

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

RECEIVED

JUN 04 2021

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

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

Lease Serial No.  
WYVW60401A

1a. Type of Well <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Dry <input type="checkbox"/> Other		6. If Indian, Allottee or Tribe Name
b. Type of Completion <input checked="" type="checkbox"/> New Well <input type="checkbox"/> Work Over <input type="checkbox"/> Deepen <input type="checkbox"/> Plug Back <input type="checkbox"/> Diff. Resvr. Other _____		7. Unit or CA Agreement Name and No.
2. Name of Operator ANSCHUTZ OIL COMPANY LLC Contact: FRANCES E MACDONALD E-Mail: frances.macdonald@aec-denver.com		8. Lease Name and Well No. SAM FED 3571-18-19-13TH
3. Address 555 17TH STREET, SUITE 2400 DENVER, CO 80202		9. API Well No. 49-009-31384-00-S1
4. Location of Well (Report location clearly and in accordance with Federal requirements)* Sec 18 T35N R71W Mer 6PM At surface NENW 506FNL 1742FWL 43.011995 N Lat, 105.429956 W Lon Sec 18 T35N R71W Mer 6PM At top prod interval reported below NENW 1075FNL 1308FWL 43.010427 N Lat, 105.43157846 W Lon Sec 30 T35N R71W Mer 6PM At total depth NENW 14FNL 1278FWL 42.98405502 N Lat, 105.43163289W Lon		10. Field and Pool, or Exploratory WILDCAT
14. Date Spudded 09/25/2019		11. Sec., T., R., M., or Block and Survey or Area Sec 18 T35N R71W Mer 6PM
15. Date T.D. Reached 11/20/2019		12. County or Parish CONVERSE
16. Date Completed <input type="checkbox"/> D & A <input checked="" type="checkbox"/> Ready to Prod. 01/07/2020		13. State WY
17. Elevations (DF, KB, RT, GL)* 5256 KB		
18. Total Depth: MD 22115 TVD 12109	19. Plug Back T.D.: MD 21,934 TVD 12,107	20. Depth Bridge Plug Set: MD TVD
21. Type Electric & Other Mechanical Logs Run (Submit copy of each) MWD GR		22. Was well cored? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes (Submit analysis) Was DST run? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes (Submit analysis) Directional Survey? <input type="checkbox"/> No <input checked="" type="checkbox"/> 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 Cementer Depth	No. of Sk. & Type of Cement	Slurry Vol. (BBL)	Cement Top*	Amount Pulled
13.500	10.750 J55	40.5	0	2030		685	270	0	90 X
9.875	7.625 HCP 110	29.7	0	X 10760		700	262	4126	0
6.750	5.500 HCP 110	20.0	0	X 11408		903	301	9630	0
	4.5 HCP 110		11445	22108					

24. Tubing Record

Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)

25. Producing Intervals

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) TURNER	21840	12499	21840 TO 12499	0.360	888	OPEN
B)						
C)						
D)						

26. Perforation Record

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

Depth Interval	Amount and Type of Material
21840 TO 12499	FRACTURE 58,095 BBL SLICKWATER, 870 BBL HCL, 62,406 HVFR BBL PSI MIN 471 MAX 9337
21840 TO 12499	FRACTURE CONT'D, FRAC STAGES 38, 8,424,020 # 40/70 MESH

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
02/10/2020	02/18/2020	24	→	1158.0	1238.0	649.0	38.6		FLOWS FROM WELL
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	
20	2300	0.0	→	1158	1238	649	1069	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. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	
			→						

Missing as of 6/15/21:

Csg strings do not match attached WBD

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

ELECTRONIC SUBMISSION #509454 VERIFIED BY THE BLM WELL INFORMATION SYSTEM

\*\* BLM REVISED \*\* BLM REVISED \*\* BLM REVISED \*\* BLM REVISED \*\* BLM REVISED \*\*

## 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.)  
CAPTURED

## 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
FOX HILLS	6637	6759	POSSIBLE WATER	LANCE	3559
TECKLA	7387	8221	POSSIBLE OIL, GAS	FOX HILLS	6637
TEAPOT	8221	8656	POSSIBLE OIL, GAS	LEWIS	6759
PARKMAN	8656	9253	POSSIBLE OIL, GAS	TECKLA	7387
NIOBRARA	11450	12059	POSSIBLE OIL, GAS	TEAPOT	8221
				PARKMAN	8656
				TURNER	12343

## 32. Additional remarks (include plugging procedure):

Attachments  
1) Directional Survey  
2) Post Job Chemicals  
3) Shot Sheet- Perf Details  
4) Gamma Ray Log

Flowback #s-  
oil= 0

## 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 #509454 Verified by the BLM Well Information System.  
For ANSCHUTZ OIL COMPANY LLC, sent to the Casper  
Committed to AFMSS for processing by KENT SNETHEN on 04/02/2020 (20KS0634SE)

Name (please print) FRANCES E MACDONALDTitle REGULATORY SPECIALIST

Signature \_\_\_\_\_ (Electronic Submission)

Date 04/02/2020

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 \*\***

**Additional data for transaction #509454 that would not fit on the form**

**32. Additional remarks, continued**

Water=0  
Gas=0

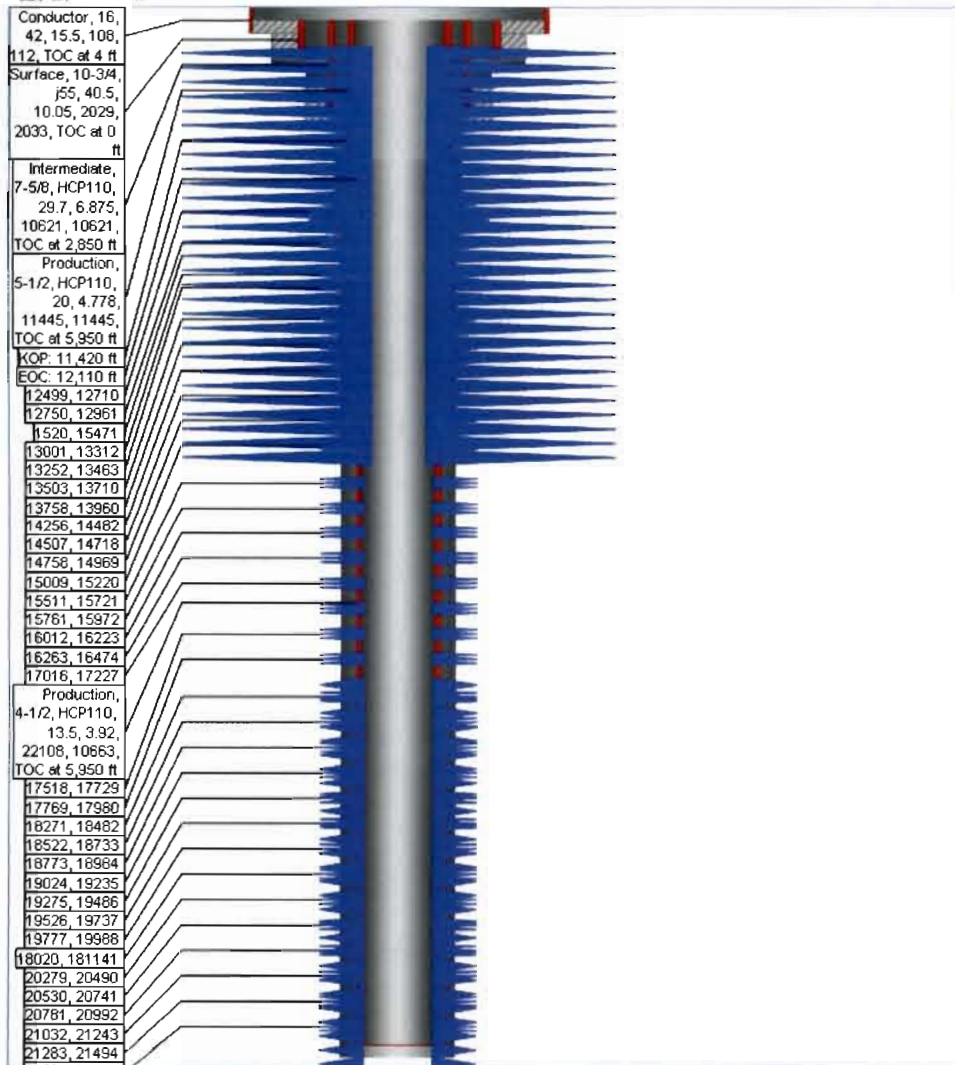
Hauled to North Bill, Richley and Owl  
Hauled by IGO, TCRI, J7

## Revisions to Operator-Submitted EC Data for Well Completion #509454

	Operator Submitted	BLM Revised (AFMSS)
Lease:	WYW60401A	WYW60401A
Agreement:		
Operator:	ANSCHUTZ OIL COMPANY 555 17TH STREET SUITE 2400 DENVER, CO 80203 Ph: 303-299-1396	ANSCHUTZ OIL COMPANY LLC 555 17TH STREET, SUITE 2400 DENVER, CO 80202 Ph: 3032991510
Admin Contact:	FRANCES E MACDONALD REGULATORY SPECIALIST E-Mail: frances.macdonald@aec-denver.com Cell: 720-273-2329 Ph: 303-299-1396	FRANCES E MACDONALD REGULATORY SPECIALIST E-Mail: frances.macdonald@aec-denver.com Cell: 720-273-2329 Ph: 303-299-1396
Tech Contact:	FRANCES E MACDONALD REGULATORY SPECIALIST E-Mail: frances.macdonald@aec-denver.com Cell: 720-273-2329 Ph: 303-299-1396	FRANCES E MACDONALD REGULATORY SPECIALIST E-Mail: frances.macdonald@aec-denver.com Cell: 720-273-2329 Ph: 303-299-1396
Well Name:	SAM FED	SAM FED
Number:	3571-18-19-13TH	3571-18-19-13TH
Location:		
State:	WY	WY
County:	CONVERSE	CONVERSE
S/T/R:	Sec 18 T35N R71W Mer 6PM	Sec 18 T35N R71W Mer 6PM
Surf Loc:	NENW 506FNL 1742FWL 43.011995 N Lat, 105.429956 W Lon	NENW 506FNL 1742FWL 43.011995 N Lat, 105.429956 W Lon
Field/Pool:	SCOTT FIELD	WILDCAT
Logs Run:	MWD, GR	MWD GR
Producing Intervals - Formations:	TURNER	TURNER
Porous Zones:	FOX HILLS TECKLA TEAPOT PARKMAN SUSSEX SS SHANNON SS NIOBRARA	FOX HILLS TECKLA TEAPOT PARKMAN NIOBRARA
Markers:	LANCE FOX HILLS LEWIS SH TECKLA TEAPOT PARKMAN STEELE SH TURNER	LANCE FOX HILLS LEWIS TECKLA TEAPOT PARKMAN TURNER



## Wellbore Diagram



Well Name:	Sam Fed 3571-18-19-13TH					
Job Name:	Initial Completion					
Report Date:	2/3/2020					
Casing Sum						
Description	OD	ID	Grade	Bottom MD	Length	Cum L
Conductor	16	15.5		108.00	112.00	112.00
Surface	10-3/4	10.05	J55	2,029.00	2,033.00	2,033.00
Intermediate	7-5/8	6.875	HCP110	10,621.00	10,621.00	10,621.00
Production	5-1/2	4.778	HCP110	11,445.00	11,445.00	11,445.00
Production	4-1/2	3.92	HCP110	22,108.00	10,663.00	22,108.00

Client: Anschutz Oil Company LLC  
 Disclosure Type: Post-Job  
 Well: Sam Fed 3571-18-19-13 TH  
 Basin/Field: Powder River Basin  
 State: Wyoming  
 County: Converse  
 Well Completed: YES  
 Date Prepared: 1/21/2020



Fluid Name	Volume (gal)	Additive	Additive Description	Concentration	Volume
Acid, Crosslink, and Slickwater	5,088,804	ELEHV-3	Friction Reducer	1.43 gal / 1000 gal	7261 gal
		ELECCL-10	Clay Control	0.97 gal / 1000 gal	4914 gal
		Biosuite GQ123x (Winterized)	Bactericide/Biocide	0.49 gal / 1000 gal	2487 gal
		ELESscale-2	Scale Inhibitor	0.49 gal / 1000 gal	2476 gal
		ELEBR-6W	Breaker	0.42 gal / 1000 gal	2152 gal
		ELENE-4	Non-Emulsifier	0.98 gal / 1000 gal	5009 gal
		ACI-102HT Acid Corrosion Inhibitor	Corrosion inhibitor	0.01 gal / 1000 gal	74 gal
		HCl-7.5	Solvent	7.27 gal / 1000 gal	37000 gal
		40/70 Mesh	Proppant	Varied Concentrations	8424020 lb

Client: Anschutz Oil Company LLC  
Disclosure Type: Post-Job  
Well: Sam Fed 3571-18-19-13 TH  
Basin/Field: Powder River Basin  
State: Wyoming  
County: Converse  
Well Completed: YES  
Date Prepared: 1/21/2020



CAS Number	Chemical Name	Mass Fraction
✓ 7732-18-5	Water	82.57589%
✓ 14808-60-7	Crystalline Silica (Quartz)	16.39045%
✓ 64742-55-8	Hydrotreated light paraffinic distillate	0.07405%
✓ 7647-01-0	Hydrochloric Acid	0.04670%
✓ 7732-18-5	Water	0.03658%
✓ 67-56-1	Methanol	0.03658%
✓ 7732-18-5	Water	0.03265%
✓ 7786-30-3	Magnesium chloride	0.01866%
✓ 107-21-1	Ethylene Glycol	0.01527%
✓ 67-56-1	Methanol	0.01166%
✓ Proprietary	CM8400-5X	0.00933%
✓ 111-30-8	Glutaraldehyde	0.00642%
✓ 7447-40-7	Potassium Chloride	0.00466%
✓ 75-91-2	Tert-Butyl hydroperoxide	0.00382%
✓ 68424-85-1	Alkyl dimethyl benzyl ammonium chloride (C12-16)	0.00214%
✓ 9041-33-2	Polyalkylene Oxide	0.00146%
✓ 15827-60-8	Organophosphonate	0.00058%
✓ 107-21-1	Ethylene glycol	0.00052%
✓ 107-21-1	Ethylene Glycol	0.00039%
✓ 68-12-2	N,N-Dimethylformamide	0.00020%
✓ 15619-48-4	1-(Benzyl)quinolinium chloride	0.00013%
✓ 127087-87-0	Nonylphenol ethoxylated	0.00007%
✓ 104-55-2	Cinnamaldehyde	0.00007%
✓ 68603-15-6	Alcohols, C6-12	0.00007%
✓ 111-76-2	Ethanol, 2-Butoxy-	0.00007%
✓ 78-40-0	Triethyl phosphate	0.00007%
Total		99%



[illegible]



SAM FED 3571-18-19-13 TH						
Stage	Perfs (MD)	Density	Phasing	Diameter	Charges	Shots
1	21,840 21,785	NA	NA	13.60 in^2	GEO QS Toe Subs	NA
PLUG	21,760			EVOLV		
2	21,745	3	120	0.36"	EEH	24
	21,715	3	120	0.36"	EEH	
	21,685	3	120	0.36"	EEH	
	21,655	3	120	0.36"	EEH	
	21,624	3	120	0.36"	EEH	
	21,594	3	120	0.36"	EEH	
	21,564	3	120	0.36"	EEH	
	21,534	3	120	0.36"	EEH	
PLUG	21,509			EVOLV		
3	21,494	3	120	0.36"	EEH	24
	21,464	3	120	0.36"	EEH	
	21,434	3	120	0.36"	EEH	
	21,404	3	120	0.36"	EEH	
	21,373	3	120	0.36"	EEH	
	21,343	3	120	0.36"	EEH	
	21,313	3	120	0.36"	EEH	
	21,283	3	120	0.36"	EEH	
PLUG	21,258			EVOLV		
4	21,243	3	120	0.36"	EEH	24
	21,213	3	120	0.36"	EEH	
	21,183	3	120	0.36"	EEH	
	21,153	3	120	0.36"	EEH	
	21,122	3	120	0.36"	EEH	
	21,092	3	120	0.36"	EEH	
	21,062	3	120	0.36"	EEH	
	21,032	3	120	0.36"	EEH	
PLUG	21,007			EVOLV		
5	20,992	3	120	0.36"	EEH	24
	20,962	3	120	0.36"	EEH	
	20,932	3	120	0.36"	EEH	
	20,902	3	120	0.36"	EEH	
	20,872	3	120	0.36"	EEH	
	20,841	3	120	0.36"	EEH	
	20,811	3	120	0.36"	EEH	
	20,781	3	120	0.36"	EEH	
PLUG	20,756			EVOLV		
6	20,741	3	120	0.36"	EEH	24
	20,711	3	120	0.36"	EEH	
	20,681	3	120	0.36"	EEH	
	20,651	3	120	0.36"	EEH	
	20,621	3	120	0.36"	EEH	
	20,590	3	120	0.36"	EEH	
	20,560	3	120	0.36"	EEH	
	20,530	3	120	0.36"	EEH	
PLUG	20,505			EVOLV		
7	20,490	3	120	0.36"	EEH	24
	20,460	3	120	0.36"	EEH	
	20,430	3	120	0.36"	EEH	
	20,400	3	120	0.36"	EEH	

	20,370	3	120	0.36"	EEH	24
	20,339	3	120	0.36"	EEH	
	20,309	3	120	0.36"	EEH	
	20,279	3	120	0.36"	EEH	
	20,254	3	120	0.36"	EEH	
PLUG	20,239	3	120	0.36"	EEH	24
	20,209	3	120	0.36"	EEH	
	20,179	3	120	0.36"	EEH	
	20,149	3	120	0.36"	EEH	
	20,119	3	120	0.36"	EEH	
8	20,088	3	120	0.36"	EEH	24
	20,058	3	120	0.36"	EEH	
	20,028	3	120	0.36"	EEH	
	20,003	3	120	0.36"	EEH	
	19,988	3	120	0.36"	EEH	
PLUG	19,958	3	120	0.36"	EEH	24
	19,928	3	120	0.36"	EEH	
	19,898	3	120	0.36"	EEH	
	19,868	3	120	0.36"	EEH	
	19,837	3	120	0.36"	EEH	
9	19,807	3	120	0.36"	EEH	24
	19,777	3	120	0.36"	EEH	
	19,752	3	120	0.36"	EEH	
	19,737	3	120	0.36"	EEH	
	19,707	3	120	0.36"	EEH	
PLUG	19,677	3	120	0.36"	EEH	24
	19,647	3	120	0.36"	EEH	
	19,617	3	120	0.36"	EEH	
	19,586	3	120	0.36"	EEH	
	19,556	3	120	0.36"	EEH	
10	19,526	3	120	0.36"	EEH	24
	19,501	3	120	0.36"	EEH	
	19,486	3	120	0.36"	EEH	
	19,456	3	120	0.36"	EEH	
	19,426	3	120	0.36"	EEH	
11	19,396	3	120	0.36"	EEH	24
	19,366	3	120	0.36"	EEH	
	19,335	3	120	0.36"	EEH	
	19,305	3	120	0.36"	EEH	
	19,275	3	120	0.36"	EEH	
PLUG	19,250	3	120	0.36"	EEH	24
	19,235	3	120	0.36"	EEH	
	19,205	3	120	0.36"	EEH	
	19,175	3	120	0.36"	EEH	
	19,145	3	120	0.36"	EEH	
12	19,115	3	120	0.36"	EEH	24
	19,085	3	120	0.36"	EEH	
	19,054	3	120	0.36"	EEH	
	19,024	3	120	0.36"	EEH	
	18,999	3	120	0.36"	EEH	
PLUG	18,984	3	120	0.36"	EEH	24
	18,954	3	120	0.36"	EEH	
	18,924	3	120	0.36"	EEH	
	18,894	3	120	0.36"	EEH	
	18,864	3	120	0.36"	EEH	
13	18,834	3	120	0.36"	EEH	24

	18,803	3	120	0.36"	EEH	
	18,773	3	120	0.36"	EEH	
PLUG	18,748	EVOLV				
14	18,733	3	120	0.36"	EEH	24
	18,703	3	120	0.36"	EEH	
	18,673	3	120	0.36"	EEH	
	18,643	3	120	0.36"	EEH	
	18,613	3	120	0.36"	EEH	
	18,583	3	120	0.36"	EEH	
	18,552	3	120	0.36"	EEH	
	18,522	3	120	0.36"	EEH	
PLUG	18,497	EVOLV				
15	18,482	3	120	0.36"	EEH	24
	18,452	3	120	0.36"	EEH	
	18,422	3	120	0.36"	EEH	
	18,392	3	120	0.36"	EEH	
	18,362	3	120	0.36"	EEH	
	18,332	3	120	0.36"	EEH	
	18,301	3	120	0.36"	EEH	
	18,271	3	120	0.36"	EEH	
PLUG	18,246	EVOLV				
16	18,231	3	120	0.36"	EEH	24
	18,201	3	120	0.36"	EEH	
	18,171	3	120	0.36"	EEH	
	18,141	3	120	0.36"	EEH	
	18,111	3	120	0.36"	EEH	
	18,081	3	120	0.36"	EEH	
	18,050	3	120	0.36"	EEH	
	18,020	3	120	0.36"	EEH	
PLUG	17,995	EVOLV				
17	17,980	3	120	0.36"	EEH	24
	17,950	3	120	0.36"	EEH	
	17,920	3	120	0.36"	EEH	
	17,890	3	120	0.36"	EEH	
	17,860	3	120	0.36"	EEH	
	17,830	3	120	0.36"	EEH	
	17,799	3	120	0.36"	EEH	
	17,769	3	120	0.36"	EEH	
PLUG	17,744	EVOLV				
18	17,729	3	120	0.36"	EEH	24
	17,699	3	120	0.36"	EEH	
	17,669	3	120	0.36"	EEH	
	17,639	3	120	0.36"	EEH	
	17,609	3	120	0.36"	EEH	
	17,579	3	120	0.36"	EEH	
	17,548	3	120	0.36"	EEH	
	17,518	3	120	0.36"	EEH	
PLUG	17,493	EVOLV				
19	17,478	3	120	0.36"	EEH	24
	17,448	3	120	0.36"	EEH	
	17,418	3	120	0.36"	EEH	
	17,388	3	120	0.36"	EEH	
	17,358	3	120	0.36"	EEH	
	17,328	3	120	0.36"	EEH	
	17,298	3	120	0.36"	EEH	
	17,267	3	120	0.36"	EEH	
PLUG	17,242	EVOLV				

20	17,227	3	120	0.36"	EEH	24
	17,197	3	120	0.36"	EEH	
	17,167	3	120	0.36"	EEH	
	17,137	3	120	0.36"	EEH	
	17,107	3	120	0.36"	EEH	
	17,077	3	120	0.36"	EEH	
	17,047	3	120	0.36"	EEH	
	17,016	3	120	0.36"	EEH	
PLUG	16,991	EVOLV				
21	16,976	3	120	0.36"	EEH	24
	16,946	3	120	0.36"	EEH	
	16,916	3	120	0.36"	EEH	
	16,886	3	120	0.36"	EEH	
	16,856	3	120	0.36"	EEH	
	16,826	3	120	0.36"	EEH	
	16,796	3	120	0.36"	EEH	
	16,765	3	120	0.36"	EEH	
PLUG	16,740	EVOLV				
22	16,725	3	120	0.36"	EEH	24
	16,695	3	120	0.36"	EEH	
	16,665	3	120	0.36"	EEH	
	16,635	3	120	0.36"	EEH	
	16,605	3	120	0.36"	EEH	
	16,575	3	120	0.36"	EEH	
	16,545	3	120	0.36"	EEH	
	16,514	3	120	0.36"	EEH	
PLUG	16,489	EVOLV				
23	16,474	3	120	0.36"	EEH	24
	16,444	3	120	0.36"	EEH	
	16,414	3	120	0.36"	EEH	
	16,384	3	120	0.36"	EEH	
	16,354	3	120	0.36"	EEH	
	16,324	3	120	0.36"	EEH	
	16,294	3	120	0.36"	EEH	
	16,263	3	120	0.36"	EEH	
PLUG	16,238	EVOLV				
24	16,223	3	120	0.36"	EEH	24
	16,193	3	120	0.36"	EEH	
	16,163	3	120	0.36"	EEH	
	16,133	3	120	0.36"	EEH	
	16,103	3	120	0.36"	EEH	
	16,073	3	120	0.36"	EEH	
	16,043	3	120	0.36"	EEH	
	16,012	3	120	0.36"	EEH	
PLUG	15,987	EVOLV				
25	15,972	3	120	0.36"	EEH	24
	15,942	3	120	0.36"	EEH	
	15,912	3	120	0.36"	EEH	
	15,882	3	120	0.36"	EEH	
	15,852	3	120	0.36"	EEH	
	15,822	3	120	0.36"	EEH	
	15,792	3	120	0.36"	EEH	
	15,761	3	120	0.36"	EEH	
PLUG	15,736	EVOLV				
	15,721	3	120	0.36"	EEH	
	15,691	3	120	0.36"	EEH	
	15,661	3	120	0.36"	EEH	

26	15,631	3	120	0.36"	EEH	24
	15,601	3	120	0.36"	EEH	
	15,571	3	120	0.36"	EEH	
	15,541	3	120	0.36"	EEH	
	15,511	3	120	0.36"	EEH	
PLUG	15,486	EVOLV				
27	15,471	3	120	0.36"	EEH	24
	15,440	3	120	0.36"	EEH	
	15,410	3	120	0.36"	EEH	
	15,380	3	120	0.36"	EEH	
	15,350	3	120	0.36"	EEH	
PLUG	15,320	3	120	0.36"	EEH	24
	15,290	3	120	0.36"	EEH	
	15,260	3	120	0.36"	EEH	
	15,235	EVOLV				
	15,220	3	120	0.36"	EEH	
28	15,189	3	120	0.36"	EEH	24
	15,159	3	120	0.36"	EEH	
	15,129	3	120	0.36"	EEH	
	15,099	3	120	0.36"	EEH	
	15,069	3	120	0.36"	EEH	
PLUG	15,039	3	120	0.36"	EEH	24
	15,009	3	120	0.36"	EEH	
	14,984	EVOLV				
	14,969	3	120	0.36"	EEH	
	14,938	3	120	0.36"	EEH	
29	14,908	3	120	0.36"	EEH	24
	14,878	3	120	0.36"	EEH	
	14,848	3	120	0.36"	EEH	
	14,818	3	120	0.36"	EEH	
	14,788	3	120	0.36"	EEH	
PLUG	14,758	3	120	0.36"	EEH	24
	14,733	EVOLV				
	14,718	3	120	0.36"	EEH	
	14,687	3	120	0.36"	EEH	
	14,657	3	120	0.36"	EEH	
30	14,627	3	120	0.36"	EEH	24
	14,597	3	120	0.36"	EEH	
	14,567	3	120	0.36"	EEH	
	14,537	3	120	0.36"	EEH	
	14,507	3	120	0.36"	EEH	
PLUG	14,482	EVOLV				
31	14,467	3	120	0.36"	EEH	24
	14,436	3	120	0.36"	EEH	
	14,406	3	120	0.36"	EEH	
	14,376	3	120	0.36"	EEH	
	14,346	3	120	0.36"	EEH	
PLUG	14,316	3	120	0.36"	EEH	24
	14,286	3	120	0.36"	EEH	
	14,256	3	120	0.36"	EEH	
	14,231	EVOLV				
	14,216	3	120	0.36"	EEH	
32	14,185	3	120	0.36"	EEH	24
	14,155	3	120	0.36"	EEH	
	14,125	3	120	0.36"	EEH	
	14,095	3	120	0.36"	EEH	
	14,065	3	120	0.36"	EEH	



	14.035	3	120	0.36"	EEH	
	14.005	3	120	0.36"	EEH	
PLUG						
	13.980			EVOLV		
	13.965	3	120	0.36"	EEH	
	13.934	3	120	0.36"	EEH	
	13.904	3	120	0.36"	EEH	
	13.874	3	120	0.36"	EEH	
	13.844	3	120	0.36"	EEH	
	13.814	3	120	0.36"	EEH	
	13.784	3	120	0.36"	EEH	
	13.754	3	120	0.36"	EEH	
PLUG						
	13.729			EVOLV		
	13.714	3	120	0.36"	EEH	
	13.684	3	120	0.36"	EEH	
	13.653	3	120	0.36"	EEH	
	13.623	3	120	0.36"	EEH	
	13.593	3	120	0.36"	EEH	
	13.563	3	120	0.36"	EEH	
	13.533	3	120	0.36"	EEH	
	13.503	3	120	0.36"	EEH	
PLUG						
	13.478			EVOLV		
	13.463	3	120	0.36"	EEH	
	13.433	3	120	0.36"	EEH	
	13.402	3	120	0.36"	EEH	
	13.372	3	120	0.36"	EEH	
	13.342	3	120	0.36"	EEH	
	13.312	3	120	0.36"	EEH	
	13.282	3	120	0.36"	EEH	
	13.252	3	120	0.36"	EEH	
PLUG						
	13.227			EVOLV		
	13.212	3	120	0.36"	EEH	
	13.182	3	120	0.36"	EEH	
	13.151	3	120	0.36"	EEH	
	13.121	3	120	0.36"	EEH	
	13.091	3	120	0.36"	EEH	
	13.061	3	120	0.36"	EEH	
	13.031	3	120	0.36"	EEH	
	13.001	3	120	0.36"	EEH	
PLUG						
	12.976			EVOLV		
	12.961	3	120	0.36"	EEH	
	12.931	3	120	0.36"	EEH	
	12.900	3	120	0.36"	EEH	
	12.870	3	120	0.36"	EEH	
	12.840	3	120	0.36"	EEH	
	12.810	3	120	0.36"	EEH	
	12.780	3	120	0.36"	EEH	
	12.750	3	120	0.36"	EEH	
PLUG						
	12.725			EVOLV		
	12.710	3	120	0.36"	EEH	
	12.680	3	120	0.36"	EEH	
	12.649	3	120	0.36"	EEH	
	12.619	3	120	0.36"	EEH	
	12.589	3	120	0.36"	EEH	
	12.559	3	120	0.36"	EEH	
	12.529	3	120	0.36"	EEH	
	12.499	3	120	0.36"	EEH	
LP						
	12.499			Last Perforation		