

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

OCD Hobbs

FORM APPROVED
OMB No. 1004-0137
Expires: July 31, 2010

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

Lease Serial No.
NMLC065876A

1a. Type of Well ☒ Oil Well ☐ Gas Well ☐ Dry ☐ Other
b. Type of Completion ☒ New Well ☐ Work Over ☐ Deepen ☐ Plug Back ☐ Diff. Reentry
Other _____

2. Name of Operator
CHEVRON USA INC Contact: LAURA BECERRA
E-Mail: LBECERRA@CHEVRON.COM

3. Address 1616 W. BENDER BLVD
HOBBS, NM 88240 3a. Phone No. (include area code)
Ph: 432-687-7665

4. Location of Well (Report location clearly and in accordance with Federal requirements)*
At surface Sec 24 T26S R32E Mer NMP SESE 200FSL 1185FEL 32.021488 N Lat, 103.623649 W Lon
At top prod interval reported below Sec 13 T26S R32E Mer NMP NENE 196FNL 459FEL 32.049852 N Lat, 103.621292 W Lon
At total depth NENE 196FNL 459FEL 32.049852 N Lat, 103.621292 W Lon

6. If Indian, Allottee or Tribe Name
7. Unit or CA Agreement Name and No.
8. Lease Name and Well No.
SD WE 24 FED P24 7H

9. API Well No.
30-025-43675-00-S1

10. Field and Pool, or Exploratory
JENNINGS-UPPER BONE SPRING SHA

11. Sec., T., R., M., or Block and Survey
or Area Sec 24 T26S R32E Mer NMP

12. County or Parish
LEA 13. State
NM

14. Date Spudded
08/10/2017 15. Date T.D. Reached
09/06/2017 16. Date Completed
☐ D & A ☒ Ready to Prod.
12/08/2017

17. Elevations (DF, KB, RT, GL)*
3136 GL

18. Total Depth: MD 19371
TVD 9121 19. Plug Back T.D.: MD 19315
TVD 1200 20. Depth Bridge Plug Set: MD
TVD 1200

21. Type Electric & Other Mechanical Logs Run (Submit copy of each)
GR JB CBL 22. Was well cored? ☒ No ☐ Yes (Submit analysis)
Was DST run? ☒ No ☐ Yes (Submit analysis)
Directional Survey? ☐ No ☒ Yes (Submit analysis)

23. Casing and Liner Record (Report all strings set in well)

Hole Size	Size/Grade	Wt. (#/ft.)	Top (MD)	Bottom (MD)	Stage Cement Depth	No. of Sk. & Type of Cement	Slurry Vol. (BBL)	Cement Top*	Amount Pulled
17.500	13.375 J-55	54.5	34	662		844		34	
12.250	9.625 L-80	40.0	34	4536		1487		34	
8.750	5.500 HCP110	20.0	34	19363		2612		34	

24. Tubing Record

Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)
2.875	8826	8812						

25. Producing Intervals

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) BONE SPRING UPPER			9227 TO 19196			PRODUCING - SEE ATTACHED PI
B)						
C)						
D)						

27. Acid, Fracture, Treatment, Cement Squeeze, Etc.

Depth Interval	Amount and Type of Material
9227 TO 19196	FRAC WITH TOTAL PROPPANT - 16,184,708 LBS **SEE DETAILED FRAC SUMMARY ATTACHED

28. Production - Interval A

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
01/18/2018	02/08/2018	24	→	1513.0	2276.0	1734.0			POW
Choke Size	Tbg. Press. Flwg.	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	
64/64	SI 780	614.0	→	1513	2276	1734	1504	POW	

28a. Production - Interval B

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
			→						
Choke Size	Tbg. Press. Flwg.	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	
	SI		→						

(See Instructions and spaces for additional data on reverse side)

ELECTRONIC SUBMISSION #405587 VERIFIED BY THE BLM WELL INFORMATION SYSTEM

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

Reclamation due: 06/08/2018



28b. Production - Interval C

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
			→						
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	
			→						

28c. Production - Interval D

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
			→						
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	
			→						

29. Disposition of Gas(Sold, used for fuel, vented, etc.)
SOLD

30. Summary of Porous Zones (Include Aquifers):

Show all important zones of porosity and contents thereof: Cored intervals and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures and recoveries.

31. Formation (Log) Markers

Formation	Top	Bottom	Descriptions, Contents, etc.	Name	Top
					Meas. Depth
CASTILE	2888	4714	ANHYDRITE	CASTILE	2888
DELAWARE	4715	4751	LIMESTONE	DELAWARE	4715
BELL CANYON	4752	5794	SANDSTONE	BELL CANYON	4752
CHERRY CANYON	5795	7354	SANDSTONE	CHERRY CANYON	5795
BRUSHY CANYON	7355	8966	SANDSTONE	BRUSHY CANYON	7355
BONE SPRING LIME	8967	9020	SHALE/LIMESTONE	BONE SPRING LIME	8967
AVALON	9021	19371	SHALE/LIMESTONE	AVALON	9021

32. Additional remarks (include plugging procedure):

33. Circle enclosed attachments:

1. Electrical/Mechanical Logs (1 full set req'd.) 2. Geologic Report 3. DST Report 4. Directional Survey
5. Sundry Notice for plugging and cement verification 6. Core Analysis 7 Other:

34. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records (see attached instructions):

Electronic Submission #405587 Verified by the BLM Well Information System.
For CHEVRON USA INC, sent to the Hobbs
Committed to AFMSS for processing by DUNCAN WHITLOCK on 02/28/2018 (18DW0070SE)

Name (please print) LAURA BECERRA

Title PERMITTING SPECIALIST

Signature (Electronic Submission)

Date 02/23/2018

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.

** REVISED ** REVISED ** REVISED ** REVISED ** REVISED ** REVISED ** REVISED ** REVISED **

Well Name: SD WE 24 FED P24 7H

API: 30-025-43673

Lease: SD WE 24 FED P24

Field Name: JENNINGS

PERFORATION DETAILS

Date	Perforation Type	Top (ftKB)	Btm (ftKB)	Phasing (°)	Gun Size (in)	Chg Sz (g)	Shot Dens (shots/ft)	Com
12/8/2017	Shaped Charge	9227	9228	180	3 1/8	22.7	2	Stage 51
12/8/2017	Shaped Charge	9241	9242	180	3 1/8	22.7	2	Stage 51
12/8/2017	Shaped Charge	9255	9256	180	3 1/8	22.7	2	Stage 51
12/8/2017	Shaped Charge	9269	9270	180	3 1/8	22.7	2	Stage 51
12/8/2017	Shaped Charge	9283	9284	180	3 1/8	22.7	2	Stage 51
12/8/2017	Shaped Charge	9297	9298	180	3 1/8	22.7	2	Stage 51
12/8/2017	Shaped Charge	9311	9312	180	3 1/8	22.7	2	Stage 51
12/8/2017	Shaped Charge	9325	9326	180	3 1/8	22.7	3	Stage 51
12/8/2017	Shaped Charge	9339	9340	120	3 1/8	22.7	3	Stage 51
12/8/2017	Shaped Charge	9350	9351	120	3 1/8	22.7	3	Stage 51
12/8/2017	Shaped Charge	9367	9368	120	3 1/8	22.7	3	Stage 51
12/8/2017	Shaped Charge	9381	9382	120	3 1/8	22.7	3	Stage 51
12/8/2017	Shaped Charge	9395	9396	120	3 1/8	22.7	4	Stage 51
12/8/2017	Shaped Charge	9409	9410	60	3 1/8	22.7	6	Stage 51
12/7/2017	Shaped Charge	9423	9424	180	3 1/8	22.7	2	Stage 50
12/7/2017	Shaped Charge	9437	9438	180	3 1/8	22.7	2	Stage 50
12/7/2017	Shaped Charge	9451	9452	180	3 1/8	22.7	2	Stage 50
12/7/2017	Shaped Charge	9465	9466	180	3 1/8	22.7	2	Stage 50
12/7/2017	Shaped Charge	9479	9480	180	3 1/8	22.7	2	Stage 50
12/7/2017	Shaped Charge	9493	9494	180	3 1/8	22.7	2	Stage 50
12/7/2017	Shaped Charge	9507	9508	180	3 1/8	22.7	2	Stage 50
12/7/2017	Shaped Charge	9521	9522	180	3 1/8	22.7	3	Stage 50
12/7/2017	Shaped Charge	9535	9536	120	3 1/8	22.7	3	Stage 50
12/7/2017	Shaped Charge	9549	9550	120	3 1/8	22.7	3	Stage 50
12/7/2017	Shaped Charge	9563	9564	120	3 1/8	22.7	3	Stage 50
12/7/2017	Shaped Charge	9577	9578	120	3 1/8	22.7	3	Stage 50
12/7/2017	Shaped Charge	9591	9592	120	3 1/8	22.7	4	Stage 50
12/7/2017	Shaped Charge	9605	9606	60	3 1/8	22.7	6	Stage 50
12/7/2017	Shaped Charge	9619	9620	180	3 1/8	22.7	2	Stage 49
12/7/2017	Shaped Charge	9633	9634	180	3 1/8	22.7	2	Stage 49
12/7/2017	Shaped Charge	9647	9648	180	3 1/8	22.7	2	Stage 49
12/7/2017	Shaped Charge	9661	9662	180	3 1/8	22.7	2	Stage 49
12/7/2017	Shaped Charge	9675	9676	180	3 1/8	22.7	2	Stage 49
12/7/2017	Shaped Charge	9689	9690	180	3 1/8	22.7	2	Stage 49
12/7/2017	Shaped Charge	9703	9704	180	3 1/8	22.7	2	Stage 49
12/7/2017	Shaped Charge	9717	9718	180	3 1/8	22.7	3	Stage 49
12/7/2017	Shaped Charge	9731	9732	120	3 1/8	22.7	3	Stage 49
12/7/2017	Shaped Charge	9745	9746	120	3 1/8	22.7	3	Stage 49
12/7/2017	Shaped Charge	9759	9760	120	3 1/8	22.7	3	Stage 49
12/7/2017	Shaped Charge	9773	9774	120	3 1/8	22.7	3	Stage 49
12/7/2017	Shaped Charge	9787	9788	120	3 1/8	22.7	4	Stage 49
12/7/2017	Shaped Charge	9801	9802	60	3 1/8	22.7	6	Stage 49
12/6/2017	Shaped Charge	9817	9818	180	3 1/8	22.7	2	Stage 48
12/6/2017	Shaped Charge	9829	9830	180	3 1/8	22.7	2	Stage 48

12/6/2017	Shaped Charge	9843	9844	180	3 1/8	22.7	2	Stage 48
12/6/2017	Shaped Charge	9859	9860	180	3 1/8	22.7	2	Stage 48
12/6/2017	Shaped Charge	9871	9872	180	3 1/8	22.7	2	Stage 48
12/6/2017	Shaped Charge	9885	9886	180	3 1/8	22.7	2	Stage 48
12/6/2017	Shaped Charge	9899	9900	180	3 1/8	22.7	2	Stage 48
12/6/2017	Shaped Charge	9913	9914	180	3 1/8	22.7	3	Stage 48
12/6/2017	Shaped Charge	9927	9928	120	3 1/8	22.7	3	Stage 48
12/6/2017	Shaped Charge	9941	9942	120	3 1/8	22.7	3	Stage 48
12/6/2017	Shaped Charge	9955	9956	120	3 1/8	22.7	3	Stage 48
12/6/2017	Shaped Charge	9969	9970	120	3 1/8	22.7	3	Stage 48
12/6/2017	Shaped Charge	9983	9984	120	3 1/8	22.7	4	Stage 48
12/6/2017	Shaped Charge	9997	9998	60	3 1/8	22.7	6	Stage 48
12/6/2017	Shaped Charge	10011	10012	180	3 1/8	22.7	2	Stage 47
12/6/2017	Shaped Charge	10025	10026	180	3 1/8	22.7	2	Stage 47
12/6/2017	Shaped Charge	10039	10040	180	3 1/8	22.7	2	Stage 47
12/6/2017	Shaped Charge	10053	10054	180	3 1/8	22.7	2	Stage 47
12/6/2017	Shaped Charge	10067	10068	180	3 1/8	22.7	2	Stage 47
12/6/2017	Shaped Charge	10081	10082	180	3 1/8	22.7	2	Stage 47
12/6/2017	Shaped Charge	10095	10096	180	3 1/8	22.7	2	Stage 47
12/6/2017	Shaped Charge	10109	10110	180	3 1/8	22.7	3	Stage 47
12/6/2017	Shaped Charge	10123	10124	120	3 1/8	22.7	3	Stage 47
12/6/2017	Shaped Charge	10137	10138	120	3 1/8	22.7	3	Stage 47
12/6/2017	Shaped Charge	10151	10152	120	3 1/8	22.7	3	Stage 47
12/6/2017	Shaped Charge	10165	10166	120	3 1/8	22.7	3	Stage 47
12/6/2017	Shaped Charge	10179	10180	120	3 1/8	22.7	4	Stage 47
12/6/2017	Shaped Charge	10193	10194	60	3 1/8	22.7	6	Stage 47
12/5/2017	Shaped Charge	10207	10208		3 1/8		2	Stage 46
12/5/2017	Shaped Charge	10221	10222		3 1/8		2	Stage 46
12/5/2017	Shaped Charge	10235	10236		3 1/8		2	Stage 46
12/5/2017	Shaped Charge	10249	10250		3 1/8		2	Stage 46
12/5/2017	Shaped Charge	10263	10264		3 1/8		2	Stage 46
12/5/2017	Shaped Charge	10277	10278		3 1/8		2	Stage 46
12/5/2017	Shaped Charge	10291	10292		3 1/8		2	Stage 46
12/5/2017	Shaped Charge	10305	10306		3 1/8		3	Stage 46
12/5/2017	Shaped Charge	10317	10318		3 1/8		3	Stage 46
12/5/2017	Shaped Charge	10333	10334		3 1/8		3	Stage 46
12/5/2017	Shaped Charge	10347	10348		3 1/8		3	Stage 46
12/5/2017	Shaped Charge	10363	10364		3 1/8		3	Stage 46
12/5/2017	Shaped Charge	10375	10376		3 1/8		4	Stage 46
12/5/2017	Shaped Charge	10389	10390		3 1/8		6	Stage 46
12/5/2017	Shaped Charge	10405	10406	180	3 1/8	22.7	2	Stage 45
12/5/2017	Shaped Charge	10417	10418	180	3 1/8	22.7	2	Stage 45
12/5/2017	Shaped Charge	10431	10432	180	3 1/8	22.7	2	Stage 45
12/5/2017	Shaped Charge	10446	10447	180	3 1/8	22.7	2	Stage 45
12/5/2017	Shaped Charge	10459	10460	180	3 1/8	22.7	2	Stage 45
12/5/2017	Shaped Charge	10473	10474	180	3 1/8	22.7	2	Stage 45
12/5/2017	Shaped Charge	10485	10486	180	3 1/8	22.7	2	Stage 45
12/5/2017	Shaped Charge	10501	10502	180	3 1/8	22.7	3	Stage 45
12/5/2017	Shaped Charge	10515	10516	120	3 1/8	22.7	3	Stage 45
12/5/2017	Shaped Charge	10529	10530	120	3 1/8	22.7	3	Stage 45
12/5/2017	Shaped Charge	10543	10544	120	3 1/8	22.7	3	Stage 45
12/5/2017	Shaped Charge	10557	10558	120	3 1/8	22.7	3	Stage 45

12/5/2017	Shaped Charge	10571	10572	120	3 1/8	22.7	4	Stage 45
12/5/2017	Shaped Charge	10585	10586	60	3 1/8	22.7	5	Stage 45
12/3/2017	Shaped Charge	10599	10600	180	3 1/8	22.7	2	Stage 44
12/3/2017	Shaped Charge	10613	10614	180	3 1/8	22.7	2	Stage 44
12/3/2017	Shaped Charge	10627	10628	180	3 1/8	22.7	2	Stage 44
12/3/2017	Shaped Charge	10641	10642	180	3 1/8	22.7	2	Stage 44
12/3/2017	Shaped Charge	10655	10656	180	3 1/8	22.7	2	Stage 44
12/3/2017	Shaped Charge	10669	10670	180	3 1/8	22.7	2	Stage 44
12/3/2017	Shaped Charge	10683	10684	180	3 1/8	22.7	2	Stage 44
12/3/2017	Shaped Charge	10697	10698	180	3 1/8	22.7	3	Stage 44
12/3/2017	Shaped Charge	10711	10712	120	3 1/8	22.7	3	Stage 44
12/3/2017	Shaped Charge	10725	10726	120	3 1/8	22.7	3	Stage 44
12/3/2017	Shaped Charge	10739	10740	120	3 1/8	22.7	3	Stage 44
12/3/2017	Shaped Charge	10753	10754	120	3 1/8	22.7	3	Stage 44
12/3/2017	Shaped Charge	10767	10768	120	3 1/8	22.7	4	Stage 44
12/3/2017	Shaped Charge	10781	10782	60	3 1/8	22.7	5	Stage 44
12/3/2017	Shaped Charge	10795	10796	180	3 1/8	22.7	2	Stage 43
12/3/2017	Shaped Charge	10809	10810	180	3 1/8	22.7	2	Stage 43
12/3/2017	Shaped Charge	10823	10824	180	3 1/8	22.7	2	Stage 43
12/3/2017	Shaped Charge	10837	10838	180	3 1/8	22.7	2	Stage 43
12/3/2017	Shaped Charge	10851	10852	180	3 1/8	22.7	2	Stage 43
12/3/2017	Shaped Charge	10865	10866	180	3 1/8	22.7	2	Stage 43
12/3/2017	Shaped Charge	10879	10880	180	3 1/8	22.7	2	Stage 43
12/3/2017	Shaped Charge	10893	10894	180	3 1/8	22.7	3	Stage 43
12/3/2017	Shaped Charge	10907	10908	120	3 1/8	22.7	3	Stage 43
12/3/2017	Shaped Charge	10921	10922	120	3 1/8	22.7	3	Stage 43
12/3/2017	Shaped Charge	10935	10936	120	3 1/8	22.7	3	Stage 43
12/3/2017	Shaped Charge	10949	10950	120	3 1/8	22.7	3	Stage 43
12/3/2017	Shaped Charge	10963	10964	120	3 1/8	22.7	4	Stage 43
12/3/2017	Shaped Charge	10977	10978	60	3 1/8	22.7	5	Stage 43
12/3/2017	Shaped Charge	10991	10992	180	3 1/8	22.7	2	Stage 42
12/3/2017	Shaped Charge	11005	11006	180	3 1/8	22.7	2	Stage 42
12/3/2017	Shaped Charge	11019	11020	180	3 1/8	22.7	2	Stage 42
12/3/2017	Shaped Charge	11033	11034	180	3 1/8	22.7	2	Stage 42
12/3/2017	Shaped Charge	11047	11048	180	3 1/8	22.7	2	Stage 42
12/3/2017	Shaped Charge	11061	11062	180	3 1/8	22.7	2	Stage 42
12/3/2017	Shaped Charge	11075	11076	180	3 1/8	22.7	2	Stage 42
12/3/2017	Shaped Charge	11089	11090	180	3 1/8	22.7	3	Stage 42
12/3/2017	Shaped Charge	11103	11104	120	3 1/8	22.7	3	Stage 42
12/3/2017	Shaped Charge	11117	11118	120	3 1/8	22.7	3	Stage 42
12/3/2017	Shaped Charge	11131	11132	120	3 1/8	22.7	3	Stage 42
12/3/2017	Shaped Charge	11145	11146	120	3 1/8	22.7	3	Stage 42
12/3/2017	Shaped Charge	11159	11160	120	3 1/8	22.7	4	Stage 42
12/3/2017	Shaped Charge	11173	11174	60	3 1/8	22.7	5	Stage 42
12/2/2017	Shaped Charge	11187	11188	180	3 1/8	22.7	2	Stage 41
12/2/2017	Shaped Charge	11201	11202	180	3 1/8	22.7	2	Stage 41
12/2/2017	Shaped Charge	11215	11216	180	3 1/8	22.7	2	Stage 41
12/2/2017	Shaped Charge	11229	11230	180	3 1/8	22.7	2	Stage 41
12/2/2017	Shaped Charge	11243	11244	180	3 1/8	22.7	2	Stage 41
12/2/2017	Shaped Charge	11257	11258	180	3 1/8	22.7	2	Stage 41
12/2/2017	Shaped Charge	11273	11274	180	3 1/8	22.7	2	Stage 41
12/2/2017	Shaped Charge	11285	11286	180	3 1/8	22.7	3	Stage 41

12/2/2017	Shaped Charge	11299	11300	120	3 1/8	22.7	3	Stage 41
12/2/2017	Shaped Charge	11313	11314	120	3 1/8	22.7	3	Stage 41
12/2/2017	Shaped Charge	11327	11328	120	3 1/8	22.7	3	Stage 41
12/2/2017	Shaped Charge	11341	11342	120	3 1/8	22.7	3	Stage 41
12/2/2017	Shaped Charge	11355	11356	120	3 1/8	22.7	4	Stage 41
12/2/2017	Shaped Charge	11369	11370	60	3 1/8	22.7	5	Stage 41
12/2/2017	Shaped Charge	11383	11384	180	3 1/8	22.7	2	Stage 40
12/2/2017	Shaped Charge	11397	11398	180	3 1/8	22.7	2	Stage 40
12/2/2017	Shaped Charge	11411	11412	180	3 1/8	22.7	2	Stage 40
12/2/2017	Shaped Charge	11425	11426	180	3 1/8	22.7	2	Stage 40
12/2/2017	Shaped Charge	11439	11440	180	3 1/8	22.7	2	Stage 40
12/2/2017	Shaped Charge	11453	11454	180	3 1/8	22.7	2	Stage 40
12/2/2017	Shaped Charge	11467	11468	180	3 1/8	22.7	2	Stage 40
12/2/2017	Shaped Charge	11481	11482	180	3 1/8	22.7	3	Stage 40
12/2/2017	Shaped Charge	11495	11496	120	3 1/8	22.7	3	Stage 40
12/2/2017	Shaped Charge	11509	11510	120	3 1/8	22.7	3	Stage 40
12/2/2017	Shaped Charge	11523	11524	120	3 1/8	22.7	3	Stage 40
12/2/2017	Shaped Charge	11537	11538	120	3 1/8	22.7	3	Stage 40
12/2/2017	Shaped Charge	11551	11552	120	3 1/8	22.7	4	Stage 40
12/2/2017	Shaped Charge	11565	11566	60	3 1/8	22.7	5	Stage 40
12/1/2017	Shaped Charge	11579	11580	180	3 1/8	22.7	2	Stage 39
12/1/2017	Shaped Charge	11593	11594	180	3 1/8	22.7	2	Stage 39
12/1/2017	Shaped Charge	11607	11608	180	3 1/8	22.7	2	Stage 39
12/1/2017	Shaped Charge	11621	11622	180	3 1/8	22.7	2	Stage 39
12/1/2017	Shaped Charge	11635	11636	180	3 1/8	22.7	2	Stage 39
12/1/2017	Shaped Charge	11649	11650	180	3 1/8	22.7	2	Stage 39
12/1/2017	Shaped Charge	11663	11664	180	3 1/8	22.7	2	Stage 39
12/1/2017	Shaped Charge	11677	11678	180	3 1/8	22.7	3	Stage 39
12/1/2017	Shaped Charge	11691	11692	120	3 1/8	22.7	3	Stage 39
12/1/2017	Shaped Charge	11705	11706	120	3 1/8	22.7	3	Stage 39
12/1/2017	Shaped Charge	11719	11720	120	3 1/8	22.7	3	Stage 39
12/1/2017	Shaped Charge	11733	11734	120	3 1/8	22.7	3	Stage 39
12/1/2017	Shaped Charge	11747	11748	120	3 1/8	22.7	4	Stage 39
12/1/2017	Shaped Charge	11761	11762	60	3 1/8	22.7	5	Stage 39
11/30/2017	Shaped Charge	11775	11776	180	3 1/8	22.7	2	Stage 38
11/30/2017	Shaped Charge	11789	11790	180	3 1/8	22.7	2	Stage 38
11/30/2017	Shaped Charge	11803	11804	180	3 1/8	22.7	2	Stage 38
11/30/2017	Shaped Charge	11817	11818	180	3 1/8	22.7	2	Stage 38
11/30/2017	Shaped Charge	11831	11832	180	3 1/8	22.7	2	Stage 38
11/30/2017	Shaped Charge	11845	11846	180	3 1/8	22.7	2	Stage 38
11/30/2017	Shaped Charge	11859	11860	180	3 1/8	22.7	2	Stage 38
11/30/2017	Shaped Charge	11873	11874	180	3 1/8	22.7	3	Stage 38
11/30/2017	Shaped Charge	11887	11888	120	3 1/8	22.7	3	Stage 38
11/30/2017	Shaped Charge	11901	11902	120	3 1/8	22.7	3	Stage 38
11/30/2017	Shaped Charge	11915	11916	120	3 1/8	22.7	3	Stage 38
11/30/2017	Shaped Charge	11929	11930	120	3 1/8	22.7	3	Stage 38
11/30/2017	Shaped Charge	11943	11944	120	3 1/8	22.7	4	Stage 38
11/30/2017	Shaped Charge	11957	11958	60	3 1/8	22.7	5	Stage 38
11/30/2017	Shaped Charge	11971	11972	180	3 1/8	22.7	2	Stage 37
11/30/2017	Shaped Charge	11985	11986	180	3 1/8	22.7	2	Stage 37
11/30/2017	Shaped Charge	11999	12000	180	3 1/8	22.7	2	Stage 37
11/30/2017	Shaped Charge	12013	12014	180	3 1/8	22.7	2	Stage 37

11/30/2017	Shaped Charge	12027	12028	180	3 1/8	22.7	2	Stage 37
11/30/2017	Shaped Charge	12041	12042	180	3 1/8	22.7	2	Stage 37
11/30/2017	Shaped Charge	12055	12056	180	3 1/8	22.7	2	Stage 37
11/30/2017	Shaped Charge	12069	12070	180	3 1/8	22.7	3	Stage 37
11/30/2017	Shaped Charge	12083	12084	120	3 1/8	22.7	3	Stage 37
11/30/2017	Shaped Charge	12097	12098	120	3 1/8	22.7	3	Stage 37
11/30/2017	Shaped Charge	12111	12112	120	3 1/8	22.7	3	Stage 37
11/30/2017	Shaped Charge	12125	12126	120	3 1/8	22.7	3	Stage 37
11/30/2017	Shaped Charge	12141	12142	120	3 1/8	22.7	4	Stage 37
11/30/2017	Shaped Charge	12153	12154	60	3 1/8	22.7	5	Stage 37
11/29/2017	Shaped Charge	12167	12168	180	3 1/8	22.7	2	Stage 36
11/29/2017	Shaped Charge	12181	12182	180	3 1/8	22.7	2	Stage 36
11/29/2017	Shaped Charge	12195	12196	180	3 1/8	22.7	2	Stage 36
11/29/2017	Shaped Charge	12209	12210	180	3 1/8	22.7	2	Stage 36
11/29/2017	Shaped Charge	12224	12225	180	3 1/8	22.7	2	Stage 36
11/29/2017	Shaped Charge	12237	12238	180	3 1/8	22.7	2	Stage 36
11/29/2017	Shaped Charge	12251	12252	180	3 1/8	22.7	2	Stage 36
11/29/2017	Shaped Charge	12265	12266	180	3 1/8	22.7	3	Stage 36
11/29/2017	Shaped Charge	12279	12280	120	3 1/8	22.7	3	Stage 36
11/29/2017	Shaped Charge	12293	12294	120	3 1/8	22.7	3	Stage 36
11/29/2017	Shaped Charge	12308	12309	120	3 1/8	22.7	3	Stage 36
11/29/2017	Shaped Charge	12321	12322	120	3 1/8	22.7	3	Stage 36
11/29/2017	Shaped Charge	12335	12336	120	3 1/8	22.7	4	Stage 36
11/29/2017	Shaped Charge	12350	12351	60	3 1/8	22.7	5	Stage 36
11/29/2017	Shaped Charge	12363	12364	180	3 1/8	22.7	2	Stage 35
11/29/2017	Shaped Charge	12377	12378	180	3 1/8	22.7	2	Stage 35
11/29/2017	Shaped Charge	12391	12392	180	3 1/8	22.7	2	Stage 35
11/29/2017	Shaped Charge	12405	12406	180	3 1/8	22.7	2	Stage 35
11/29/2017	Shaped Charge	12419	12420	180	3 1/8	22.7	2	Stage 35
11/29/2017	Shaped Charge	12434	12435	180	3 1/8	22.7	2	Stage 35
11/29/2017	Shaped Charge	12447	12448	180	3 1/8	22.7	2	Stage 35
11/29/2017	Shaped Charge	12461	12462	180	3 1/8	22.7	3	Stage 35
11/29/2017	Shaped Charge	12476	12477	120	3 1/8	22.7	3	Stage 35
11/29/2017	Shaped Charge	12489	12490	120	3 1/8	22.7	3	Stage 35
11/29/2017	Shaped Charge	12503	12504	120	3 1/8	22.7	3	Stage 35
11/29/2017	Shaped Charge	12517	12518	120	3 1/8	22.7	3	Stage 35
11/29/2017	Shaped Charge	12531	12532	120	3 1/8	22.7	4	Stage 35
11/29/2017	Shaped Charge	12545	12546	60	3 1/8	22.7	5	Stage 35
11/27/2017	Shaped Charge	12560	12561	180	3 1/8	22.7	2	Stage 34
11/27/2017	Shaped Charge	12573	12574	180	3 1/8	22.7	2	Stage 34
11/27/2017	Shaped Charge	12587	12588	180	3 1/8	22.7	2	Stage 34
11/27/2017	Shaped Charge	12602	12603	180	3 1/8	22.7	2	Stage 34
11/27/2017	Shaped Charge	12615	12616	180	3 1/8	22.7	2	Stage 34
11/27/2017	Shaped Charge	12629	12630	180	3 1/8	22.7	2	Stage 34
11/27/2017	Shaped Charge	12643	12644	180	3 1/8	22.7	2	Stage 34
11/27/2017	Shaped Charge	12657	12658	180	3 1/8	22.7	3	Stage 34
11/27/2017	Shaped Charge	12671	12672	120	3 1/8	22.7	3	Stage 34
11/27/2017	Shaped Charge	12686	12687	120	3 1/8	22.7	3	Stage 34
11/27/2017	Shaped Charge	12699	12700	120	3 1/8	22.7	3	Stage 34
11/27/2017	Shaped Charge	12713	12714	120	3 1/8	22.7	3	Stage 34
11/27/2017	Shaped Charge	12727	12728	120	3 1/8	22.7	4	Stage 34
11/27/2017	Shaped Charge	12741	12742	60	3 1/8	22.7	5	Stage 34

11/27/2017	Shaped Charge	12755	12756	180	3 1/8	22.7	2	Stage 33
11/27/2017	Shaped Charge	12769	12770	180	3 1/8	22.7	2	Stage 33
11/27/2017	Shaped Charge	12783	12784	180	3 1/8	22.7	2	Stage 33
11/27/2017	Shaped Charge	12797	12798	180	3 1/8	22.7	2	Stage 33
11/27/2017	Shaped Charge	12812	12813	180	3 1/8	22.7	2	Stage 33
11/27/2017	Shaped Charge	12825	12826	180	3 1/8	22.7	2	Stage 33
11/27/2017	Shaped Charge	12839	12840	180	3 1/8	22.7	2	Stage 33
11/27/2017	Shaped Charge	12853	12854	180	3 1/8	22.7	3	Stage 33
11/27/2017	Shaped Charge	12867	12868	120	3 1/8	22.7	3	Stage 33
11/27/2017	Shaped Charge	12881	12882	120	3 1/8	22.7	3	Stage 33
11/27/2017	Shaped Charge	12895	12896	120	3 1/8	22.7	3	Stage 33
11/27/2017	Shaped Charge	12909	12910	120	3 1/8	22.7	3	Stage 33
11/27/2017	Shaped Charge	12923	12924	120	3 1/8	22.7	4	Stage 33
11/27/2017	Shaped Charge	12937	12938	60	3 1/8	22.7	5	Stage 33
11/27/2017	Shaped Charge	12951	12952	180	3 1/8	22.7	2	Stage 32
11/27/2017	Shaped Charge	12965	12966	180	3 1/8	22.7	2	Stage 32
11/27/2017	Shaped Charge	12979	12980	180	3 1/8	22.7	2	Stage 32
11/27/2017	Shaped Charge	12993	12994	180	3 1/8	22.7	2	Stage 32
11/27/2017	Shaped Charge	13007	13008	180	3 1/8	22.7	2	Stage 32
11/27/2017	Shaped Charge	13021	13022	180	3 1/8	22.7	2	Stage 32
11/27/2017	Shaped Charge	13035	13036	180	3 1/8	22.7	2	Stage 32
11/27/2017	Shaped Charge	13049	13050	180	3 1/8	22.7	3	Stage 32
11/27/2017	Shaped Charge	13063	13064	120	3 1/8	22.7	3	Stage 32
11/27/2017	Shaped Charge	13077	13078	120	3 1/8	22.7	3	Stage 32
11/27/2017	Shaped Charge	13091	13092	120	3 1/8	22.7	3	Stage 32
11/27/2017	Shaped Charge	13105	13106	120	3 1/8	22.7	3	Stage 32
11/27/2017	Shaped Charge	13119	13120	120	3 1/8	22.7	4	Stage 32
11/27/2017	Shaped Charge	13129	13130	60	3 1/8	22.7	5	Stage 32
11/26/2017	Shaped Charge	13147	13148	180	3 1/8	22.7	2	Stage 31
11/26/2017	Shaped Charge	13161	13162	180	3 1/8	22.7	2	Stage 31
11/26/2017	Shaped Charge	13175	13176	180	3 1/8	22.7	2	Stage 31
11/26/2017	Shaped Charge	13189	13190	180	3 1/8	22.7	2	Stage 31
11/26/2017	Shaped Charge	13203	13204	180	3 1/8	22.7	2	Stage 31
11/26/2017	Shaped Charge	13217	13218	180	3 1/8	22.7	2	Stage 31
11/26/2017	Shaped Charge	13231	13232	180	3 1/8	22.7	2	Stage 31
11/26/2017	Shaped Charge	13245	13246	180	3 1/8	22.7	3	Stage 31
11/26/2017	Shaped Charge	13259	13260	120	3 1/8	22.7	3	Stage 31
11/26/2017	Shaped Charge	13273	13274	120	3 1/8	22.7	3	Stage 31
11/26/2017	Shaped Charge	13287	13288	120	3 1/8	22.7	3	Stage 31
11/26/2017	Shaped Charge	13301	13302	120	3 1/8	22.7	3	Stage 31
11/26/2017	Shaped Charge	13315	13316	120	3 1/8	22.7	4	Stage 31
11/26/2017	Shaped Charge	13329	13330	60	3 1/8	22.7	5	Stage 31
11/26/2017	Shaped Charge	13343	13344	180	3 1/8	22.7	2	Stage 30
11/26/2017	Shaped Charge	13357	13358	180	3 1/8	22.7	2	Stage 30
11/26/2017	Shaped Charge	13371	13372	180	3 1/8	22.7	2	Stage 30
11/26/2017	Shaped Charge	13385	13386	180	3 1/8	22.7	2	Stage 30
11/26/2017	Shaped Charge	13399	13400	180	3 1/8	22.7	2	Stage 30
11/26/2017	Shaped Charge	13413	13414	180	3 1/8	22.7	2	Stage 30
11/26/2017	Shaped Charge	13427	13428	180	3 1/8	22.7	2	Stage 30
11/26/2017	Shaped Charge	13441	13442	180	3 1/8	22.7	3	Stage 30
11/26/2017	Shaped Charge	13455	13456	120	3 1/8	22.7	3	Stage 30
11/26/2017	Shaped Charge	13468	13469	120	3 1/8	22.7	3	Stage 30

11/26/2017	Shaped Charge	13483	13484	120	3 1/8	22.7	3	Stage 30
11/26/2017	Shaped Charge	13497	13498	120	3 1/8	22.7	3	Stage 30
11/26/2017	Shaped Charge	13511	13512	120	3 1/8	22.7	4	Stage 30
11/26/2017	Shaped Charge	13525	13526	60	3 1/8	22.7	5	Stage 30
11/25/2017	Shaped Charge	13539	13540	180	3 1/8	22.7	2	Stage 29
11/25/2017	Shaped Charge	13553	13554	180	3 1/8	22.7	2	Stage 29
11/25/2017	Shaped Charge	13567	13568	180	3 1/8	22.7	2	Stage 29
11/25/2017	Shaped Charge	13581	13582	180	3 1/8	22.7	2	Stage 29
11/25/2017	Shaped Charge	13595	13596	180	3 1/8	22.7	2	Stage 29
11/25/2017	Shaped Charge	13609	13610	180	3 1/8	22.7	2	Stage 29
11/25/2017	Shaped Charge	13623	13624	180	3 1/8	22.7	2	Stage 29
11/25/2017	Shaped Charge	13637	13638	180	3 1/8	22.7	3	Stage 29
11/25/2017	Shaped Charge	13651	13652	120	3 1/8	22.7	3	Stage 29
11/25/2017	Shaped Charge	13665	13666	120	3 1/8	22.7	3	Stage 29
11/25/2017	Shaped Charge	13679	13680	120	3 1/8	22.7	3	Stage 29
11/25/2017	Shaped Charge	13693	13694	120	3 1/8	22.7	3	Stage 29
11/25/2017	Shaped Charge	13707	13708	120	3 1/8	22.7	4	Stage 29
11/25/2017	Shaped Charge	13721	13722	60	3 1/8	22.7	5	Stage 29
11/24/2017	Shaped Charge	13735	13736	180	3 1/8	22.7	2	Stage 28
11/24/2017	Shaped Charge	13751	13752	180	3 1/8	22.7	2	Stage 28
11/24/2017	Shaped Charge	13763	13764	180	3 1/8	22.7	2	Stage 28
11/24/2017	Shaped Charge	13777	13778	180	3 1/8	22.7	2	Stage 28
11/24/2017	Shaped Charge	13790	13791	180	3 1/8	22.7	2	Stage 28
11/24/2017	Shaped Charge	13805	13806	180	3 1/8	22.7	2	Stage 28
11/24/2017	Shaped Charge	13819	13820	180	3 1/8	22.7	2	Stage 28
11/24/2017	Shaped Charge	13834	13835	180	3 1/8	22.7	3	Stage 28
11/24/2017	Shaped Charge	13847	13848	120	3 1/8	22.7	3	Stage 28
11/24/2017	Shaped Charge	13861	13862	120	3 1/8	22.7	3	Stage 28
11/24/2017	Shaped Charge	13877	13878	120	3 1/8	22.7	3	Stage 28
11/24/2017	Shaped Charge	13889	13890	120	3 1/8	22.7	3	Stage 28
11/24/2017	Shaped Charge	13903	13904	120	3 1/8	22.7	4	Stage 28
11/24/2017	Shaped Charge	13917	13918	60	3 1/8	22.7	5	Stage 28
11/24/2017	Shaped Charge	13931	13932	180	3 1/8	22.7	2	Stage 27
11/24/2017	Shaped Charge	13945	13946	180	3 1/8	22.7	2	Stage 27
11/24/2017	Shaped Charge	13959	13960	180	3 1/8	22.7	2	Stage 27
11/24/2017	Shaped Charge	13973	13974	180	3 1/8	22.7	2	Stage 27
11/24/2017	Shaped Charge	13987	13988	180	3 1/8	22.7	2	Stage 27
11/24/2017	Shaped Charge	14001	14002	180	3 1/8	22.7	2	Stage 27
11/24/2017	Shaped Charge	14015	14016	180	3 1/8	22.7	2	Stage 27
11/24/2017	Shaped Charge	14029	14030	180	3 1/8	22.7	3	Stage 27
11/24/2017	Shaped Charge	14041	14042	120	3 1/8	22.7	3	Stage 27
11/24/2017	Shaped Charge	14057	14058	120	3 1/8	22.7	3	Stage 27
11/24/2017	Shaped Charge	14071	14072	120	3 1/8	22.7	3	Stage 27
11/24/2017	Shaped Charge	14085	14086	120	3 1/8	22.7	3	Stage 27
11/24/2017	Shaped Charge	14099	14100	120	3 1/8	22.7	4	Stage 27
11/24/2017	Shaped Charge	14113	14114	60	3 1/8	22.7	5	Stage 27
11/22/2017	Shaped Charge	14130	14131	180	3 1/8	22.7	2	Stage 26
11/22/2017	Shaped Charge	14141	14142	180	3 1/8	22.7	2	Stage 26
11/22/2017	Shaped Charge	14155	14156	180	3 1/8	22.7	2	Stage 26
11/22/2017	Shaped Charge	14169	14170	180	3 1/8	22.7	2	Stage 26
11/22/2017	Shaped Charge	14183	14184	180	3 1/8	22.7	2	Stage 26
11/22/2017	Shaped Charge	14197	14198	180	3 1/8	22.7	2	Stage 26

11/22/2017	Shaped Charge	14213	14214	180	3 1/8	22.7	2	Stage 26
11/22/2017	Shaped Charge	14225	14226	180	3 1/8	22.7	3	Stage 26
11/22/2017	Shaped Charge	14239	14240	120	3 1/8	22.7	3	Stage 26
11/22/2017	Shaped Charge	14253	14254	120	3 1/8	22.7	3	Stage 26
11/22/2017	Shaped Charge	14267	14268	120	3 1/8	22.7	3	Stage 26
11/22/2017	Shaped Charge	14281	14282	120	3 1/8	22.7	3	Stage 26
11/22/2017	Shaped Charge	14295	14296	120	3 1/8	22.7	4	Stage 26
11/22/2017	Shaped Charge	14309	14310	60	3 1/8	22.7	5	Stage 26
11/22/2017	Shaped Charge	14323	14324	180	3 1/8	22.7	2	Stage 25
11/22/2017	Shaped Charge	14336	14337	180	3 1/8	22.7	2	Stage 25
11/22/2017	Shaped Charge	14351	14352	180	3 1/8	22.7	2	Stage 25
11/22/2017	Shaped Charge	14365	14366	180	3 1/8	22.7	2	Stage 25
11/22/2017	Shaped Charge	14379	14380	180	3 1/8	22.7	2	Stage 25
11/22/2017	Shaped Charge	14393	14394	180	3 1/8	22.7	2	Stage 25
11/22/2017	Shaped Charge	14407	14408	180	3 1/8	22.7	2	Stage 25
11/22/2017	Shaped Charge	14421	14422	180	3 1/8	22.7	3	Stage 25
11/22/2017	Shaped Charge	14435	14436	120	3 1/8	22.7	3	Stage 25
11/22/2017	Shaped Charge	14449	14450	120	3 1/8	22.7	3	Stage 25
11/22/2017	Shaped Charge	14463	14464	120	3 1/8	22.7	3	Stage 25
11/22/2017	Shaped Charge	14477	14478	120	3 1/8	22.7	3	Stage 25
11/22/2017	Shaped Charge	14491	14492	120	3 1/8	22.7	4	Stage 25
11/22/2017	Shaped Charge	14505	14506	60	3 1/8	22.7	5	Stage 25
11/21/2017	Shaped Charge	14519	14520	180	3 1/8	22.7	2	Stage 24
11/21/2017	Shaped Charge	14532	14533	180	3 1/8	22.7	2	Stage 24
11/21/2017	Shaped Charge	14547	14548	180	3 1/8	22.7	2	Stage 24
11/21/2017	Shaped Charge	14561	14562	180	3 1/8	22.7	2	Stage 24
11/21/2017	Shaped Charge	14576	14577	180	3 1/8	22.7	2	Stage 24
11/21/2017	Shaped Charge	14589	14590	180	3 1/8	22.7	2	Stage 24
11/21/2017	Shaped Charge	14603	14604	180	3 1/8	22.7	2	Stage 24
11/21/2017	Shaped Charge	14619	14620	180	3 1/8	22.7	3	Stage 24
11/21/2017	Shaped Charge	14631	14632	120	3 1/8	22.7	3	Stage 24
11/21/2017	Shaped Charge	14645	14646	120	3 1/8	22.7	3	Stage 24
11/21/2017	Shaped Charge	14660	14661	120	3 1/8	22.7	3	Stage 24
11/21/2017	Shaped Charge	14673	14674	120	3 1/8	22.7	3	Stage 24
11/21/2017	Shaped Charge	14687	14688	120	3 1/8	22.7	4	Stage 24
11/21/2017	Shaped Charge	14699	14700	60	3 1/8	22.7	5	Stage 24
11/20/2017	Shaped Charge	14715	14716	180	3 1/8	22.7	2	Stage 23
11/20/2017	Shaped Charge	14729	14730	180	3 1/8	22.7	2	Stage 23
11/20/2017	Shaped Charge	14742	14743	180	3 1/8	22.7	2	Stage 23
11/20/2017	Shaped Charge	14757	14758	180	3 1/8	22.7	2	Stage 23
11/20/2017	Shaped Charge	14771	14772	180	3 1/8	22.7	2	Stage 23
11/20/2017	Shaped Charge	14785	14786	180	3 1/8	22.7	2	Stage 23
11/20/2017	Shaped Charge	14799	14800	180	3 1/8	22.7	2	Stage 23
11/20/2017	Shaped Charge	14813	14814	180	3 1/8	22.7	3	Stage 23
11/20/2017	Shaped Charge	14827	14828	120	3 1/8	22.7	3	Stage 23
11/20/2017	Shaped Charge	14841	14842	120	3 1/8	22.7	3	Stage 23
11/20/2017	Shaped Charge	14855	14856	120	3 1/8	22.7	3	Stage 23
11/20/2017	Shaped Charge	14869	14870	120	3 1/8	22.7	3	Stage 23
11/20/2017	Shaped Charge	14883	14884	120	3 1/8	22.7	4	Stage 23
11/20/2017	Shaped Charge	14897	14898	60	3 1/8	22.7	6	Stage 23
11/20/2017	Shaped Charge	14911	14912	180	3 1/8	22.7	2	Stage 22
11/20/2017	Shaped Charge	14925	14926	180	3 1/8	22.7	2	Stage 22

11/20/2017	Shaped Charge	14939	14940	180	3 1/8	22.7	2	Stage 22
11/20/2017	Shaped Charge	14953	14954	180	3 1/8	22.7	2	Stage 22
11/20/2017	Shaped Charge	14967	14968	180	3 1/8	22.7	2	Stage 22
11/20/2017	Shaped Charge	14981	14982	180	3 1/8	22.7	2	Stage 22
11/20/2017	Shaped Charge	14995	14996	180	3 1/8	22.7	2	Stage 22
11/20/2017	Shaped Charge	15009	15010	180	3 1/8	22.7	3	Stage 22
11/20/2017	Shaped Charge	15023	15024	120	3 1/8	22.7	3	Stage 22
11/20/2017	Shaped Charge	15037	15038	120	3 1/8	22.7	3	Stage 22
11/20/2017	Shaped Charge	15051	15052	120	3 1/8	22.7	3	Stage 22
11/20/2017	Shaped Charge	15065	15066	120	3 1/8	22.7	3	Stage 22
11/20/2017	Shaped Charge	15079	15080	120	3 1/8	22.7	4	Stage 22
11/20/2017	Shaped Charge	15093	15094	60	3 1/8	22.7	6	Stage 22
11/19/2017	Shaped Charge	15107	15108	180	3 1/8	22.7	2	Stage 21
11/19/2017	Shaped Charge	15121	15122	180	3 1/8	22.7	2	Stage 21
11/19/2017	Shaped Charge	15135	15136	180	3 1/8	22.7	2	Stage 21
11/19/2017	Shaped Charge	15149	15150	180	3 1/8	22.7	2	Stage 21
11/19/2017	Shaped Charge	15163	15164	180	3 1/8	22.7	2	Stage 21
11/19/2017	Shaped Charge	15177	15178	180	3 1/8	22.7	2	Stage 21
11/19/2017	Shaped Charge	15191	15192	180	3 1/8	22.7	2	Stage 21
11/19/2017	Shaped Charge	15205	15206	180	3 1/8	22.7	3	Stage 21
11/19/2017	Shaped Charge	15219	15220	120	3 1/8	22.7	3	Stage 21
11/19/2017	Shaped Charge	15233	15234	120	3 1/8	22.7	3	Stage 21
11/19/2017	Shaped Charge	15247	15248	120	3 1/8	22.7	3	Stage 21
11/19/2017	Shaped Charge	15261	15262	120	3 1/8	22.7	3	Stage 21
11/19/2017	Shaped Charge	15275	15276	120	3 1/8	22.7	4	Stage 21
11/19/2017	Shaped Charge	15289	15290	60	3 1/8	22.7	6	Stage 21
11/19/2017	Shaped Charge	15303	15304	180	3 1/8	22.7	2	Stage 20
11/19/2017	Shaped Charge	15317	15318	180	3 1/8	22.7	2	Stage 20
11/19/2017	Shaped Charge	15331	15332	180	3 1/8	22.7	2	Stage 20
11/19/2017	Shaped Charge	15345	15346	180	3 1/8	22.7	2	Stage 20
11/19/2017	Shaped Charge	15359	15360	180	3 1/8	22.7	2	Stage 20
11/19/2017	Shaped Charge	15373	15374	180	3 1/8	22.7	2	Stage 20
11/19/2017	Shaped Charge	15387	15388	180	3 1/8	22.7	2	Stage 20
11/19/2017	Shaped Charge	15401	15402	180	3 1/8	22.7	3	Stage 20
11/19/2017	Shaped Charge	15415	15416	120	3 1/8	22.7	3	Stage 20
11/19/2017	Shaped Charge	15429	15430	120	3 1/8	22.7	3	Stage 20
11/19/2017	Shaped Charge	15443	15444	120	3 1/8	22.7	3	Stage 20
11/19/2017	Shaped Charge	15457	15458	120	3 1/8	22.7	3	Stage 20
11/19/2017	Shaped Charge	15471	15472	120	3 1/8	22.7	4	Stage 20
11/19/2017	Shaped Charge	15485	15486	60	3 1/8	22.7	6	Stage 20
11/18/2017	Shaped Charge	15499	15500	180	3 1/8	22.7	2	Stage 19
11/18/2017	Shaped Charge	15513	15514	180	3 1/8	22.7	2	Stage 19
11/18/2017	Shaped Charge	15527	15528	180	3 1/8	22.7	2	Stage 19
11/18/2017	Shaped Charge	15541	15542	180	3 1/8	22.7	2	Stage 19
11/18/2017	Shaped Charge	15555	15556	180	3 1/8	22.7	2	Stage 19
11/18/2017	Shaped Charge	15569	15570	180	3 1/8	22.7	2	Stage 19
11/18/2017	Shaped Charge	15583	15584	180	3 1/8	22.7	2	Stage 19
11/18/2017	Shaped Charge	15597	15598	180	3 1/8	22.7	3	Stage 19
11/18/2017	Shaped Charge	15611	15612	120	3 1/8	22.7	3	Stage 19
11/18/2017	Shaped Charge	15625	15626	120	3 1/8	22.7	3	Stage 19
11/18/2017	Shaped Charge	15639	15640	120	3 1/8	22.7	3	Stage 19
11/18/2017	Shaped Charge	15653	15654	120	3 1/8	22.7	3	Stage 19

11/18/2017	Shaped Charge	15667	15668	120	3 1/8	22.7	4	Stage 19
11/18/2017	Shaped Charge	15681	15682	60	3 1/8	22.7	6	Stage 19
11/18/2017	Shaped Charge	15695	15696	180	3 1/8	22.7	2	Stage 18
11/18/2017	Shaped Charge	15709	15710	180	3 1/8	22.7	2	Stage 18
11/18/2017	Shaped Charge	15723	15724	180	3 1/8	22.7	2	Stage 18
11/18/2017	Shaped Charge	15737	15738	180	3 1/8	22.7	2	Stage 18
11/18/2017	Shaped Charge	15751	15752	180	3 1/8	22.7	2	Stage 18
11/18/2017	Shaped Charge	15765	15766	180	3 1/8	22.7	2	Stage 18
11/18/2017	Shaped Charge	15779	15780	180	3 1/8	22.7	3	Stage 18
11/18/2017	Shaped Charge	15793	15794	120	3 1/8	22.7	3	Stage 18
11/18/2017	Shaped Charge	15807	15808	120	3 1/8	22.7	3	Stage 18
11/18/2017	Shaped Charge	15821	15822	120	3 1/8	22.7	3	Stage 18
11/18/2017	Shaped Charge	15835	15836	120	3 1/8	22.7	3	Stage 18
11/18/2017	Shaped Charge	15849	15850	120	3 1/8	22.7	4	Stage 18
11/18/2017	Shaped Charge	15863	15864	60	3 1/8	22.7	6	Stage 18
11/17/2017	Shaped Charge	15891	15892	180	3 1/8	22.7	2	Stage 17
11/17/2017	Shaped Charge	15905	15906	180	3 1/8	22.7	2	Stage 17
11/17/2017	Shaped Charge	15919	15920	180	3 1/8	22.7	2	Stage 17
11/17/2017	Shaped Charge	15933	15934	180	3 1/8	22.7	2	Stage 17
11/17/2017	Shaped Charge	15947	15948	180	3 1/8	22.7	2	Stage 17
11/17/2017	Shaped Charge	15961	15962	180	3 1/8	22.7	2	Stage 17
11/17/2017	Shaped Charge	15975	15976	180	3 1/8	22.7	2	Stage 17
11/17/2017	Shaped Charge	15989	15990	180	3 1/8	22.7	3	Stage 17
11/17/2017	Shaped Charge	16003	16004	120	3 1/8	22.7	3	Stage 17
11/17/2017	Shaped Charge	16017	16018	120	3 1/8	22.7	3	Stage 17
11/17/2017	Shaped Charge	16031	16032	120	3 1/8	22.7	3	Stage 17
11/17/2017	Shaped Charge	16045	16046	120	3 1/8	22.7	3	Stage 17
11/17/2017	Shaped Charge	16059	16060	120	3 1/8	22.7	4	Stage 17
11/17/2017	Shaped Charge	16073	16074	60	3 1/8	22.7	6	Stage 17
11/17/2017	Shaped Charge	16087	16088	180	3 1/8	22.7	2	Stage 16
11/17/2017	Shaped Charge	16101	16102	180	3 1/8	22.7	2	Stage 16
11/17/2017	Shaped Charge	16115	16116	180	3 1/8	22.7	2	Stage 16
11/17/2017	Shaped Charge	16129	16130	180	3 1/8	22.7	2	Stage 16
11/17/2017	Shaped Charge	16143	16144	180	3 1/8	22.7	2	Stage 16
11/17/2017	Shaped Charge	16157	16158	180	3 1/8	22.7	2	Stage 16
11/17/2017	Shaped Charge	16171	16172	180	3 1/8	22.7	3	Stage 16
11/17/2017	Shaped Charge	16185	16186	120	3 1/8	22.7	3	Stage 16
11/17/2017	Shaped Charge	16199	16200	120	3 1/8	22.7	3	Stage 16
11/17/2017	Shaped Charge	16213	16214	120	3 1/8	22.7	3	Stage 16
11/17/2017	Shaped Charge	16227	16228	120	3 1/8	22.7	3	Stage 16
11/17/2017	Shaped Charge	16241	16242	120	3 1/8	22.7	4	Stage 16
11/17/2017	Shaped Charge	16255	16256	60	3 1/8	22.7	6	Stage 16
11/16/2017	Shaped Charge	16283	16284	180	3 1/8	22.7	2	Stage 15
11/16/2017	Shaped Charge	16297	16298	180	3 1/8	22.7	2	Stage 15
11/16/2017	Shaped Charge	16311	16312	180	3 1/8	22.7	2	Stage 15
11/16/2017	Shaped Charge	16325	16326	180	3 1/8	22.7	2	Stage 15
11/16/2017	Shaped Charge	16339	16340	180	3 1/8	22.7	2	Stage 15
11/16/2017	Shaped Charge	16353	16354	180	3 1/8	22.7	2	Stage 15
11/16/2017	Shaped Charge	16367	16368	180	3 1/8	22.7	2	Stage 15
11/16/2017	Shaped Charge	16381	16382	180	3 1/8	22.7	3	Stage 15
11/16/2017	Shaped Charge	16395	16396	120	3 1/8	22.7	3	Stage 15
11/16/2017	Shaped Charge	16409	16410	120	3 1/8	22.7	3	Stage 15

11/16/2017	Shaped Charge	16423	16424	120	3 1/8	22.7	3	Stage 15
11/16/2017	Shaped Charge	16437	16438	120	3 1/8	22.7	3	Stage 15
11/16/2017	Shaped Charge	16451	16452	120	3 1/8	22.7	4	Stage 15
11/16/2017	Shaped Charge	16465	16466	60	3 1/8	22.7	6	Stage 15
11/15/2017	Shaped Charge	16507	16508	180	3 1/8	22.7	2	Stage 14
11/15/2017	Shaped Charge	16521	16522	180	3 1/8	22.7	2	Stage 14
11/15/2017	Shaped Charge	16535	16536	180	3 1/8	22.7	2	Stage 14
11/15/2017	Shaped Charge	16549	16550	180	3 1/8	22.7	2	Stage 14
11/15/2017	Shaped Charge	16563	16564	180	3 1/8	22.7	2	Stage 14
11/15/2017	Shaped Charge	16577	16578	180	3 1/8	22.7	3	Stage 14
11/15/2017	Shaped Charge	16591	16592	120	3 1/8	22.7	3	Stage 14
11/15/2017	Shaped Charge	16605	16606	120	3 1/8	22.7	3	Stage 14
11/15/2017	Shaped Charge	16619	16620	120	3 1/8	22.7	3	Stage 14
11/15/2017	Shaped Charge	16633	16634	120	3 1/8	22.7	3	Stage 14
11/15/2017	Shaped Charge	16647	16648	120	3 1/8	22.7	4	Stage 14
11/15/2017	Shaped Charge	16661	16662	60	3 1/8	22.7	6	Stage 14
11/15/2017	Shaped Charge	16675	16676	180	3 1/8	22.7	2	Stage 13
11/15/2017	Shaped Charge	16689	16690	180	3 1/8	22.7	2	Stage 13
11/15/2017	Shaped Charge	16703	16704	180	3 1/8	22.7	2	Stage 13
11/15/2017	Shaped Charge	16717	16718	180	3 1/8	22.7	2	Stage 13
11/15/2017	Shaped Charge	16731	16732	180	3 1/8	22.7	2	Stage 13
11/15/2017	Shaped Charge	16745	16746	180	3 1/8	22.7	2	Stage 13
11/15/2017	Shaped Charge	16759	16760	180	3 1/8	22.7	2	Stage 13
11/15/2017	Shaped Charge	16773	16774	180	3 1/8	22.7	3	Stage 13
11/15/2017	Shaped Charge	16787	16788	120	3 1/8	22.7	3	Stage 13
11/15/2017	Shaped Charge	16801	16802	120	3 1/8	22.7	3	Stage 13
11/15/2017	Shaped Charge	16815	16816	120	3 1/8	22.7	3	Stage 13
11/15/2017	Shaped Charge	16829	16830	120	3 1/8	22.7	3	Stage 13
11/15/2017	Shaped Charge	16843	16844	120	3 1/8	22.7	4	Stage 13
11/15/2017	Shaped Charge	16857	16858	60	3 1/8	22.7	6	Stage 13
11/15/2017	Shaped Charge	16871	16872	180	3 1/8	22.7	2	Stage 12
11/15/2017	Shaped Charge	16885	16886	180	3 1/8	22.7	2	Stage 12
11/15/2017	Shaped Charge	16899	16900	180	3 1/8	22.7	2	Stage 12
11/15/2017	Shaped Charge	16913	16914	180	3 1/8	22.7	2	Stage 12
11/15/2017	Shaped Charge	16927	16928	180	3 1/8	22.7	2	Stage 12
11/15/2017	Shaped Charge	16941	16942	180	3 1/8	22.7	2	Stage 12
11/15/2017	Shaped Charge	16955	16956	180	3 1/8	22.7	2	Stage 12
11/15/2017	Shaped Charge	16969	16970	180	3 1/8	22.7	3	Stage 12
11/15/2017	Shaped Charge	16983	16984	120	3 1/8	22.7	3	Stage 12
11/15/2017	Shaped Charge	16997	16998	120	3 1/8	22.7	3	Stage 12
11/15/2017	Shaped Charge	17009	17010	120	3 1/8	22.7	3	Stage 12
11/15/2017	Shaped Charge	17025	17026	120	3 1/8	22.7	3	Stage 12
11/15/2017	Shaped Charge	17039	17040	120	3 1/8	22.7	4	Stage 12
11/15/2017	Shaped Charge	17053	17054	60	3 1/8	22.7	6	Stage 12
11/9/2017	Shaped Charge	17067	17068		3 1/8		2	Stage 11
11/9/2017	Shaped Charge	17081	17082		3 1/8		2	Stage 11
11/9/2017	Shaped Charge	17094	17095		3 1/8		2	Stage 11
11/9/2017	Shaped Charge	17109	17110		3 1/8		2	Stage 11
11/9/2017	Shaped Charge	17123	17124		3 1/8		2	Stage 11
11/9/2017	Shaped Charge	17138	17139		3 1/8		2	Stage 11
11/9/2017	Shaped Charge	17151	17152		3 1/8		2	Stage 11
11/9/2017	Shaped Charge	17165	17166		3 1/8		3	Stage 11

11/9/2017	Shaped Charge	17179	17180		3 1/8		3	Stage 11
11/9/2017	Shaped Charge	17193	17194		3 1/8		3	Stage 11
11/9/2017	Shaped Charge	17201	17202		3 1/8		3	Stage 11
11/9/2017	Shaped Charge	17221	17222		3 1/8		3	Stage 11
11/9/2017	Shaped Charge	17235	17236		3 1/8		4	Stage 11
11/9/2017	Shaped Charge	17248	17249		3 1/8		6	Stage 11
11/9/2017	Shaped Charge	17263	17264	180	3 1/8	22.7	2	Stage 10
11/9/2017	Shaped Charge	17277	17278	180	3 1/8	22.7	2	Stage 10
11/9/2017	Shaped Charge	17291	17292	180	3 1/8	22.7	2	Stage 10
11/9/2017	Shaped Charge	17305	17306	180	3 1/8	22.7	2	Stage 10
11/9/2017	Shaped Charge	17319	17320	180	3 1/8	22.7	2	Stage 10
11/9/2017	Shaped Charge	17333	17334	180	3 1/8	22.7	2	Stage 10
11/9/2017	Shaped Charge	17347	17348	180	3 1/8	22.7	2	Stage 10
11/9/2017	Shaped Charge	17361	17362	180	3 1/8	22.7	3	Stage 10
11/9/2017	Shaped Charge	17375	17376	120	3 1/8	22.7	3	Stage 10
11/9/2017	Shaped Charge	17389	17390	120	3 1/8	22.7	3	Stage 10
11/9/2017	Shaped Charge	17403	17404	120	3 1/8	22.7	3	Stage 10
11/9/2017	Shaped Charge	17417	17418	120	3 1/8	22.7	3	Stage 10
11/9/2017	Shaped Charge	17431	17432	120	3 1/8	22.7	4	Stage 10
11/9/2017	Shaped Charge	17445	17446	60	3 1/8	22.7	6	Stage 10
11/8/2017	Shaped Charge	17459	17460		3 1/8		2	Stage 9
11/8/2017	Shaped Charge	17473	17474		3 1/8		2	Stage 9
11/8/2017	Shaped Charge	17487	17488		3 1/8		2	Stage 9
11/8/2017	Shaped Charge	17501	17502		3 1/8		2	Stage 9
11/8/2017	Shaped Charge	17515	17516		3 1/8		2	Stage 9
11/8/2017	Shaped Charge	17529	17530		3 1/8		2	Stage 9
11/8/2017	Shaped Charge	17543	17544		3 1/8		2	Stage 9
11/8/2017	Shaped Charge	17557	17558		3 1/8		3	Stage 9
11/8/2017	Shaped Charge	17571	17572		3 1/8		3	Stage 9
11/8/2017	Shaped Charge	17585	17586		3 1/8		3	Stage 9
11/8/2017	Shaped Charge	17599	17600		3 1/8		3	Stage 9
11/8/2017	Shaped Charge	17613	17614		3 1/8		3	Stage 9
11/8/2017	Shaped Charge	17627	17628		3 1/8		4	Stage 9
11/8/2017	Shaped Charge	17641	17642		3 1/8		6	Stage 9
11/8/2017	Shaped Charge	17655	17656	180	3 1/8	22.7	2	Stage 8
11/8/2017	Shaped Charge	17669	17670	180	3 1/8	22.7	2	Stage 8
11/8/2017	Shaped Charge	17683	17684	180	3 1/8	22.7	2	Stage 8
11/8/2017	Shaped Charge	17697	17698	180	3 1/8	22.7	2	Stage 8
11/8/2017	Shaped Charge	17711	17712	180	3 1/8	22.7	2	Stage 8
11/8/2017	Shaped Charge	17725	17726	180	3 1/8	22.7	2	Stage 8
11/8/2017	Shaped Charge	17739	17740	180	3 1/8	22.7	2	Stage 8
11/8/2017	Shaped Charge	17753	17754	180	3 1/8	22.7	3	Stage 8
11/8/2017	Shaped Charge	17767	17768	120	3 1/8	22.7	3	Stage 8
11/8/2017	Shaped Charge	17781	17782	120	3 1/8	22.7	3	Stage 8
11/8/2017	Shaped Charge	17795	17796	120	3 1/8	22.7	3	Stage 8
11/8/2017	Shaped Charge	17809	17810	120	3 1/8	22.7	3	Stage 8
11/8/2017	Shaped Charge	17823	17824	120	3 1/8	22.7	4	Stage 8
11/8/2017	Shaped Charge	17837	17838	60	3 1/8	22.7	6	Stage 8
11/7/2017	Shaped Charge	17851	17852	180	3 1/8	22.7	2	Stage 7
11/7/2017	Shaped Charge	17865	17866	180	3 1/8	22.7	2	Stage 7
11/7/2017	Shaped Charge	17877	17878	180	3 1/8	22.7	2	Stage 7
11/7/2017	Shaped Charge	17893	17894	180	3 1/8	22.7	2	Stage 7

11/7/2017	Shaped Charge	17907	17908	180	3 1/8	22.7	2	Stage 7
11/7/2017	Shaped Charge	17921	17922	180	3 1/8	22.7	2	Stage 7
11/7/2017	Shaped Charge	17935	17936	180	3 1/8	22.7	2	Stage 7
11/7/2017	Shaped Charge	17949	17950	180	3 1/8	22.7	3	Stage 7
11/7/2017	Shaped Charge	17963	17964	120	3 1/8	22.7	3	Stage 7
11/7/2017	Shaped Charge	17977	17978	120	3 1/8	22.7	3	Stage 7
11/7/2017	Shaped Charge	17991	17992	120	3 1/8	22.7	3	Stage 7
11/7/2017	Shaped Charge	18005	18006	120	3 1/8	22.7	3	Stage 7
11/7/2017	Shaped Charge	18019	18020	120	3 1/8	22.7	4	Stage 7
11/7/2017	Shaped Charge	18031	18032	60	3 1/8	22.7	6	Stage 7
11/7/2017	Shaped Charge	18046	18047	180	3 1/8	22.7	2	Stage 6
11/7/2017	Shaped Charge	18060	18061	180	3 1/8	22.7	2	Stage 6
11/7/2017	Shaped Charge	18074	18075	180	3 1/8	22.7	2	Stage 6
11/7/2017	Shaped Charge	18088	18089	180	3 1/8	22.7	2	Stage 6
11/7/2017	Shaped Charge	18102	18103	180	3 1/8	22.7	2	Stage 6
11/7/2017	Shaped Charge	18116	18117	180	3 1/8	22.7	2	Stage 6
11/7/2017	Shaped Charge	18130	18131	180	3 1/8	22.7	2	Stage 6
11/7/2017	Shaped Charge	18144	18145	180	3 1/8	22.7	3	Stage 6
11/7/2017	Shaped Charge	18158	18159	120	3 1/8	22.7	3	Stage 6
11/7/2017	Shaped Charge	18172	18173	120	3 1/8	22.7	3	Stage 6
11/7/2017	Shaped Charge	18186	18187	120	3 1/8	22.7	3	Stage 6
11/7/2017	Shaped Charge	18200	18201	120	3 1/8	22.7	3	Stage 6
11/7/2017	Shaped Charge	18215	18216	120	3 1/8	22.7	4	Stage 6
11/7/2017	Shaped Charge	18229	18230	60	3 1/8	22.7	6	Stage 6
11/6/2017	Shaped Charge	18243	18244	180	3 1/8	22.7	2	Stage 5
11/6/2017	Shaped Charge	18257	18258	180	3 1/8	22.7	2	Stage 5
11/6/2017	Shaped Charge	18271	18272	180	3 1/8	22.7	2	Stage 5
11/6/2017	Shaped Charge	18285	18286	180	3 1/8	22.7	2	Stage 5
11/6/2017	Shaped Charge	18299	18300	180	3 1/8	22.7	2	Stage 5
11/6/2017	Shaped Charge	18313	18314	180	3 1/8	22.7	2	Stage 5
11/6/2017	Shaped Charge	18327	18328	180	3 1/8	22.7	2	Stage 5
11/6/2017	Shaped Charge	18341	18342	180	3 1/8	22.7	3	Stage 5
11/6/2017	Shaped Charge	18355	18356	120	3 1/8	22.7	3	Stage 5
11/6/2017	Shaped Charge	18369	18370	120	3 1/8	22.7	3	Stage 5
11/6/2017	Shaped Charge	18383	18384	120	3 1/8	22.7	3	Stage 5
11/6/2017	Shaped Charge	18397	18398	120	3 1/8	22.7	3	Stage 5
11/6/2017	Shaped Charge	18411	18412	120	3 1/8	22.7	4	Stage 5
11/6/2017	Shaped Charge	18425	18426	60	3 1/8	22.7	5	Stage 5
11/5/2017	Shaped Charge	18439	18440	180	3 1/8	22.7	2	Stage 4
11/5/2017	Shaped Charge	18453	18454	180	3 1/8	22.7	2	Stage 4
11/5/2017	Shaped Charge	18467	18468	180	3 1/8	22.7	2	Stage 4
11/5/2017	Shaped Charge	18481	18482	180	3 1/8	22.7	2	Stage 4
11/5/2017	Shaped Charge	18495	18496	180	3 1/8	22.7	2	Stage 4
11/5/2017	Shaped Charge	18509	18510	180	3 1/8	22.7	2	Stage 4
11/5/2017	Shaped Charge	18523	18524	180	3 1/8	22.7	2	Stage 4
11/5/2017	Shaped Charge	18537	18538	180	3 1/8	22.7	3	Stage 4
11/5/2017	Shaped Charge	18551	18552	120	3 1/8	22.7	3	Stage 4
11/5/2017	Shaped Charge	18565	18566	120	3 1/8	22.7	3	Stage 4
11/5/2017	Shaped Charge	18579	18580	120	3 1/8	22.7	3	Stage 4
11/5/2017	Shaped Charge	18593	18594	120	3 1/8	22.7	3	Stage 4
11/5/2017	Shaped Charge	18607	18608	120	3 1/8	22.7	4	Stage 4
11/5/2017	Shaped Charge	18621	18622	60	3 1/8	22.7	5	Stage 4

11/5/2017	Shaped Charge	18635	18636	180	3 1/8	22.7	2	Stage 3
11/5/2017	Shaped Charge	18649	18650	180	3 1/8	22.7	2	Stage 3
11/5/2017	Shaped Charge	18663	18664	180	3 1/8	22.7	2	Stage 3
11/5/2017	Shaped Charge	18677	18678	180	3 1/8	22.7	2	Stage 3
11/5/2017	Shaped Charge	18691	18692	180	3 1/8	22.7	2	Stage 3
11/5/2017	Shaped Charge	18705	18706	180	3 1/8	22.7	2	Stage 3
11/5/2017	Shaped Charge	18719	18720	180	3 1/8	22.7	2	Stage 3
11/5/2017	Shaped Charge	18732	18733	120	3 1/8	22.7	3	Stage 3
11/5/2017	Shaped Charge	18747	18748	120	3 1/8	22.7	3	Stage 3
11/5/2017	Shaped Charge	18761	18762	120	3 1/8	22.7	3	Stage 3
11/5/2017	Shaped Charge	18776	18777	120	3 1/8	22.7	3	Stage 3
11/5/2017	Shaped Charge	18789	18790	120	3 1/8	22.7	3	Stage 3
11/5/2017	Shaped Charge	18803	18804	60	3 1/8	22.7	4	Stage 3
11/5/2017	Shaped Charge	18816	18817	60	3 1/8	22.7	5	Stage 3
11/4/2017	Shaped Charge	18831	18832	180	3 1/8	22.7	2	Stage 2
11/4/2017	Shaped Charge	18845	18846	180	3 1/8	22.7	2	Stage 2
11/4/2017	Shaped Charge	18854	18855	180	3 1/8	22.7	2	Stage 2
11/4/2017	Shaped Charge	18873	18874	180	3 1/8	22.7	2	Stage 2
11/4/2017	Shaped Charge	18887	18888	180	3 1/8	22.7	2	Stage 2
11/4/2017	Shaped Charge	18901	18902	180	3 1/8	22.7	2	Stage 2
11/4/2017	Shaped Charge	18915	18916	180	3 1/8	22.7	2	Stage 2
11/4/2017	Shaped Charge	18929	18930	180	3 1/8	22.7	3	Stage 2
11/4/2017	Shaped Charge	18943	18944	120	3 1/8	22.7	3	Stage 2
11/4/2017	Shaped Charge	18957	18958	120	3 1/8	22.7	3	Stage 2
11/4/2017	Shaped Charge	18971	18972	120	3 1/8	22.7	3	Stage 2
11/4/2017	Shaped Charge	18985	18986	120	3 1/8	22.7	3	Stage 2
11/4/2017	Shaped Charge	18999	19000	120	3 1/8	22.7	4	Stage 2
11/4/2017	Shaped Charge	19013	19014	60	3 1/8	22.7	6	Stage 2
11/3/2017	Shaped Charge	19027	19028	180	3 1/8	22.7	2	Stage 1
11/3/2017	Shaped Charge	19041	19042	180	3 1/8	22.7	2	Stage 1
11/3/2017	Shaped Charge	19055	19056	180	3 1/8	22.7	2	Stage 1
11/3/2017	Shaped Charge	19069	19070	180	3 1/8	22.7	2	Stage 1
11/3/2017	Shaped Charge	19083	19084	180	3 1/8	22.7	2	Stage 1
11/3/2017	Shaped Charge	19097	19098	180	3 1/8	22.7	2	Stage 1
11/3/2017	Shaped Charge	19111	19112	180	3 1/8	22.7	3	Stage 1
11/3/2017	Shaped Charge	19125	19126	120	3 1/8	22.7	3	Stage 1
11/3/2017	Shaped Charge	19139	19140	120	3 1/8	22.7	3	Stage 1
11/3/2017	Shaped Charge	19153	19154	120	3 1/8	22.7	3	Stage 1
11/3/2017	Shaped Charge	19167	19168	120	3 1/8	22.7	3	Stage 1
11/3/2017	Shaped Charge	19181	19182	120	3 1/8	22.7	4	Stage 1
11/3/2017	Shaped Charge	19195	19196	60	3 1/8	22.7	6	Stage 1

SD WE 24 FED P24 7H **30-025-43675**
DRILLED NEW OIL WELL AS FOLLOWS:

08/10/2017: Spud well. Drill 17 1/2" surface hole 152' – 672'.

SURFACE CASING

8/10/2017: Run 13 3/8", 54.5#, J-55 STC casing to 662'. Cement in place.
Cemented w/TAI 844 sx Class C. Density: 14.80, Yield: 1.33, Fluid Mix Ratio: 6.37. Returns to surface:
105 bbls of cement to surface.

Displace cement with 92 bbls of FW. Bump plug, hold 600 psi over. Plug bumped on calculated displacement.

8/21/2017: Install test plug. Fill stack & choke manifold. Test full BOPE to 250 psi low/5000 psi high. (3500 high on annular). Tag @ 587'. Test 13 3/8" surface casing to 1,500 psi for 30 minutes. Good test. Drill out float equip, cement, rathole and 10' of new formation to 682'.

8/21/2017-8/22/2017: Drill 12 1/4" intermediate hole 672'-4,546'

INTERMEDIATE CASING

8/24/2017: Run 9 5/8", 40#, L-80 LTC casing & set @ 4,536'.
Cemented w/LEAD 1,025 sx Class C, Density: 11.90, Yield: 2.43, Fluid mix ratio: 13.97; TAIL 462 sx Class C, Density: 14.80, Yield: 1.33, Fluid Mix Ratio: 6.36.

Displace cement w/334 bbls OBM. Bump plug w/500 psi over final circ pressure. Cement to surface: 227 bbls cement. Full returns throughout job. Plug bumped at calc displacement.

Install pack off. Test to 5000 psi for 15 mins. Good test.

8/25/2017: Full BOPE test. TOC @ 4,449'. Test 9 5/8" casing to 2,800 PSI for 30 minutes, test good. Drill out float equip, cement, rathole and 10' of formation to 4,556'.

8/25/2017 – 9/6/2017: Drill 8 1/2" production hole 4,546'-19,371' TD

PRODUCTION CASING

9/6/2017: Run 5 1/2", 20#, HCP-110 BTC casing to 19,363'.

9/8/2017: Cemented w/LEAD 646 sx, Class H, Density: 11.50, Yield: 2.51, Fluid mix ratio: 15.51.
LEAD 1,853 sx, Class H, Density: 12.50, Yield: 1.62, Fluid mix ratio: 9.64.

TAIL 113 sx, Class H, Density: 15.00, Yield: 2.18, Fluid Mix Ratio: 11.42.

Displace cmt w/425 bbls of FW. Bump plug. Hold 500 psi over.

77 bbls of cement to surface, full returns throughout job. Plug bumped on proper displacement.

Conduct 30 min inflow/negative test witnessed by Cade Jackson. WOC and released rig.

COMPLETED NEW DRILL AS FOLLOWS:

TOC @ 1,050', PBTD @ 19,315'

10/29/2017: MIRU. TIH GR/JB/CBL @ 9,270'. Log well from 9,270' to surface.

10/31/2017: Test Production casing to 9800 psi 30 min. Good. MIRU frac equipment

11/1/17 – 11/2/17: Waiting on WL to perforate

11/3/17 – 11/9/17: Perf & frac 11 stages Upper Bone Spring from 17,067'-19,196'.

11/10/17 – 11/13/17: Wire stuck, RU CTU for fishing job.

11/14/2017: Tagged fish @ 17,264, POOH. RD CTU

11/15/17 – 12/8/17: Perf & frac stages 12-51, Upper Bone Spring from 9,227'-17,054'.

Perforation/Frac/Stimulation Details

Date	Top (FtKB)	Btm (FtKB)	Sand Pumped	Total Sand (Lbs)	Clean Fl./BBLS	Slur Vol/BBLS
12/8/2017	9,227	9,410	Sand 100 & 30/50	313,366	9,966	10,306
12/7/2017	9,423	9,606	Sand 100 & 30/50	320,396	9,355	9,702
12/7/2017	9,619	9,802	Sand 100 & 30/50	318,988	9,640	9,986
12/6/2017	9,817	9,998	Sand 100 & 30/50	318,364	9,513	9,858
12/6/2017	10,011	10,194	Sand 100 & 30/50	318,272	9,529	9,876
12/5/2017	10,207	10,390	Sand 100 & 30/50	318,272	9,310	9,654
12/4/2017	10,405	10,585	Sand 100 & 30/50	321,488	9,957	10,305
12/3/2017	10,599	10,782	Sand 100 & 30/50	320,724	11,358	11,706
12/3/2017	10,795	10,978	Sand 100 & 30/50	321,026	9,559	9,907
12/3/2017	10,991	11,174	Sand 100 & 30/50	322,736	9,638	9,988
12/2/2017	11,187	11,370	Sand 100 & 30/50	321,350	9,562	9,909
12/2/2017	11,383	11,566	Sand 100 & 30/50	319,949	9,585	9,931
12/1/2017	11,579	11,762	Sand 100 & 30/50	320,320	9,286	9,633
11/30/2017	11,775	11,958	Sand 100 & 30/50	318,484	9,784	10,129
11/30/2017	11,971	12,153	Sand 100 & 30/50	325,257	9,665	10,018
11/29/2017	12,167	12,351	Sand 100 & 30/50	319,979	9,504	9,852
11/29/2017	12,363	12,545	Sand 100 & 30/50	323,515	9,850	10,201
11/28/2017	12,560	12,742	Sand 100 & 30/50	320,554	9,417	9,765
11/27/2017	12,755	12,938	Sand 100 & 30/50	320,237	9,351	9,698
11/27/2017	12,951	13,129	Sand 100 & 30/50	321,310	10,203	10,551
11/26/2017	13,147	13,330	Sand 100 & 30/50	320,830	9,568	9,916
11/25/2017	13,343	13,526	Sand 100 & 30/50	321,043	10,268	10,615
11/25/2017	13,539	13,722	Sand 100 & 30/50	320,588	9,459	9,806
11/24/2017	13,735	13,918	Sand 100 & 30/50	317,234	9,355	9,699
11/24/2017	13,931	14,114	Sand 100 & 30/50	321,409	10,716	11,064
11/22/2017	14,130	14,310	Sand 100 & 30/50	321,336	9,597	9,945
11/22/2017	14,323	14,506	Sand 100 & 30/50	321,286	10,125	10,473
11/21/2017	14,519	14,699	Sand 100 & 30/50	321,905	9,674	10,023
11/20/2017	14,715	14,898	Sand 100 & 30/50	321,511	9,930	10,278
11/20/2017	14,911	15,094	Sand 100 & 30/50	326,434	10,014	10,368
11/19/2017	15,107	15,290	Sand 100 & 30/50	320,550	10,132	10,480
11/19/2017	15,303	16,485	Sand 100 & 30/50	324,768	9,949	10,300
11/18/2017	15,499	15,682	Sand 100 & 30/50	320,167	10,628	10,974
11/18/2017	15,695	15,878	Sand 100 & 30/50	319,921	12,513	12,860
11/17/2017	15,891	16,074	Sand 100 & 30/50	323,197	11,387	11,737
11/17/2017	16,087	16,270	Sand 100 & 30/50	322,067	10,296	10,644
11/16/2017	16,283	16,466	Sand 100 & 30/50	321,583	11,186	11,534

11/15/2017	16,507	16,662	Sand 100 & 30/50	175,894	10,118	10,309
11/15/2017	16,675	16,858	Sand 100 & 30/50	322,625	7,699	8,049
11/15/2017	16,871	17,054	Sand 100 & 30/50	321,224	10,522	10,870
11/9/2017	17,067	17,249	Sand 100 & 30/50	310,582	10,948	11,285
11/9/2017	17,263	17,446	Sand 100 & 30/50	319,426	12,435	12,781
11/8/2017	17,459	17,642	Sand 100 & 30/50	320,804	9,745	10,092
11/8/2017	17,655	17,838	Sand 100 & 30/50	318,543	10,207	10,552
11/7/2017	17,851	18,032	Sand 100 & 30/50	293,700	10,681	11,001
11/7/2017	18,046	18,230	Sand 100, PW 40/70 & 30/50	322,480	11,881	12,231
11/6/2017	18,243	18,426	Sand 100, PW 40/70 & 30/50	320,961	9,749	10,098
11/5/2017	18,439	18,622	Sand 100 & PW 40/70	322,032	9,819	10,173
11/5/2017	18,635	18,817	Sand 100 & PW 40/70	321,975	10,449	10,803
11/4/2017	18,829	18,981	Sand 100 & PW 40/70	322,436	9,042	9,396
11/3/2017	19,027	19,196	Sand 100 & PW 40/70	321,610	8,341	8,693

11/3/2017 - 12/8/2017 : Perf and frac 51 stages, Upper Bone Spring, from 9,227' - 19,196'. Frac with **total Proppant 16,184,708 lbs.**

12/8/17: Waiting on CTU

12/22/17-12/30/17: RU CTU, casing cleanout, RD

1/9/2018: Test BOPE before NU. Ran 2 7/8" tubing set @ 8,826'. Packer @ 8,812'

1/11/2018: Release rig

1/18/2018: Place well on production

2/8/2018: On 24 hour OPT flowing:

Oil – 1,513

Gas – 2,276

Water – 1,734

GOR – 1,504

Tubing PSI – 780

Casing PSI – 614

Choke – 64/64

TOC – 1,050'