



Service Order #: 70350

Date: 17-Sep-20

Well Name	Location	County	St	API#		
doty federal 1		WELD	CO	05-123-07078		
Formation	Cement Via	Type Of Service	Well Type	Age	AFE#	PO#
	TUBING	PLUG		REWORK		

Customer: BISON OIL AND GAS

Remarks: 160 SKS, 32.8 BBLs, @ 6198'- 5884' TOC
100SKS, 20.5 BBLs, @ 4684'- 4107' TOC
80 SKS, 16.4 BBLs, @ 4092'-3927' TOC
80 sks, 16.4 bbls, @ 1727'-1433' TOC
250 SKS, 51.2 BBLs, @ 623'-350' TOC
180 SKS, 36.9 BBLs, @ 350'-0'
5 SKS, 1 BBL TOP OFF

Customer Rep: BRAD/ GARY

PH:

WELLBORE DATA				
Type	Size	Weight	Depth	Volume
Surface Casing:	8.625	24.0	91.0	
Production Casing:				
Intermediate:				
Drill Pipe:				
Tubing:	2.875	6.5	6,198.0	
Type	Size	Depth (Top)	Depth (Bot)	Volume
Liner:				
Open Hole:	7.875	91.0	6,198.0	

OTHER DATA		
BHT	Max PSI	Total Depth
	610	6,198.0

Packer or RetainerType / Depth:

Perf Depths:	#	Total
	0	0
	0	
	0	

TIME	PUMP RATES		DENSITY (lb/gal)	PRESS (psi)	STG TOT (bbls)	TOTAL (bbls)	REMARKS
	WATER (gpm)	PUMP (bpm)					
19:49	0	0.0	8.00	1,607	71.9	71.9	PSI TEST
19:52	0	0.0	8.00	29	0.0	0.0	H2O SPACER
20:01	0	2.1	15.78	432	0.1	9.0	ANNOTATIONND SPACER START CEMENT
20:12	187	3.0	15.77	109	32.4	41.4	END CEMENT START SPACER
20:12	227	3.0	10.81	64	0.9	42.6	END SPACER START MUD DISPLACEMENT
20:22	0	3.5	8.00	606	31.5	74.1	OFFLINE
20:43	0	0.0	0.00	0	0.0	0.0	Paused 20:43:09-01:26:56
1:26	0	0.0	8.00	35	42.1	84.8	H2O SPACER
1:30	0	0.0	15.44	141	3.6	3.6	OFFLINE
1:34	51	1.8	16.20	365	3.7	3.7	CONT. SPACER
1:36	2	2.7	16.08	571	8.9	8.9	END SPACER START CEMENT
1:41	35	0.0	13.32	29	12.8	21.8	LOST PRODUCT FEED SWAPPING PODS
1:44	78	0.3	15.28	29	15.2	24.2	CONT CEMENT
1:46	0	2.0	15.96	70	20.4	29.4	END CEMENT START DISPLACEMENT
1:54	0	0.0	8.67	129	24.0	54.5	OFFLINE
1:59	0	0.0	8.56	0	24.0	54.5	Paused 01:59:01-22:18:11
22:20	0	0.8	8.00	0	0.0	2.4	START H2O SPACER
22:28	0	1.1	16.12	212	8.8	8.8	START CEMENT
22:35	189	2.1	15.75	35	16.6	25.4	END CEMENT START SPACER
22:36	0	2.1	9.39	18	1.0	27.0	END SPACER START MUD DISPLACEMENT
22:43	0	0.0	8.39	0	24.2	51.3	OFFLINE
22:43	0	0.0	8.68	0	24.2	51.3	Paused 22:43:44-04:53:54
4:53	0	0.0	4.50	0	33.0	60.1	ANNOTATION
5:01	0	0.0	8.00	0	0.1	0.1	H2O SPACER

Customer Acknowledgement:

Service Rating:

- ☐ Satisfactory
☐ Unsatisfactory

Cementer:

A.HOWELL

PRODUCTS USED

CLASS G CEMENT 1.15 YIELD 15.8 LBS/ GAL



Service Order #: 70350

Date: 17-Sep-20

5:10	0	2.4	15.55	184	10.0	10.0	END SPACER START CEMENT
5:16	85	2.3	15.64	53	16.4	26.5	END CEMENT START H2O SPACER
5:17	0	2.3	9.08	24	1.0	28.0	START MUD DISPLACEMENT
5:19	0	0.0	8.14	0	7.2	35.2	OFFLINE
5:24	0	0.0	8.36	0	7.2	35.2	Paused 05:24:33-10:48:37
10:48	0	0.0	0.00	0	0.0	0.0	Paused 10:48:58-10:50:59
10:53	0	0.2	8.00	24	0.0	0.0	DYED SPACER
11:03	0	2.3	16.17	57	14.9	14.9	START CEMENT
11:24	44	1.9	13.58	6	0.0	67.7	END CEMENT
11:25	0	0.3	12.99	6	2.0	69.7	OFFLINE
11:33	14	0.0	8.00	0	2.0	69.7	Paused 11:33:06-15:42:25
15:44	0	0.0	0.00	0	0.0	0.0	ANNOTATION
16:02	22	0.0	13.53	0	6.8	6.8	CONT. H2O SPACER
16:04	0	2.6	15.54	35	10.0	10.0	START CEMENT
16:18	0	0.0	9.50	0	36.9	47.0	CEMENT TO SURFACE OFFLINE
16:18	0	0.0	9.52	0	36.9	47.0	Paused 16:18:19

Summary

Max Fl. Rate	Avg Fl. Rate	Max Psi	Avg Psi
3.5	0.6	1,812	123

Customer Acknowledgement:

Service Rating:

- ☐ Satisfactory
☐ Unsatisfactory

Cementer:

A.HOWELL

PRODUCTS USED

CLASS G CEMENT 1.15 YIELD 15.8 LBS/ GAL

bison oil and gas DOTY FEDERAL 1

