



Service Order #: 492940

Date: 11/11/2022

Well Name:	Location:	County:	St:	API#	
MARKHAM 15-11 IB		WELD	CO		
Formation:	Cement Via:	Type Of Service:	Well Type/Age:	AFE#:	PO#:
	TUBING	SQUEEZE	REWORK		

Customer: OXY

Remarks: SUSSEX AGM, 1.17 YIELD, 5.17 GAL/SK, 15.8 LBS/GAL,  
150 SKS, 31.3 BBLS, @3740'-3120' ETOC CASING  
25.4 BBLS THROUGH PERFS

TEMP-70.7°F, PH-7, CHLORIDES-0 PPM

Customer Rep: KELLY

PH:

## WELLBORE DATA

Type	Size	Weight	Depth	Volume
Surface Casing:				
Production Casing:	3.5	7.7		0
Intermediate:	0	0	0.0	0
Drill Pipe:	0	0	0.0	0
Tubing:	2.0625	3.5	3,380.0	

Type	Size	Depth (Top)	Depth (Bot)	Volume
Liner:				0
Open Hole:	7.9			

## OTHER DATA

BHT	Max PSI	Total Depth
	957	3,740

Packer or Retainer Type/Depth:

RETAINER	3,380
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Perf Depths: # TotalPerf

3,320.0	3,740.0	0	
		0	
		0	

TIME	PUMP RATES		DENSITY	PRESS	STG TOT	TOTAL	REMARKS
	WATER (gpm)	PUMP (bpm)	(lb/gal)	(psi)	(bbls)	(bbls)	
13:56	0	0.0	0.00	0	0.0	0.0	ANNOTATION
14:00	0	0.0	7.91	2440	21.8	44.3	PSI TEST
14:01	0	0.0	7.91	0	0.0	0.0	ANNOTATION
14:13	0	0.0	7.91	0	3.1	3.1	H2O SPACER
14:19	60	1.4	15.36	496	11.2	11.2	START CEMENT
14:34	0	2.1	9.09	331	31.5	42.7	END CEMENT START DISPLACEMENT
14:38	0	0.0	7.91	0	7.5	50.6	OFFLINE

## Summary

Max Fl. Rate	Avg Fl. Rate	Max Psi	Avg Psi
2.1	1.4	2,537	389

Customer Acknowledgement:

Service Rating:

- ☐ Satisfactory  
☐ Unsatisfactory

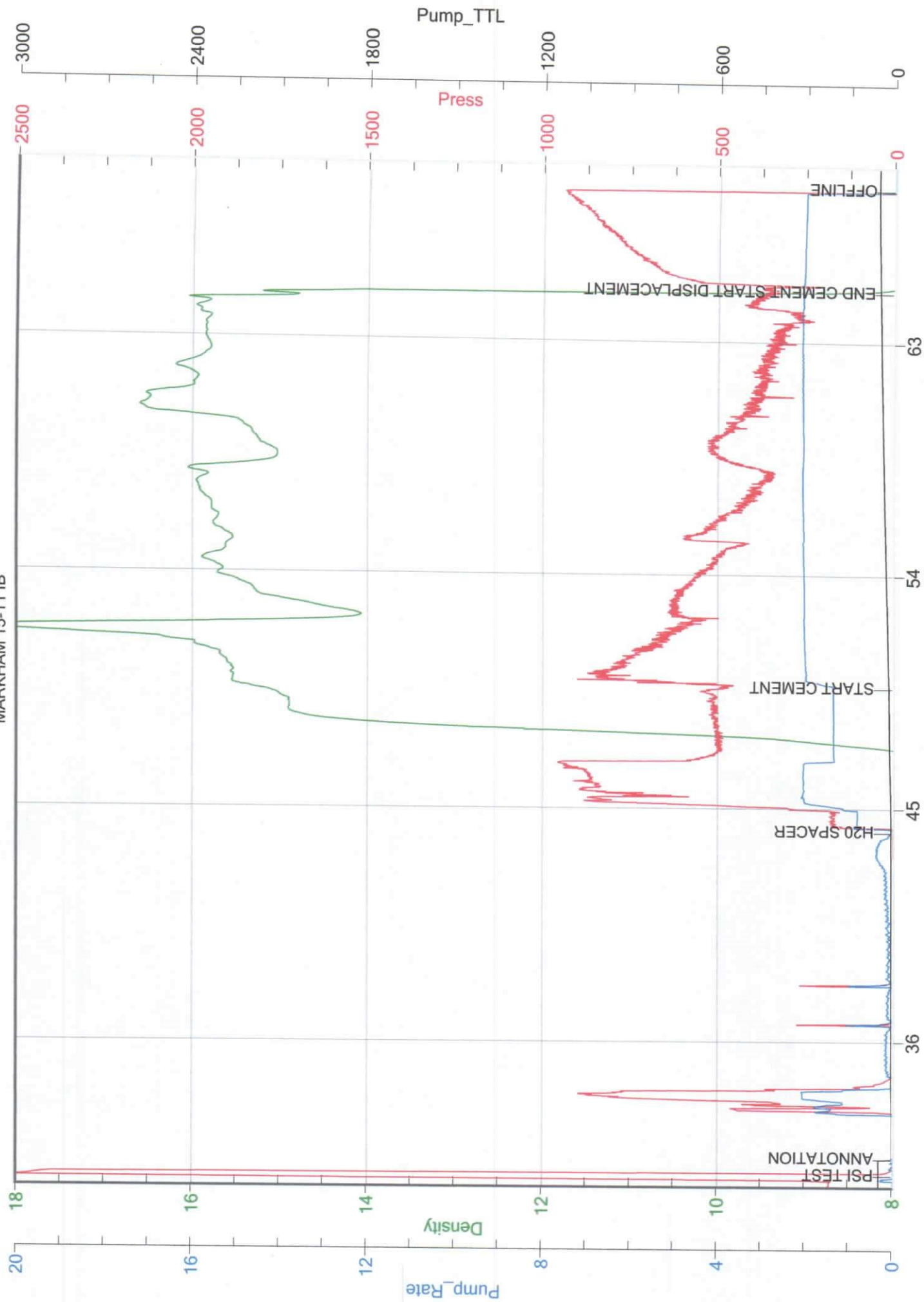
Cementer:

A.HOWELL

## PRODUCTS USED

CLASS G CMT, 2% GYPSUM, .4% LATEX, .3% DISPERSANT, .25% FLUID LOSS

OXY  
MARKHAM 15-11 IB





Service Order #: 490616

Date: 11/12/2022

Well Name:	Location:	County:	St:	API#
MARKHAM 15-1118		WELD	CO	

Formation:	Cement Via:	Type Of Service:	Well Type/Age:	AFE#:	PO#:
	CASING	LOWER AGM			

Customer: OXY USA INC

Remarks: H2O TEMP 70\*, PH 7, CHLORIDES 30 PPM  
225 SKS, 48.1 BBLS, DISPLACE 19.2 BBLS  
ETOC @ 2100'

Customer Rep: KELLY

PH:

WELLBORE DATA				
Type	Size	Weight	Depth	Volume
Surface Casing:				
Production Casing:	3.5	7.7	0.0	0
Intermediate:	0	0	0.0	0
Drill Pipe:	0	0	0.0	0
Tubing:		0		

Type	Size	Depth (Top)	Depth (Bot)	Volume
Liner:				0
Open Hole:	0.0			

OTHER DATA		
BHT	Max PSI	Total Depth

Packer or Retainer Type/Depth:

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Perf Depths:	#	TotalPerf
	0	
	0	
	0	

TIME	PUMP RATES		DENSITY	PRESS	STG TOT	TOTAL	REMARKS
	WATER (gpm)	PUMP (bpm)	(lb/gal)	(psi)	(bbbls)	(bbbls)	
13:27	0	0.0	6.88	1004	0.1	0.1	PRESSURE TEST
13:30	84	0.0	15.87	0	0.1	0.1	START CEMENT
13:43	0	4.0	15.71	75	48.1	48.1	END CEMENT/ START DISPLACEMENT
13:48	0	0.0	17.01	0	19.2	67.8	END DISPLACEMENT

## Summary

Max Fl. Rate	Avg Fl. Rate	Max Psi	Avg Psi
4.0	3.9	1,220	111

Customer Acknowledgement:

Service Rating:

- ☐ Satisfactory  
☐ Unsatisfactory

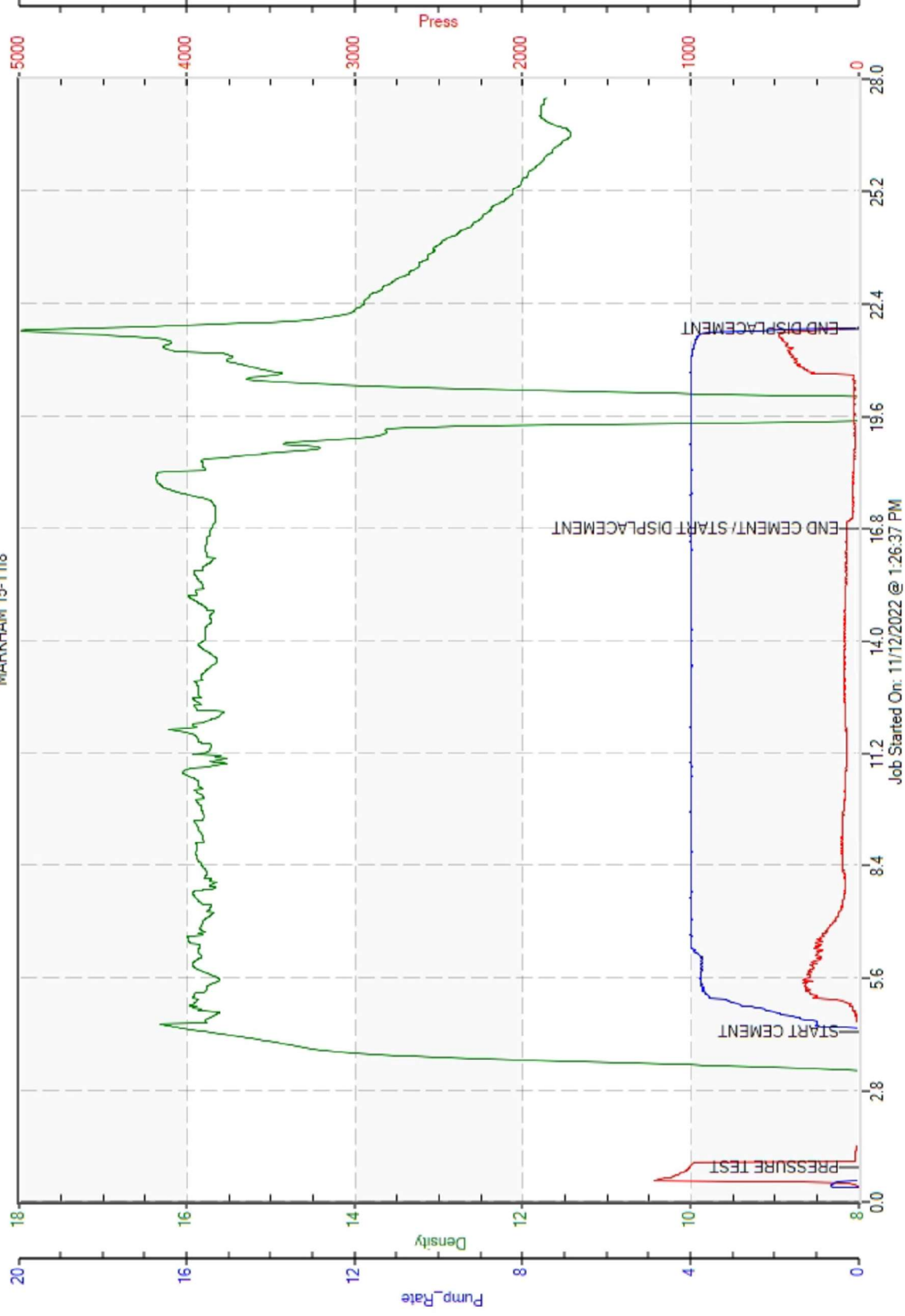
Cementer:

JEREMIE

## PRODUCTS USED

LOWER AGM, CLASS G CMT, 4% GYPSUM(EXPANSION), 1% CaCl,  
.4% C16A(LATEX), 1.20 YIELD, 5.149 GAL/SKS, 15.8 LBS/GAL

OXY USA INC  
MARKHAM 15-1118





Service Order #: 491064

Date: 11/15/2022

Well Name:	Location:	County:	St:	API#	
MARKHAM 15-1118		WELD	CO		
Formation:	Cement Via:	Type Of Service:	Well Type/Age:	AFE#:	PO#:
	TUBING	UPPER AGM			

Customer: OXY USA INC

Remarks: H2O TEMP 70\*, PH 7, CHLORIDES 0 PPM  
255 SKS, 55.0 BBLS, DISPLACE 4.2 BBLS  
  
ETOC @ 1800' - 1100' +30% EXCESS IN OH

Customer Rep: KELLY

PH:

WELBORE DATA				
Type	Size	Weight	Depth	Volume
Surface Casing:				
Production Casing:	0	0	0.0	0
Intermediate:	0	0	0.0	0
Drill Pipe:	0	0	0.0	0
Tubing:	2.375	0		

Type	Size	Depth (Top)	Depth (Bot)	Volume
Liner:				0
Open Hole:	0.0			

OTHER DATA		
BHT	Max PSI	Total Depth

Packer or Retainer Type/Depth:

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Perf Depths:	#	TotalPerf
	0	
	0	
	0	

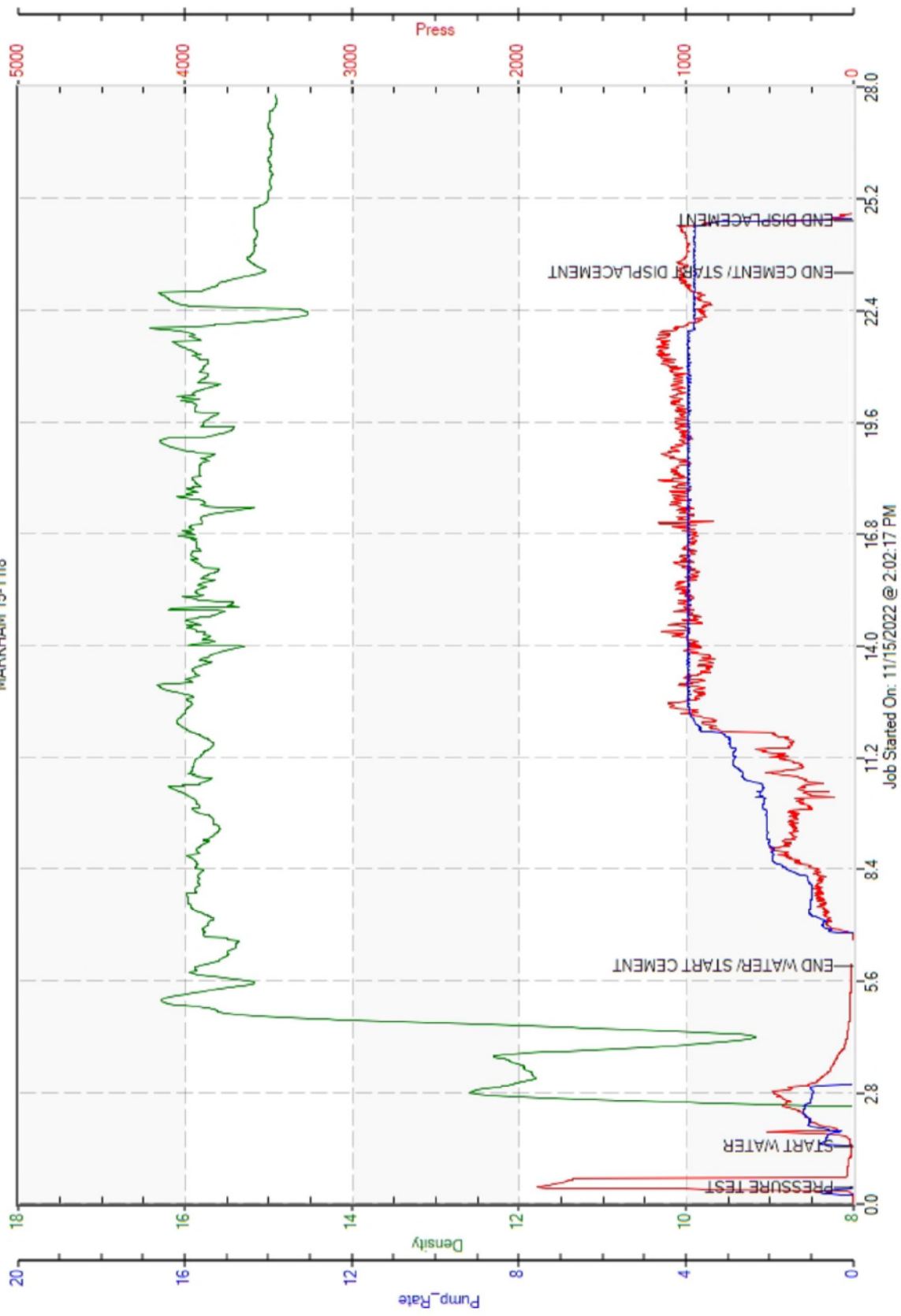
TIME	PUMP RATES		DENSITY	PRESS	STG TOT	TOTAL	REMARKS
	WATER (gpm)	PUMP (bpm)	(lb/gal)	(psi)	(bbbls)	(bbbls)	
14:02	0	0.0	6.88	1891	0.1	0.1	PRESSURE TEST
14:03	92	0.2	6.88	11	0.1	0.1	START WATER
14:08	2	0.0	15.80	11	1.5	1.5	END WATER/ START CEMENT
14:25	0	3.8	15.07	1030	54.9	56.4	END CEMENT/ START DISPLACEMENT
14:26	0	1.4	15.18	138	4.2	4.2	END DISPLACEMENT

## Summary

Max Fl. Rate	Avg Fl. Rate	Max Psi	Avg Psi
3.8	2.9	1,891	759

Customer Acknowledgement:	Service Rating:	Cementer:	PRODUCTS USED
	<input type="checkbox"/> Satisfactory <input type="checkbox"/> Unsatisfactory	JEREMIE	UPPER AGM, G CMT, 4% GYPSUM(EXPANSION), 1.5% CaCl, .4% C16A(LATEX), 1.21 YIELD, 5.153 GAL/SK, 15.8 LBS/GAL

OXY USA INC  
MARKHAM 15-1118







Service Order #: 494333

Date: 11/16/2022

Well Name:	Location:	County:	St:	API#	
MARKHAM 15-11 I8		WELD	CO		
Formation:	Cement Via:	Type Of Service:	Well Type/Age:	AFE#:	PO#:
	TUBING	PLUG	REWORK		

Customer: OXY

Remarks: UPPER AGM, 1.21 YIELD, 5.15 GAL/SK, 15.8 LBS./GAL  
345 SKS, 74.3 BBLS@ 1235'-330' ETOC  
TEMP-69.1°F, PH-7, CHLORIDES-28 PPM

Customer Rep: KELLY

PH:

## WELBORE DATA

Type	Size	Weight	Depth	Volume
Surface Casing:	8.625	24	532.0	
Production Casing:	0	0	0.0	0
Intermediate:	0	0	0.0	0
Drill Pipe:	0	0	0.0	0
Tubing:	2.375	4.7	1,235.0	

Type	Size	Depth (Top)	Depth (Bot)	Volume
Liner:				0
Open Hole:	7.9	532.0	1,235.0	

## OTHER DATA

BHT	Max PSI	Total Depth
	646	1,235

Packer or Retainer Type/Depth:

Perf Depths:	#	TotalPerf
	0	
	0	
	0	

TIME	PUMP RATES		DENSITY	PRESS	STG TOT	TOTAL	REMARKS
	WATER (gpm)	PUMP (bpm)	(lb/gal)	(psi)	(bbbls)	(bbbls)	
9:44	0	0.0	7.91	2100	36.9	77.5	PSI TEST
9:44	0	0.0	7.91	0	0.0	0.0	H2O SPACER
9:47	0	4.1	15.79	385	5.0	5.0	START CEMENT
10:00	2	0.0	16.73	0	50.2	55.5	OFFLINE
10:21	16	0.0	14.25	0	50.2	55.5	CONT CEMENT STG 2
10:28	0	4.0	15.55	469	76.7	81.9	END CEMENT START DISPLACEMENT
10:28	0	0.0	12.20	36	1.6	83.6	OFFLINE

## Summary

Max Fl. Rate	Avg Fl. Rate	Max Psi	Avg Psi
4.1	3.2	2,237	352

Customer Acknowledgement:

Service Rating:

Cementer:

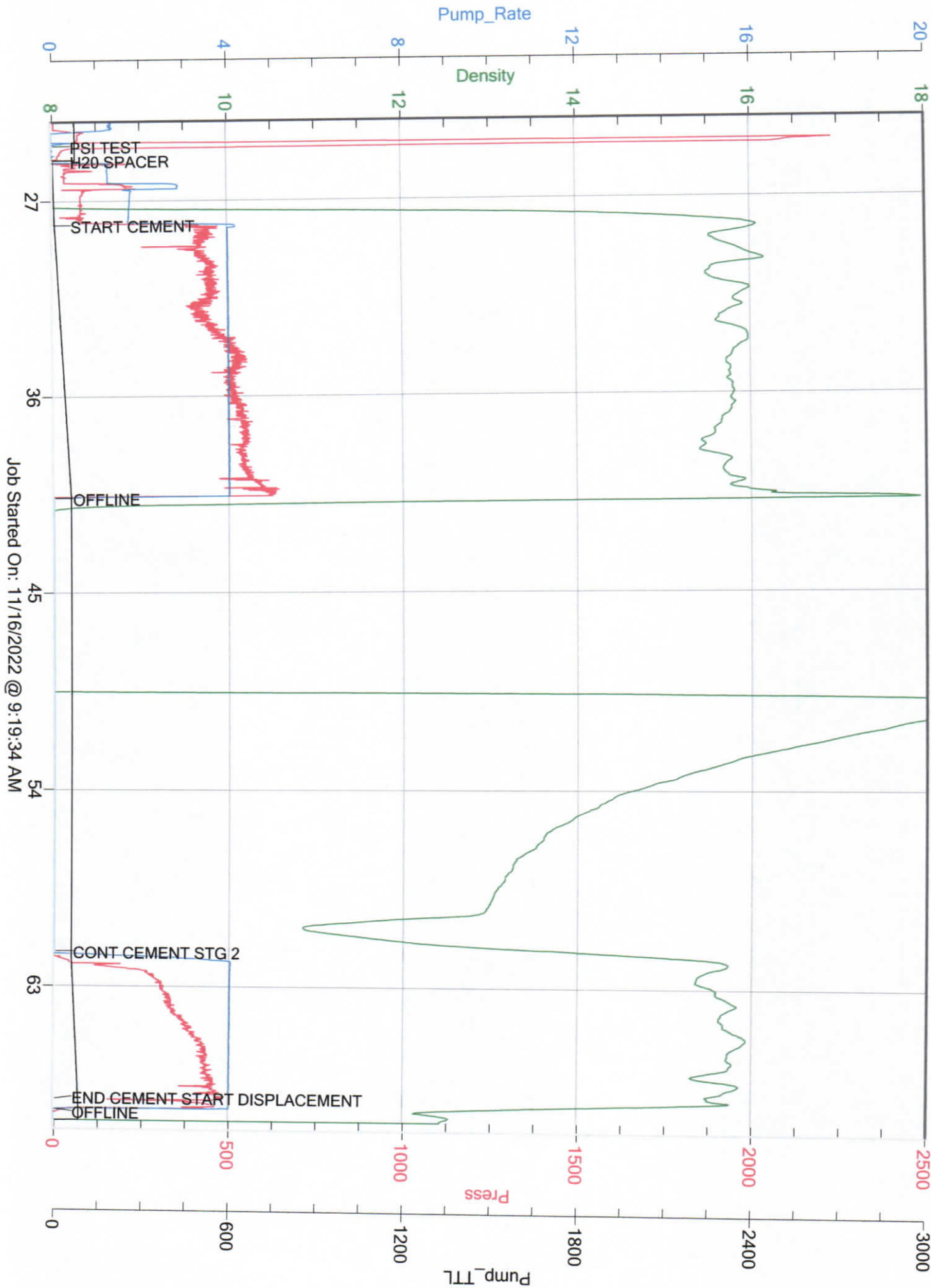
- ☐ Satisfactory  
☐ Unsatisfactory

A.HOWELL

## PRODUCTS USED

CLASS G CMT, 4% GYPSUM, 1.5% CaCl, .4% LATEX

OXY  
MARKHAM 15-11 18







Service Order #: 494543

Date: 11/17/2022

Well Name:	Location:	County:	St:	API#
MARKHAM 15-11 I8		WELD	CO	
Formation:	Cement Via:	Type Of Service:	Well Type/Age:	AFE#:
	TUBING	PLUG	REWORK	

Customer: OXY

Remarks: SURFACE AGM, 1.21 YIELD, 5.17 GAL/SK, 15.8 LBS/GAL  
90 SKS, 19.4 BBLS, @260'-0'  
TEMP-70.3°F PH-7 CHLORIDES-28 PPM

Customer Rep: KELLY

PH:

WELLBORE DATA				
Type	Size	Weight	Depth	Volume
Surface Casing:	8.625	24		
Production Casing:	0	0	0.0	0
Intermediate:	0	0	0.0	0
Drill Pipe:	0	0	0.0	0
Tubing:	2.375	4.7	260.0	

Type	Size	Depth (Top)	Depth (Bot)	Volume
Liner:				0
Open Hole:	0.0			

OTHER DATA		
BHT	Max PSI	Total Depth
	200	260

Packer or Retainer Type/Depth:

Perf Depths:	#	TotalPerf
	0	
	0	
	0	

TIME	PUMP RATES		DENSITY	PRESS	STG TOT	TOTAL	REMARKS
	WATER (gpm)	PUMP (bpm)	(lb/gal)	(psi)	(bbbls)	(bbbls)	
9:33	0	0.0	0.00	0	0.0	0.0	ANNOTATION
9:39	0	0.0	7.91	1875	11.6	93.6	PSI TEST
9:40	0	0.2	7.91	0	0.0	0.0	H2O SPACER
9:42	72	1.3	14.74	24	3.7	3.7	START CEMENT
9:50	0	1.3	14.88	53	19.6	23.3	CEMENT TO SURFACE OFFLINE

## Summary

Max Fl. Rate	Avg Fl. Rate	Max Psi	Avg Psi
1.3	7.3	1,996	77

Customer Acknowledgement:

Service Rating:

Cementer:

☐ Satisfactory  
☐ Unsatisfactory

A.HOWELL

## PRODUCTS USED

CLASS G CMT, 4% GYPSUM, 2% CaCl, .4% LATEX

OXY  
MARKHAM 15-11 18

