect® 6.0

REFERENCE WELLPATH IDENTIFICATION

Operator Chevron U.S.A. Inc.

Area Eddy County, NM

Field Purple Sage, Wolfcamp (Eddy Co., NM) NAD 27

Facility HNM 26 27 Pkg 9 Pad 9

Slot Cicada Unit No. 29H

Well Cicada Unit No. 29H

API/Legal

Wellbore Cicada Unit No. 29H PWB

Wellpath Cicada Unit No. 29H Rev-A.0

Sidetrack (none)

REPORT SETUP INFORMATION

Projection System NAD27 / TM New Mexico SP, Eastern Zone (3001), US feet

North Reference Grid

Scale 0.999912

Convergence at slot 0.09° East

Software System WellArchitect® 6.0

User Moyagusa

Report Generated 29/Jan/2020 at 15:29

DataBase/Source file WA_HOU_Midland_Defn/ev00.xml

WELLPATH LOCATION	Local North [ft]	Local East [ft]	Easting [US ft]	Northing [US ft]	Latitude	Longitude
Slot Location	-50	-1	549241	387794	32°03'57.8210"N	104°10'27.7489"W
Facility Reference Pt			549242	387844	32°03'58.3158"N	104°10'27.7364"W
Field Reference Pt			152400.3	0	30°59'42.8458"N	105°26'33.6593"W

WELLPATH DATUM

Calculation method Minimum curvature

Horizontal Reference Point Slot

Vertical Reference Point Patterson 257 (KB)

MD Reference Point Patterson 257 (KB)

Field Vertical Reference Mean Sea Level

Patterson 257 (KB) to Facility Vertical Datum 3282.00ft

Patterson 257 (KB) to Mean Sea Level 3282.00ft

Patterson 257 (KB) to Ground Level at Slot (Cicada Unit No. 29H) 28.00ft

Section Origin N 0.00, E 0.00 ft

Section Azimuth 180.04°

WELLPATH DATA † = interpolated, # = extrapolated station

	MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	DLS [°/100ft]	Build Rate [°/100ft]	Turn Rate [°/100ft]	Comments
†	0	0	155.603	0	0	0	0	549241	387794	32°03'57.8210"N	104°10'27.7489"W	0	0	0	
	28	0	155.603	28	0	0	0	549241	387794	32°03'57.8210"N	104°10'27.7489"W	0	0	0	Tie On
†	128	0	155.603	128	0	0	0	549241	387794	32°03'57.8210"N	104°10'27.7489"W	0	0	0	
†	228	0	155.603	228	0	0	0	549241	387794	32°03'57.8210"N	104°10'27.7489"W	0	0	0	
†	328	0	155.603	328	0	0	0	549241	387794	32°03'57.8210"N	104°10'27.7489"W	0	0	0	
†	428	0	155.603	428	0	0	0	549241	387794	32°03'57.8210"N	104°10'27.7489"W	0	0	0	
†	528	0	155.603	528	0	0	0	549241	387794	32°03'57.8210"N	104°10'27.7489"W	0	0	0	
†	628	0	155.603	628	0	0	0	549241	387794	32°03'57.8210"N	104°10'27.7489"W	0	0	0	
†	728	0	155.603	728	0	0	0	549241	387794	32°03'57.8210"N	104°10'27.7489"W	0	0	0	
	750	0	155.603	750	0	0	0	549241	387794	32°03'57.8210"N	104°10'27.7489"W	0	0	0	Start Build
†	828	1.17	155.603	827.99	0.73	-0.73	0.33	549241.3	387793.27	32°03'57.8138"N	104°10'27.7451"W	1.5	1.5	0	
†	928	2.67	155.603	927.94	3.78	-3.78	1.71	549242.7	387790.22	32°03'57.7836"N	104°10'27.7290"W	1.5	1.5	0	
†	1028	4.17	155.603	1027.75	9.21	-9.21	4.18	549245.2	387784.79	32°03'57.7298"N	104°10'27.7005"W	1.5	1.5	0	
†	1128	5.67	155.603	1127.38	17.01	-17.02	7.72	549248.7	387776.98	32°03'57.6524"N	104°10'27.6595"W	1.5	1.5	0	
†	1228	7.17	155.603	1226.75	27.19	-27.2	12.34	549253.3	387766.8	32°03'57.5516"N	104°10'27.6060"W	1.5	1.5	0	
†	1328	8.67	155.603	1325.8	39.74	-39.75	18.03	549259	387754.25	32°03'57.4273"N	104°10'27.5401"W	1.5	1.5	0	
†	1428	10.17	155.603	1424.45	54.64	-54.66	24.79	549265.8	387739.35	32°03'57.2797"N	104°10'27.4617"W	1.5	1.5	0	
†	1528	11.67	155.603	1522.63	71.88	-71.91	32.61	549273.6	387722.1	32°03'57.1089"N	104°10'27.3711"W	1.5	1.5	0	
†	1628	13.17	155.603	1620.29	91.46	-91.49	41.5	549282.5	387702.51	32°03'56.9150"N	104°10'27.2682"W	1.5	1.5	0	
†	1728	14.67	155.603	1717.35	113.37	-113.4	51.43	549292.4	387680.61	32°03'56.6980"N	104°10'27.1531"W	1.5	1.5	0	
	1750	15	155.603	1738.62	118.49	-118.53	53.76	549294.8	387675.48	32°03'56.6472"N	104°10'27.1262"W	1.5	1.5	0	End Build
†	1828	15	155.603	1813.96	136.87	-136.92	62.1	549303.1	387657.1	32°03'56.4652"N	104°10'27.0296"W	0	0	0	
†	1928	15	155.603	1910.55	160.44	-160.49	72.79	549313.8	387633.53	32°03'56.2318"N	104°10'26.9058"W	0	0	0	
†	2028	15	155.603	2007.14	184	-184.06	83.48	549324.5	387609.96	32°03'55.9983"N	104°10'26.7819"W	0	0	0	
	2124.13	15	155.603	2100	206.65	-206.72	93.76	549334.8	387587.3	32°03'55.7740"N	104°10'26.6629"W	0	0	0	9 5/8" Casing
†	2128	15	155.603	2103.74	207.56	-207.63	94.17	549335.2	387586.39	32°03'55.7649"N	104°10'26.6581"W	0	0	0	
†	2228	15	155.603	2200.33	231.13	-231.2	104.86	549345.9	387562.82	32°03'55.5315"N	104°10'26.5343"W	0	0	0	
†	2328	15	155.603	2296.92	254.69	-254.77	115.55	549356.5	387539.25	32°03'55.2981"N	104°10'26.4105"W	0	0	0	
†	2428	15	155.603	2393.51	278.25	-278.34	126.25	549367.2	387515.68	32°03'55.0647"N	104°10'26.2866"W	0	0	0	
†	2528	15	155.603	2490.11	301.82	-301.91	136.94	549377.9	387492.12	32°03'54.8313"N	104°10'26.1628"W	0	0	0	
†	2628	15	155.603	2586.7	325.38	-325.48	147.63	549388.6	387468.55	32°03'54.5979"N	104°10'26.0390"W	0	0	0	
†	2728	15	155.603	2683.29	348.94	-349.05	158.32	549399.3	387444.98	32°03'54.3645"N	104°10'25.9152"W	0	0	0	
†	2828	15	155.603	2779.88	372.51	-372.62	169.01	549410	387421.41	32°03'54.1311"N	104°10'25.7913"W	0	0	0	
†	2928	15	155.603	2876.48	396.07	-396.19	179.7	549420.7	387397.84	32°03'53.8977"N	104°10'25.6675"W	0	0	0	
†	3028	15	155.603	2973.07	419.63	-419.77	190.39	549431.4	387374.27	32°03'53.6643"N	104°10'25.5437"W	0	0	0	
†	3128	15	155.603	3069.66	443.2	-443.34	201.08	549442.1	387350.7	32°03'53.4309"N	104°10'25.4199"W	0	0	0	
†	3228	15	155.603	3166.25	466.76	-466.91	211.77	549452.8	387327.14	32°03'53.1975"N	104°10'25.2960"W	0	0	0	

†	3274.7	15	155.603	3211.37	477.76	-477.91	216.77	549457.8	387316.13	32°03'53.0885"N	104°10'25.2382"W	0	0	0	Rotate/Drop
†	3328	14.201	155.603	3262.94	489.99	-490.15	222.31	549463.3	387303.89	32°03'52.9673"N	104°10'25.1739"W	1.5	-1.5	0	
†	3428	12.701	155.603	3360.2	511.17	-511.33	231.92	549472.9	387282.71	32°03'52.7576"N	104°10'25.0627"W	1.5	-1.5	0	
†	3528	11.201	155.603	3458.03	530.02	-530.19	240.48	549481.5	387263.86	32°03'52.5708"N	104°10'24.9636"W	1.5	-1.5	0	
†	3628	9.701	155.603	3556.36	546.54	-546.71	247.97	549489	387247.34	32°03'52.4073"N	104°10'24.8768"W	1.5	-1.5	0	
†	3728	8.201	155.603	3655.14	560.7	-560.88	254.39	549495.4	387233.17	32°03'52.2670"N	104°10'24.8024"W	1.5	-1.5	0	
†	3828	6.701	155.603	3754.3	572.5	-572.69	259.75	549500.7	387221.37	32°03'52.1500"N	104°10'24.7403"W	1.5	-1.5	0	
†	3928	5.201	155.603	3853.75	581.94	-582.13	264.03	549505	387211.93	32°03'52.0565"N	104°10'24.6908"W	1.5	-1.5	0	
†	4028	3.701	155.603	3953.45	589.01	-589.19	267.24	549508.2	387204.86	32°03'51.9866"N	104°10'24.6536"W	1.5	-1.5	0	
†	4128	2.201	155.603	4053.31	593.69	-593.88	269.36	549510.3	387200.17	32°03'51.9401"N	104°10'24.6290"W	1.5	-1.5	0	
†	4228	0.701	155.603	4153.28	596	-596.19	270.41	549511.4	387197.87	32°03'51.9173"N	104°10'24.6169"W	1.5	-1.5	0	
†	4274.7	0	178.15	4199.98	596.26	-596.45	270.53	549511.5	387197.61	32°03'51.9147"N	104°10'24.6155"W	1.5	-1.5	0	Hold Vertical
†	4328	0	178.15	4253.28	596.26	-596.45	270.53	549511.5	387197.61	32°03'51.9147"N	104°10'24.6155"W	0	0	0	
†	4428	0	178.15	4353.28	596.26	-596.45	270.53	549511.5	387197.61	32°03'51.9147"N	104°10'24.6155"W	0	0	0	
†	4528	0	178.15	4453.28	596.26	-596.45	270.53	549511.5	387197.61	32°03'51.9147"N	104°10'24.6155"W	0	0	0	
†	4628	0	178.15	4553.28	596.26	-596.45	270.53	549511.5	387197.61	32°03'51.9147"N	104°10'24.6155"W	0	0	0	
†	4728	0	178.15	4653.28	596.26	-596.45	270.53	549511.5	387197.61	32°03'51.9147"N	104°10'24.6155"W	0	0	0	
†	4828	0	178.15	4753.28	596.26	-596.45	270.53	549511.5	387197.61	32°03'51.9147"N	104°10'24.6155"W	0	0	0	
†	4928	0	178.15	4853.28	596.26	-596.45	270.53	549511.5	387197.61	32°03'51.9147"N	104°10'24.6155"W	0	0	0	
†	5028	0	178.15	4953.28	596.26	-596.45	270.53	549511.5	387197.61	32°03'51.9147"N	104°10'24.6155"W	0	0	0	
†	5128	0	178.15	5053.28	596.26	-596.45	270.53	549511.5	387197.61	32°03'51.9147"N	104°10'24.6155"W	0	0	0	
†	5228	0	178.15	5153.28	596.26	-596.45	270.53	549511.5	387197.61	32°03'51.9147"N	104°10'24.6155"W	0	0	0	
†	5328	0	178.15	5253.28	596.26	-596.45	270.53	549511.5	387197.61	32°03'51.9147"N	104°10'24.6155"W	0	0	0	
†	5428	0	178.15	5353.28	596.26	-596.45	270.53	549511.5	387197.61	32°03'51.9147"N	104°10'24.6155"W	0	0	0	
†	5528	0	178.15	5453.28	596.26	-596.45	270.53	549511.5	387197.61	32°03'51.9147"N	104°10'24.6155"W	0	0	0	
†	5628	0	178.15	5553.28	596.26	-596.45	270.53	549511.5	387197.61	32°03'51.9147"N	104°10'24.6155"W	0	0	0	
†	5728	0	178.15	5653.28	596.26	-596.45	270.53	549511.5	387197.61	32°03'51.9147"N	104°10'24.6155"W	0	0	0	
†	5828	0	178.15	5753.28	596.26	-596.45	270.53	549511.5	387197.61	32°03'51.9147"N	104°10'24.6155"W	0	0	0	
†	5928	0	178.15	5853.28	596.26	-596.45	270.53	549511.5	387197.61	32°03'51.9147"N	104°10'24.6155"W	0	0	0	
†	6028	0	178.15	5953.28	596.26	-596.45	270.53	549511.5	387197.61	32°03'51.9147"N	104°10'24.6155"W	0	0	0	
†	6128	0	178.15	6053.28	596.26	-596.45	270.53	549511.5	387197.61	32°03'51.9147"N	104°10'24.6155"W	0	0	0	
†	6228	0	178.15	6153.28	596.26	-596.45	270.53	549511.5	387197.61	32°03'51.9147"N	104°10'24.6155"W	0	0	0	
†	6328	0	178.15	6253.28	596.26	-596.45	270.53	549511.5	387197.61	32°03'51.9147"N	104°10'24.6155"W	0	0	0	
†	6428	0	178.15	6353.28	596.26	-596.45	270.53	549511.5	387197.61	32°03'51.9147"N	104°10'24.6155"W	0	0	0	
†	6528	0	178.15	6453.28	596.26	-596.45	270.53	549511.5	387197.61	32°03'51.9147"N	104°10'24.6155"W	0	0	0	
†	6628	0	178.15	6553.28	596.26	-596.45	270.53	549511.5	387197.61	32°03'51.9147"N	104°10'24.6155"W	0	0	0	
†	6728	0	178.15	6653.28	596.26	-596.45	270.53	549511.5	387197.61	32°03'51.9147"N	104°10'24.6155"W	0	0	0	
†	6828	0	178.15	6753.28	596.26	-596.45	270.53	549511.5	387197.61	32°03'51.9147"N	104°10'24.6155"W	0	0	0	
†	6928	0	178.15	6853.28	596.26	-596.45	270.53	549511.5	387197.61	32°03'51.9147"N	104°10'24.6155"W	0	0	0	
†	7028	0	178.15	6953.28	596.26	-596.45	270.53	549511.5	387197.61	32°03'51.9147"N	104°10'24.6155"W	0	0	0	
†	7128	0	178.15	7053.28	596.26	-596.45	270.53	549511.5	387197.61	32°03'51.9147"N	104°10'24.6155"W	0	0	0	
†	7228	0	178.15	7153.28	596.26	-596.45	270.53	549511.5	387197.61	32°03'51.9147"N	104°10'24.6155"W	0	0	0	
†	7328	0	178.15	7253.28	596.26	-596.45	270.53	549511.5	387197.61	32°03'51.9147"N	104°10'24.6155"W	0	0	0	
†	7428	0	178.15	7353.28	596.26	-596.45	270.53	549511.5	387197.61	32°03'51.9147"N	104°10'24.6155"W	0	0	0	
†	7528	0	178.15	7453.28	596.26	-596.45	270.53	549511.5	387197.61	32°03'51.9147"N	104°10'24.6155"W	0	0	0	
†	7628	0	178.15	7553.28	596.26	-596.45	270.53	549511.5	387197.61	32°03'51.9147"N	104°10'24.6155"W	0	0	0	
†	7728	0	178.15	7653.28	596.26	-596.45	270.53	549511.5	387197.61	32°03'51.9147"N	104°10'24.6155"W	0	0	0	
†	7828	0	178.15	7753.28	596.26	-596.45	270.53	549511.5	387197.61	32°03'51.9147"N	104°10'24.6155"W	0	0	0	
†	7928	0	178.15	7853.28	596.26	-596.45	270.53	549511.5	387197.61	32°03'51.9147"N	104°10'24.6155"W	0	0	0	
†	8028	0	178.15	7953.28	596.26	-596.45	270.53	549511.5	387197.61	32°03'51.9147"N	104°10'24.6155"W	0	0	0	
†	8128	0	178.15	8053.28	596.26	-596.45	270.53	549511.5	387197.61	32°03'51.9147"N	104°10'24.6155"W	0	0	0	
†	8228	0	178.15	8153.28	596.26	-596.45	270.53	549511.5	387197.61	32°03'51.9147"N	104°10'24.6155"W	0	0	0	
†	8328	0	178.15	8253.28	596.26	-596.45	270.53	549511.5	387197.61	32°03'51.9147"N	104°10'24.6155"W	0	0	0	
†	8374.72	0	178.15	8300	596.26	-596.45	270.53	549511.5	387197.61	32°03'51.9147"N	104°10'24.6155"W	0	0	0	7" Casing
†	8428	0	178.15	8353.28	596.26	-596.45	270.53	549511.5	387197.61	32°03'51.9147"N	104°10'24.6155"W	0	0	0	
†	8528	0	178.15	8453.28	596.26	-596.45	270.53	549511.5	387197.61	32°03'51.9147"N	104°10'24.6155"W	0	0	0	
†	8628	0	178.15	8553.28	596.26	-596.45	270.53	549511.5	387197.61	32°03'51.9147"N	104°10'24.6155"W	0	0	0	
†	8728	0	178.15	8653.28	596.26	-596.45	270.53	549511.5	387197.61	32°03'51.9147"N	104°10'24.6155"W	0	0	0	
†	8779.76	0	178.15	8705.04	596.26	-596.45	270.53	549511.5	387197.61	32°03'51.9147"N	104°10'24.6155"W	0	0	0	Curve KOP
†	8828	4.824	178.15	8753.22	598.29	-598.47	270.59	549511.6	387195.58	32°03'51.8947"N	104°10'24.6148"W	10	10	0	
†	8928	14.824	178.15	8851.63	615.32	-615.51	271.14	549512.1	387178.55	32°03'51.7261"N	104°10'24.6087"W	10	10	0	
†	9028	24.824	178.15	8945.59	649.17	-649.36	272.24	549513.2	387144.7	32°03'51.3911"N	104°10'24.5966"W	10	10	0	
†	9128	34.824	178.15	9032.23	698.81	-699	273.84	549514.8	387095.06	32°03'50.8998"N	104°10'24.5788"W	10	10	0	
†	9228	44.824	178.15	9108.94	762.74	-762.93	275.91	549516.9	387031.14	32°03'50.2672"N	104°10'24.5559"W	10	10	0	
†	9328	54.824	178.15	9173.37	839	-839.2	278.37	549519.3	386954.88	32°03'49.5124"N	104°10'24.5286"W	10	10	0	
†	9428	64.824	178.15	9223.57	925.3	-925.49	281.16	549522.1	386868.59	32°03'48.6584"N	104°10'24.4977"W	10	10	0	
†	9528	74.824	178.15	9258.02	1018.99	-1019.19	284.18	549525.2	386774.9	32°03'47.7312"N	104°10'24.4641"W	10	10	0	
†	9628	84.824	178.15	9275.66	1117.24	-1117.44	287.36	549528.3	386676.66	32°03'46.7589"N	104°10'24.4289"W	10	10	0	
†	9679.76	90	178.15	9278	1168.9	-1169.11	289.03	549530	386625	32°03'46.2476"N	104°10'24.4104"W	10	10	0	End Build- Landing 1
†	9728	90	178.15	9278	1217.11	-1217.32	290.58	549531.6	386576.79	32°03'45.7705"N	104°10'24.3932"W	0	0	0	
†	9828	90	178.15	9278	1317.06	-1317.26	293.81	549534.8	386476.85	32°03'44.7814"N	104°10'24.3574"W	0	0	0	
†	9928	90	178.15	9278	1417	-1417.21	297.04	549538	386376.92	32°03'43.7					

†	11328	90	178.15	9278	2816.24	-2816.48	342.24	549583.2	384977.77	32°03'29.9449"N	104°10'23.8204"W	0	0	0		
†	11428	90	178.15	9278	2916.19	-2916.43	345.47	549586.4	384877.83	32°03'28.9557"N	104°10'23.7846"W	0	0	0		
†	11528	90	178.15	9278	3016.13	-3016.38	348.7	549589.7	384777.89	32°03'27.9666"N	104°10'23.7488"W	0	0	0		
†	11628	90	178.15	9278	3116.08	-3116.33	351.93	549592.9	384677.95	32°03'26.9775"N	104°10'23.7131"W	0	0	0		
†	11728	90	178.15	9278	3216.03	-3216.27	355.16	549596.1	384578.02	32°03'25.9884"N	104°10'23.6773"W	0	0	0		
†	11828	90	178.15	9278	3315.97	-3316.22	358.39	549599.4	384478.08	32°03'24.9993"N	104°10'23.6415"W	0	0	0		
†	11928	90	178.15	9278	3415.92	-3416.17	361.61	549602.6	384378.14	32°03'24.0102"N	104°10'23.6057"W	0	0	0		
†	12028	90	178.15	9278	3515.86	-3516.12	364.84	549605.8	384278.2	32°03'23.0211"N	104°10'23.5699"W	0	0	0		
†	12128	90	178.15	9278	3615.81	-3616.07	368.07	549609	384178.26	32°03'22.0320"N	104°10'23.5341"W	0	0	0		
†	12228	90	178.15	9278	3715.75	-3716.01	371.3	549612.3	384078.32	32°03'21.0429"N	104°10'23.4983"W	0	0	0		
†	12328	90	178.15	9278	3815.7	-3815.96	374.53	549615.5	383978.38	32°03'20.0538"N	104°10'23.4625"W	0	0	0		
†	12428	90	178.15	9278	3915.64	-3915.91	377.76	549618.7	383878.44	32°03'19.0647"N	104°10'23.4267"W	0	0	0		
†	12528	90	178.15	9278	4015.59	-4015.86	380.99	549622	383778.5	32°03'18.0756"N	104°10'23.3909"W	0	0	0		
†	12628	90	178.15	9278	4115.54	-4115.8	384.22	549625.2	383678.57	32°03'17.0865"N	104°10'23.3551"W	0	0	0		
†	12728	90	178.15	9278	4215.48	-4215.75	387.44	549628.4	383578.63	32°03'16.0974"N	104°10'23.3193"W	0	0	0		
†	12828	90	178.15	9278	4315.43	-4315.7	390.67	549631.6	383478.69	32°03'15.1083"N	104°10'23.2836"W	0	0	0		
†	12928	90	178.15	9278	4415.37	-4415.65	393.9	549634.9	383378.75	32°03'14.1192"N	104°10'23.2478"W	0	0	0		
†	13028	90	178.15	9278	4515.32	-4515.6	397.13	549638.1	383278.81	32°03'13.1301"N	104°10'23.2120"W	0	0	0		
†	13128	90	178.15	9278	4615.26	-4615.54	400.36	549641.3	383178.87	32°03'12.1410"N	104°10'23.1762"W	0	0	0		
†	13228	90	178.15	9278	4715.21	-4715.49	403.59	549644.6	383078.93	32°03'11.1519"N	104°10'23.1404"W	0	0	0		
†	13328	90	178.15	9278	4815.15	-4815.44	406.82	549647.8	382978.99	32°03'10.1628"N	104°10'23.1046"W	0	0	0		
†	13428	90	178.15	9278	4915.1	-4915.39	410.04	549651	382879.06	32°03'9.1737"N	104°10'23.0688"W	0	0	0		
†	13528	90	178.15	9278	5015.05	-5015.34	413.27	549654.2	382779.12	32°03'8.1846"N	104°10'23.0330"W	0	0	0		
†	13628	90	178.15	9278	5114.99	-5115.28	416.5	549657.5	382679.18	32°03'7.1955"N	104°10'22.9972"W	0	0	0		
†	13728	90	178.15	9278	5214.94	-5215.23	419.73	549660.7	382579.24	32°03'6.2064"N	104°10'22.9615"W	0	0	0		
†	13828	90	178.15	9278	5314.88	-5315.18	422.96	549663.9	382479.3	32°03'5.2173"N	104°10'22.9257"W	0	0	0		
†	13928	90	178.15	9278	5414.83	-5415.13	426.19	549667.2	382379.36	32°03'4.2282"N	104°10'22.8899"W	0	0	0		
†	14028	90	178.15	9278	5514.77	-5515.08	429.42	549670.4	382279.42	32°03'3.2391"N	104°10'22.8541"W	0	0	0		
†	14128	90	178.15	9278	5614.72	-5615.02	432.65	549673.6	382179.48	32°03'2.2500"N	104°10'22.8183"W	0	0	0		
†	14228	90	178.15	9278	5714.67	-5714.97	435.87	549676.8	382079.54	32°03'1.2608"N	104°10'22.7825"W	0	0	0		
†	14328	90	178.15	9278	5814.61	-5814.92	439.1	549680.1	381979.61	32°03'0.2717"N	104°10'22.7467"W	0	0	0		
†	14428	90	178.15	9278	5914.56	-5914.87	442.33	549683.3	381879.67	32°02'59.2826"N	104°10'22.7109"W	0	0	0		
†	14528	90	178.15	9278	6014.5	-6014.81	445.56	549686.5	381779.73	32°02'58.2935"N	104°10'22.6752"W	0	0	0		
†	14628	90	178.15	9278	6114.45	-6114.76	448.79	549689.8	381679.79	32°02'57.3044"N	104°10'22.6394"W	0	0	0		
†	14635.79	90	178.15	9278	6122.24	-6122.55	449.04	549690	381672	32°02'57.2273"N	104°10'22.6366"W	0	0	0	Start Turn	2
†	14728	90	179.994	9278	6214.43	-6214.74	450.53	549691.5	381579.82	32°02'56.3150"N	104°10'22.6208"W	2	0	2		
†	14730.25	90	180.039	9278	6216.68	-6216.99	450.53	549691.5	381577.57	32°02'56.2927"N	104°10'22.6209"W	2	0	2	End Turn	
†	14828	90	180.039	9278	6314.43	-6314.74	450.47	549691.4	381479.83	32°02'55.3255"N	104°10'22.6233"W	0	0	0		
†	14928	90	180.039	9278	6414.43	-6414.74	450.4	549691.4	381379.84	32°02'54.3359"N	104°10'22.6258"W	0	0	0		
†	15028	90	180.039	9278	6514.43	-6514.74	450.33	549691.3	381279.85	32°02'53.3463"N	104°10'22.6284"W	0	0	0		
†	15128	90	180.039	9278	6614.43	-6614.74	450.26	549691.2	381179.85	32°02'52.3567"N	104°10'22.6309"W	0	0	0		
†	15228	90	180.039	9278	6714.43	-6714.74	450.19	549691.2	381079.86	32°02'51.3672"N	104°10'22.6334"W	0	0	0		
†	15328	90	180.039	9278	6814.43	-6814.74	450.13	549691.1	380979.87	32°02'50.3776"N	104°10'22.6359"W	0	0	0		
†	15428	90	180.039	9278	6914.43	-6914.74	450.06	549691	380879.88	32°02'49.3880"N	104°10'22.6384"W	0	0	0		
†	15528	90	180.039	9278	7014.43	-7014.74	449.99	549691	380779.89	32°02'48.3985"N	104°10'22.6409"W	0	0	0		
†	15628	90	180.039	9278	7114.43	-7114.74	449.92	549690.9	380679.9	32°02'47.4089"N	104°10'22.6434"W	0	0	0		
†	15728	90	180.039	9278	7214.43	-7214.74	449.85	549690.8	380579.91	32°02'46.4193"N	104°10'22.6460"W	0	0	0		
†	15828	90	180.039	9278	7314.43	-7314.74	449.79	549690.8	380479.92	32°02'45.4297"N	104°10'22.6485"W	0	0	0		
†	15928	90	180.039	9278	7414.43	-7414.74	449.72	549690.7	380379.93	32°02'44.4402"N	104°10'22.6510"W	0	0	0		
†	16028	90	180.039	9278	7514.43	-7514.74	449.65	549690.6	380279.94	32°02'43.4506"N	104°10'22.6535"W	0	0	0		
†	16128	90	180.039	9278	7614.43	-7614.74	449.58	549690.5	380179.94	32°02'42.4610"N	104°10'22.6560"W	0	0	0		
†	16228	90	180.039	9278	7714.43	-7714.74	449.51	549690.5	380079.95	32°02'41.4714"N	104°10'22.6585"W	0	0	0		
†	16328	90	180.039	9278	7814.43	-7814.74	449.45	549690.4	379979.96	32°02'40.4819"N	104°10'22.6611"W	0	0	0		
†	16428	90	180.039	9278	7914.43	-7914.74	449.38	549690.3	379879.97	32°02'39.4923"N	104°10'22.6636"W	0	0	0		
†	16528	90	180.039	9278	8014.43	-8014.74	449.31	549690.3	379779.98	32°02'38.5027"N	104°10'22.6661"W	0	0	0		
†	16628	90	180.039	9278	8114.43	-8114.74	449.24	549690.2	379679.99	32°02'37.5132"N	104°10'22.6686"W	0	0	0		
†	16728	90	180.039	9278	8214.43	-8214.74	449.17	549690.1	379580	32°02'36.5236"N	104°10'22.6711"W	0	0	0		
†	16828	90	180.039	9278	8314.43	-8314.74	449.11	549690.1	379480.01	32°02'35.5340"N	104°10'22.6736"W	0	0	0		
†	16928	90	180.039	9278	8414.43	-8414.74	449.04	549690	379380.02	32°02'34.5444"N	104°10'22.6761"W	0	0	0		
†	17028	90	180.039	9278	8514.43	-8514.74	448.97	549689.9	379280.03	32°02'33.5549"N	104°10'22.6787"W	0	0	0		
†	17128	90	180.039	9278	8614.43	-8614.74	448.9	549689.9	379180.03	32°02'32.5653"N	104°10'22.6812"W	0	0	0		
†	17228	90	180.039	9278	8714.43	-8714.74	448.83	549689.8	379080.04	32°02'31.5757"N	104°10'22.6837"W	0	0	0		
†	17328	90	180.039	9278	8814.43	-8814.74	448.77	549689.7	378980.05	32°02'30.5862"N	104°10'22.6862"W	0	0	0		
†	17428	90	180.039	9278	8914.43	-8914.74	448.7	549689.7	378880.06	32°02'29.5966"N	104°10'22.6887"W	0	0	0		
†	17528	90	180.039	9278	9014.43	-9014.74	448.63	549689.6	378780.07	32°02'28.6070"N	104°10'22.6912"W	0	0	0		
†	17628	90	180.039	9278	9114.43	-9114.74	448.56	549689.5	378680.08	32°02'27.6174"N	104°10'22.6937"W	0	0	0		
†	17728	90	180.039	9278	9214.43	-9214.74	448.49	549689.5	378580.09	32°02'26.6279"N	104°10'22.6963"W	0	0	0		
†	17828	90	180.039	9278	9314.43	-9314.74	448.43	549689.4	378480.1	32°02'25.6383"N	104°10'22.6988"W	0	0	0		
†	17928	90	180.039	9278	9414.43	-9414.74	448.36	549689.3	378380.11	32°02'24.6487"N	104°10'22.7013"W	0	0	0		
†	18028	90	180.039	9278	9514.43	-9514.74	448.29	549689.3	378280.12	32°02'23.6591"N	104°10'22.7038"W	0	0	0		
†	18128	90	180.039	9278	9614.43	-9614.74	448.22	549689.2	378180.13	32°02'22.6696"N	104°10'22.7063"W	0	0	0		

†	19628	90	180.039	9278	11114.43	-11114.7	447.2	549688.2	376680.26	32°02'7.8260"N	104°10'22.7440"W	0	0	0
†	19728	90	180.039	9278	11214.43	-11214.7	447.13	549688.1	376580.27	32°02'6.8364"N	104°10'22.7466"W	0	0	0
†	19828	90	180.039	9278	11314.43	-11314.7	447.07	549688	376480.28	32°02'5.8468"N	104°10'22.7491"W	0	0	0
	19807.28	90	180.039	9278	11353.71	-11354	447.04	549688	376441	32°02'5.4581"N	104°10'22.7501"W	0	0	0 PBHL (50'FSBL) 3

HOLE AND CASING SECTIONS Ref Wellbore: Cicada Unit No. 29H PWB Ref Wellpath: Cicada Unit No. 29H Rev-A.0

String/Diameter	Start MD	End MD	Interval	Start TVD	End TVD	Start N/S	Start E/W	End N/S	End E/W
	[ft]	[ft]	[ft]	[ft]	[ft]	[ft]	[ft]	[ft]	[ft]
13.375in Casing	28	450	422	28	450	0	0	0	0
9.625in Casing	28	2124.13	2096.13	28	2100	0	0	-206.72	93.76
7in Casing	28	8374.72	8346.72	28	8300	0	0	-596.45	270.53
4.5in Liner	8074.72	19867.28	11792.56	8000	9278	-596.45	270.53	-11354.02	447.04

TARGETS

Name	MD	TVD	North	East	Grid East	Grid North	Latitude	Longitude	Shape
	[ft]	[ft]	[ft]	[ft]	[US ft]	[US ft]			
(1) Cicada Unit No. 29H FTP	9679.76	9278	-1169.11	289.03	549530	386625	32°03'46.2476"N	104°10'24.4104"W	point
Cicada Unit No. 29H LTP	N/A	9278	-11074	447.04	549688	376721	32°02'8.2291"N	104°10'22.7452"W	point
(2) Cicada Unit No. 29H MP	14635.79	9278	-6122.55	449.04	549690	381672	32°02'57.2273"N	104°10'22.6366"W	point
(3) Cicada Unit No. 29H PBHL	19867.28	9278	-11354	447.04	549688	376441	32°02'5.4581"N	104°10'22.7501"W	point

SURVEY PROGRAM Ref Wellbore: Cicada Unit No. 29H PWB Ref Wellpath: Cicada Unit No. 29H Rev-A.0

Start MD	End MD	Pos Unc Model	Wellbore
[ft]	[ft]		
28	450	OWSG MWD rev2 + HRGM	Cicada Unit No. 29H PWB
450	2200	OWSG MWD rev2 + HRGM	Cicada Unit No. 29H PWB
2200	8400	OWSG MWD rev2 + HRGM	Cicada Unit No. 29H PWB
8400	19867.28	OWSG MWD rev2 + HRGM	Cicada Unit No. 29H PWB

COMMENTS