

U.S. Department of the Interior
BUREAU OF LAND MANAGEMENT

Well Name: TIBBAR FEDERAL	Well Location: T26N / R9W / SEC 13 / SWNW / 36.490189 / -107.746658	County or Parish/State: SAN JUAN / NM
Well Number: 1	Type of Well: CONVENTIONAL GAS WELL	Allottee or Tribe Name:
Lease Number: NMNM09840	Unit or CA Name:	Unit or CA Number:
US Well Number: 300451167600S1	Well Status: Abandoned	Operator: MORNINGSTAR OPERATING LLC

Subsequent Report

Sundry ID: 2760607

Type of Submission: Subsequent Report

Type of Action: Plug and Abandonment

Date Sundry Submitted: 11/08/2023

Time Sundry Submitted: 03:00

Date Operation Actually Began: 10/19/2023

Actual Procedure: MorningStar Operating has permanently plugged and abandoned the Tibbar Federal #1 as of 10/29/2023. Attached are the Final WBD and Daily Cement Reports.

SR Attachments

Actual Procedure

Tibbar_Federal__1_Final_Cementing_Reports_10_2023_20231108150007.pdf

Tibbar_Federal__1_Final_PA_WBD_10_31_2023_20231108145952.pdf

Well Name: TIBBAR FEDERAL

Well Location: T26N / R9W / SEC 13 / SWNW / 36.490189 / -107.746658

County or Parish/State: SAN JUAN / NM

Well Number: 1

Type of Well: CONVENTIONAL GAS WELL

Allottee or Tribe Name:

Lease Number: NMNM09840

Unit or CA Name:

Unit or CA Number:

US Well Number: 300451167600S1

Well Status: Abandoned

Operator: MORNINGSTAR OPERATING LLC

Operator

I certify that the foregoing is true and correct. 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. Electronic submission of Sundry Notices through this system satisfies regulations requiring a

Operator Electronic Signature: CONNIE BLAYLOCK

Signed on: NOV 08, 2023 03:00 PM

Name: MORNINGSTAR OPERATING LLC

Title: Regulatory Technician

Street Address: 400 W 7th St.

City: Forth Worth

State: TX

Phone: (817) 334-7882

Email address: CBLAYLOCK@MSPARTNERS.COM

Field

Representative Name: Amy Byars

Street Address:

City:

State:

Zip:

Phone:

Email address: abyars@txopartners.com

BLM Point of Contact

BLM POC Name: MATTHEW H KADE

BLM POC Title: Petroleum Engineer

BLM POC Phone: 5055647736

BLM POC Email Address: MKADE@BLM.GOV

Disposition: Accepted

Disposition Date: 11/08/2023

Signature: Matthew Kade



AZTEC WELL SERVICING CO.

CEMENT JOB DETAIL SHEET

CUSTOMER: MORNINGSTAR OPERATING, LLC.	DATE: October 24, 2023	API Number: 30-045-11676	TYPE OF JOB: P & A
LEASE & WELL NAME: TIBBAR FEDERAL #1	LOCATION: Sec.13,T26N,R09W	SERVICE SUP: DEAN MESTAS	
SERVICE CONTRACTOR: RIG 450	OPERATOR: AZTEC WELL SERVICE	COUNTY: SAN JUAN	STATE: NEW MEXICO

MATERIALS FURNISHED:	TYPE OF PLUGS:		LIST CSG. HARDWARE:	SQUEEZE MANIFOLD:	TOP OF EACH FLUID:	PHYSICAL SLURRY PROPERTIES:					
	TOP					SLURRY WEIGHT: Lb/gal	SLURRY YIELD: Cuft/sk	WATER REQ.: Gals/sk	PUMP TIME: hr:mm	SLURRY: bbls	MIX WATER: bbls
	BOTTOM										

PRE-FLUSH - FRESH WATER											
Plug 1: Pumped 3.1bbls cement slurry ((15sx; 15.8ppg, 1.15cuft/ft, 5.0gals/sk))					6158'	15.80	1.15	5.00		3.1	1.8
Plug 2: Pumped 3.1bbls cement slurry ((15sx; 15.8ppg, 1.15cuft/ft, 5.0gals/sk))					5315'	15.80	1.15	5.00		3.1	1.8

AVAILABLE MIX WATER: 380.0 BBLs			AVAILABLE DISPLACEMENT WATER: 300.0 BBLs			TOTAL MIX WATER: 3.6								
HOLE				TBG.-CSG.-D.P.				COLLAR DEPTHS						
SIZE	% EXCESS	DEPTH	SIZE	WEIGHT	TYPE	DEPTH	SIZE	WEIGHT	TYPE	DEPTH	SHOE	FLOAT	STAGE	
12 1/4	100%	296'	8 5/8	24.00	J-55	296'	2 3/8	4.70	J-55	6353'			2100'/4663'	
LAST CASING				PKR-CMT RET-BR PL-LINER				TOP CONNECTION						
SIZE	WEIGHT	TYPE	DEPTH	BRAND & TYPE	DEPTH	TOP	BOTTOM	SIZE	THREAD	TYPE	WEIGHT	WELBORE FLUID		
4 1/2	10.50	J-55	6646'			6388'	6597'	2 3/8	8 ROUND		8.40	PRODUCED WATER		
CALCULATED DISPLACEMENT VOLUME; BBL				CAL. PSI	CAL. MAX PSI	OP. MAX	MAX TBG. PSI	MAX CASING PSI				DISPLACEMENT FLUID		WATER
TUBING	CASING	CASING	TOTAL	BUMP PLUG	TO REVERSE	SQ. PSI	RATED	OPER	RATED	OPER		TYPE	WEIGHT	SOURCE
						650	650		1,100	650		FRESH WATER	8.33	CITY WATER

EXPLANATION: TROUBLE SETTING TOOL, RUNNING CASING, ETC., PRIOR TO CEMENTING:

PUMP DETAILS:						DAILY SUMMARY:					
TIME	PRESSURE - PSI		RATE	BBL FLUID	FLUID	SAFETY MEETING: CREW <input checked="" type="checkbox"/>		CO. REP. <input checked="" type="checkbox"/>			
HR: MIN:	PIPE	ANNULUS	BPM:	PUMPED:	TYPE:	TEST LINES: PSI					
						CIRCULATED THE WELL: RIG PUMP <input type="checkbox"/> CMT PUMP <input checked="" type="checkbox"/>					
6:00	-	-	-	-	-	Travel to location					
7:00	-	-	-	-	-	Pre-Start Inspection, Service & Start equipment					
7:15	0	0/0	-	-	-	Check PSI on Well: Tbg = 0psi; Csg = 0psi; BH = 0psi.					
7:20	-	-	-	-	-	Cont. to TIH w/ tubing to 6353'...tested tubing to 1000psi...tested good...retrieve standing valve...prepare for cement					
8:52	450	0	2.00	4.50	H2O	Pumped 4.5bbls water ahead					
9:00	400	0	2.50	3.10	CEMENT	Pumped 3.1bbls cement slurry ((15sx; 15.8ppg, 1.15cuft/ft, 5.0gals/sk))					
9:02	400	0	2.50	23.80	H2O	Pumped 23.8bbls water displacement...Estimated TOC @ 6158'					
9:11	-	-	-	-	-	SD...WOC 4hrs					
9:15	-	-	-	-	-	TOOH w/ tubing to 5973'...prepare to reverse circulate clean					
9:25	0	450	3.00	25.00	H2O	Pumped 25.0bbls water to reverse circulate tubing clean...circulated 0.5bbls cement to pit					
9:35	-	-	-	-	-	SD and resume WOC time					
13:30	-	-	-	-	-	TIH w/ tag sub and tubing to tag top of cement...Tagged TOC @ 6175'...witnessed by BLM rep.					
13:42	-	-	-	-	-	TOOH w/ tubing to 5510'...prepare to test casing					
14:00	400	0	2.00	2.50	H2O	Pumped 2.5bbls water to load casing...shut in casing & P/T casing to 650psi...NO test...witnessed by BLM rep...prepare for cement					
14:10	350	0	2.00	2.00	H2O	Pumped 2.0bbls water ahead					
14:15	350	0	2.00	3.10	CEMENT	Pumped 3.1bbls cement slurry ((15sx; 15.8ppg, 1.15cuft/ft, 5.0gals/sk))					
14:17	300	0	2.50	20.60	H2O	Pumped 20.6bbls water displacement...Estimated TOC at 5315'					
14:20	-	-	-	-	-	SD...WOC 4hrs					
14:37	-	-	-	-	-	TOOH w/ tubing to 5135'...prepare to reverse circulate clean					
14:40	0	400	2.50	22.00	H2O	Pumped 22.0bbls water to reverse circulate tubing clean...circulated 0.75bbl cement to pit					
14:55	-	-	-	-	-	TOOH w/ tubing to 4895'					
15:10	-	-	-	-	-	SD and resume WOC time					
15:20	-	-	-	-	-	Secure wellhead & location...SDON					
15:30	-	-	-	-	-	Travel to the yard					

BUMPED PLUG:	PSI TO BUMP PLUG:	TEST FLOAT EQUIPMENT:	TOTAL BBL. PUMPED:	BBL CMT. RETURNS/ REVERSED:	PSI LEFT ON CSG.:	SPOT TOP CEMENT:	AZTEC WELL SERVICING CO REP.: DEAN MESTAS	CUSTOMER REP.: JASON PEACE	CUSTOMER REP. SIGNATURE: _____
			106.6		0	6158'/5315'			CUSTOMER AUTHORIZING AGENT



AZTEC WELL SERVICING CO.

CEMENT JOB DETAIL SHEET

CUSTOMER:	MORNINGSTAR OPERATING, LLC.	DATE:	October 25, 2023	API Number:	30-045-11676	TYPE OF JOB:	P & A
LEASE & WELL NAME:	TIBBAR FEDERAL #1	LOCATION:	Sec.13,T26N,R09W	SERVICE SUP:	DEAN MESTAS		
SERVICE CONTRACTOR:	RIG 450	OPERATOR:	AZTEC WELL SERVICE	COUNTY:	SAN JUAN	STATE:	NEW MEXICO

MATERIALS FURNISHED:	TYPE OF PLUGS:		LIST CSG. HARDWARE:	SQUEEZE MANIFOLD:	TOP OF EACH FLUID:	PHYSICAL SLURRY PROPERTIES:					
	TOP					SLURRY WEIGHT: Lb/gal	SLURRY YIELD: Cuft/sk	WATER REQ.: Gals/sk	PUMP TIME: hr:mm	SLURRY: bbls	MIX WATER: bbls
	BOTTOM										

PRE-FLUSH - FRESH WATER											
Plug 3: Pumped 2.5bbls cement slurry ((12sx; 15.8ppg, 1.15cuft/ft, 5.0gals/sk))					4306'	15.80	1.15	5.0		2.5	1.4
Plug 4: Pumped 3.1bbls cement slurry ((15sx; 15.8ppg, 1.15cuft/ft, 5.0gals/sk))					3400'	15.80	1.15	5.0		3.1	1.8

AVAILABLE MIX WATER:	380.0 BBLs	AVAILABLE DISPLACEMENT WATER:	300.0 BBLs	TOTAL MIX WATER:	3.2
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HOLE			TBG.-CSG.-D.P.				TBG.-CSG.-D.P.				COLLAR DEPTHS		
SIZE	% EXCESS	DEPTH	SIZE	WEIGHT	TYPE	DEPTH	SIZE	WEIGHT	TYPE	DEPTH	SHOE	FLOAT	STAGE
12 1/4	100%	296'	8 5/8	24.00	J-55	296'	2-3/8	4.70	J-55	5357'			

LAST CASING				PKR-CMT RET-BR PL-LINER				PERF DEPTHS		TOP CONNECTION		WELLBORE FLUID	
SIZE	WEIGHT	TYPE	DEPTH	BRAND & TYPE	DEPTH	TOP	BOTTOM	SIZE	THREAD	TYPE	WEIGHT	PRODUCED WATER	
4 1/2	10.50	J-55	6646'			6388'	6597'	2 3/8	8 ROUND			8.40	

CALCULATED DISPLACEMENT VOLUME; BBL				CAL. PSI	CAL. MAX PSI	OP. MAX	MAX TBG. PSI	MAX CASING PSI	DISPLACEMENT FLUID		WATER		
TUBING	CASING	CASING	TOTAL	BUMP PLUG	TO REVERSE	SO. PSI	RATED	OPER	RATED	OPER	TYPE	WEIGHT	SOURCE
						750				650	FRESH WATER	8.33	CITY WATER

EXPLANATION: TROUBLE SETTING TOOL, RUNNING CASING, ETC., PRIOR TO CEMENTING:

PUMP DETAILS:						DAILY SUMMARY:					
TIME HR: MIN:	PRESSURE - PSI		RATE	BBL FLUID	FLUID	SAFETY MEETING:		CREW		CO. REP.	
	PIPE	ANNULUS	BPM:	PUMPED:	TYPE:	TEST LINES:	TEST LINES:	TEST LINES:	TEST LINES:	TEST LINES:	TEST LINES:
6:00	-	-	-	-	-	CIRCULATED THE WELL:	RIG PUMP	CMT PUMP			
7:00	-	-	-	-	-	Travel to location					
7:10	0	0/0	-	-	-	Pre-Start Inspection, Service & Start equipment					
7:15	-	-	-	-	-	Check PSI on Well: Tbg = 0psi; Csg = 0psi; BH = 0psi.					
7:30	650	650	2.00	2.50	H2O	TIH w/ tubing to tag top of cement...Tagged TOC @ 5357'...witnessed by BLM rep.					
7:45	-	-	-	-	-	Pumped 2.5bbls water to load casing...shut casing & P/T casing to 650psi...NO test...witnessed by BLM rep.					
9:15	-	-	-	-	-	TOOH w/ tubing & LD tag sub					
9:38	-	-	-	-	-	RIH w/ perf gun & WL to perf depth of 4515'...perforated casing successfully					
9:45	-	-	-	-	-	ROOH w/ wireline & LD perf gun...verified all shots fired					
10:55	400	0	2.50	2.50	H2O	TIH w/retainer & tubing to setting depth of 4463'...rotate & set retainer successfully...STING out ofretainer					
11:02	350	0	1.00	0.50	H2O	Pumped 2.5bbls water to load casing...STING back into retainer					
11:22	350	0	2.50	2.00	H2O	Pumped 0.5bbl water to est. inj. rate...tbg pressured out to 1100psi...no inj. rate est...STING out of ret...prepare for cement					
11:24	300	0	2.50	2.50	CEMENT	Pumped 2.0bbls water ahead					
11:27	300	0	3.00	16.70	H2O	Pumped 2.5bbls cement slurry ((12sx; 15.8ppg, 1.15cuft/ft, 5.0gals/sk))					
11:35	-	-	-	-	-	Pumped 16.7bbls water for displacement...Est. TOC at 4306'					
11:40	-	-	-	-	-	SD...WOC 4hrs					
12:30	-	-	-	-	-	TOOH w/ tubing & LD stinger					
-	-	-	-	-	-	TIH w/ tag sub & tubing to 3500'					
15:45	-	-	-	-	-	SD...resume WOC time					
15:50	-	-	-	-	-	TIH w/ tubing to tag top of cement...Tagged TOC @ 4328" ...witnessed by BLM rep.					
16:30	650	650	2.50	2.50	H2O	TOOH w/ tubing to 3595'...prepare to test casing					
16:38	250	0	1.00	1.00	H2O	Pumped 2.5bbls water to load casing...shut casing & P/T casing to 650psi...NO test...Prepare for cement					
16:50	350	0	2.50	3.10	CEMENT	Pumped 1.0bbls water ahead					
16:52	300	0	2.50	13.20	H2O	Pumped 3.1bbls cement slurry ((15sx; 15.8ppg, 1.15cuft/ft, 5.0gals/sk))					
16:57	-	-	-	-	-	Pumped 13.2bbls water for displacement...Est. TOC at 3400'					
-	-	-	-	-	-	SD...WOC 4hrs					
17:10	0	300	3.00	14.00	H2O	TOOH w/ tubing 3211'...prepare to reverse circ. tubing clean					
17:15	-	-	-	-	-	Pumped 14.0bbls water to reverse circ. tubing celan...had 0.25bbl cement to pit					
17:20	-	-	-	-	-	TOOH w/ tubing to 2454'					
17:30	-	-	-	-	-	SD...resume WOC time overnight					
18:00	-	-	-	-	-	Secure wellhead and equipment...SDON					
						Travel back to the yard					

BUMPED PLUG:	PSI TO BUMP PLUG:	TEST FLOAT EQUIPMENT:	TOTAL BBL PUMPED:	BBL CMT. RETURNS/ REVERSED:	PSI LEFT ON CSG.:	SPOT TOP CEMENT:	AZTEC WELL SERVICING CO REP.:	DEAN MESTAS
			60.5	0.3	0	4306'/3400'	CUSTOMER REP.:	JASON PEACE
							CUSTOMER REP. SIGNATURE:	
								CUSTOMER AUTHORIZING AGENT



AZTEC WELL SERVICING CO.

CEMENT JOB DETAIL SHEET

CUSTOMER:	MORNINGSTAR OPERATING, LLC.	DATE:	October 26, 2023	API Number:	30-045-11676	TYPE OF JOB:	P & A
LEASE & WELL NAME:	TIBBAR FEDERAL #1	LOCATION:	Sec.13,T26N,R09W	SERVICE SUP:	DEAN MESTAS		
SERVICE CONTRACTOR:	RIG 450	OPERATOR:	AZTEC WELL SERVICE	COUNTY:	SAN JUAN	STATE:	NEW MEXICO

MATERIALS FURNISHED:	TYPE OF PLUGS:		LIST CSG. HARDWARE:	SQUEEZE MANIFOLD:	TOP OF EACH FLUID:	PHYSICAL SLURRY PROPERTIES:					
	TOP	BOTTOM				SLURRY WEIGHT: Lb/gal	SLURRY YIELD: Cuft/sk	WATER REQ.: Gals/sk	PUMP TIME: hr:mm	SLURRY: bbls	MIX WATER: bbls
PRE-FLUSH - FRESH WATER											
Plug 5: Pumped 10.7bbls cement slurry ((52sx; 15.8ppg, 1.15cuft/ft, 5.0gals/sk)) 40sx out; 4sx blw ret.; 8sx on top					2353'	15.80	1.15	5.00		10.2	6.2
Plug 6: Pumped 7.2bbls cement slurry ((35sx; 15.8ppg, 1.15cuft/ft, 5.0gals/sk))					1592'	15.80	1.15	5.00		7.2	4.2

AVAILABLE MIX WATER:	380.0 BBLs	AVAILABLE DISPLACEMENT WATER:	300.0 BBLs	TOTAL MIX WATER:	10.4										
HOLE			TBG.-CSG.-D.P.				TBG.-CSG.-D.P.				COLLAR DEPTHS				
SIZE	% EXCESS	DEPTH	SIZE	WEIGHT	TYPE	DEPTH	SIZE	WEIGHT	TYPE	DEPTH	SHOE	FLOAT	STAGE		
12 1/4	100%	296'	8 5/8	24.00	J-55	296'	2 3/8	4.70	J-55	3398'			2100'/4663'		
LAST CASING			PKR-CMT RET-BR PL-LINER				PERF DEPTHS				TOP CONNECTION				
SIZE	WEIGHT	TYPE	DEPTH	BRAND & TYPE	DEPTH	TOP	BOTTOM	SIZE	THREAD	TYPE	WEIGHT	WELLBORE FLUID			
4 1/2	10.50	J-55	6646'			6388'	6597'	2 3/8	8 ROUND		8.40	PRODUCED WATER			
CALCULATED DISPLACEMENT VOLUME; BBL				CAL. PSI	CAL. MAX PSI	OP. MAX	MAX TBG. PSI	MAX CASING PSI				DISPLACEMENT FLUID		WATER	
TUBING	CASING	CASING	TOTAL	BUMP PLUG	TO REVERSE	SQ. PSI	RATED	OPER	RATED	OPER	RATED	OPER	TYPE	WEIGHT	SOURCE
					650	650		1,100		650			FRESH WATER	8.33	CITY WATER

EXPLANATION: TROUBLE SETTING TOOL, RUNNING CASING, ETC., PRIOR TO CEMENTING:

PUMP DETAILS:						DAILY SUMMARY:					
TIME	PRESSURE - PSI		RATE	BBL FLUID	FLUID	SAFETY MEETING: CREW <input checked="" type="checkbox"/> CO. REP. <input checked="" type="checkbox"/>					
HR: MIN:	PIPE	ANNULUS	BPM:	PUMPED:	TYPE:	TEST LINES: _____ PSI					
						CIRCULATED THE WELL: RIG PUMP <input type="checkbox"/> CMT PUMP <input checked="" type="checkbox"/>					
6:00	-	-	-	-	-	Travel to location					
7:00	-	-	-	-	-	Pre-Start Inspection, Service & Start equipment					
7:15	0	0/0	-	-	-	Check PSI on Well: Tbg = 0psi; Csg = 0psi; BH = 0psi.					
7:30	-	-	-	-	-	TIH w/ tubing to tag top of cement...Tagged TOC at 3398'...witnessed by BLM					
7:54	-	-	-	-	-	TOOH w/ tubig to 2454'...prepare to test casing					
8:05	-	-	-	-	H2O	Pumped 4.5bbls water to load casing...SHUT in casing...Pressure tested casing to 650psi...NO test...witnessed by BLM rep.					
8:18	-	-	-	-	-	TOOH w/ tubing & LD tag sub...RU wireline service to perforate casing					
-	-	-	-	-	-	RIH w/ perf gun and wireline to perf depth of 2502'...perforated casing successfully					
-	-	-	-	-	-	ROOH w/ wireline & LD perf gun...verified all shots fired					
9:20	-	-	-	-	-	TIH w/ cement retainer & tbg to setting depth of 2454'...rotate & set retainer successfully...STING out					
10:27	-	0	1.00	2.00	H2O	Pumped 2.0bbls water to load casing...STING back into retainer to est. inj. Rate					
10:35	1,000	0	1.00	4.50	H2O	Pumped 4.5bbls to est. inj rate at 1.0bpm at 1000psi...prepare for cement					
10:53	950	0	1.00	2.00	H2O	Pumped 2.0bbls water ahead					
10:55	850	0	1.50	10.70	CEMENT	Pumped 10.7bbls cement slurry ((52sx; 15.8ppg, 1.15cuft/ft, 5.0gals/sk)) 40sx out; 4sx blw ret.; 8sx on top					
11:00	900	0	1.50	7.90	H2O	Pumped 7.9bbls water for displacement...est. TOC @ 2353'					
11:10	-	-	-	-	-	SD...STING out...WOC 4hrs					
11:30	-	-	-	-	-	TOOH w/ tubing & LD stinger					
-	-	-	-	-	-	TIH w/ tag sub to 1375'					
-	-	-	-	-	-	SD...resume WOC time					
16:20	-	-	-	-	-	TIH w/ tubing to tag top of cement...Tagged TOC at 2296'...witnessed by BLM and approved higher than expected tag...wait on OCD					
-	-	-	-	-	-	TOOH e/ tubi g to 2045'...prepare to test casing...waiting on OCD approval					
-	650	650	2.00	-1.50	H2O	Pumped 1.5bbls water to load casing...SHUT in casing...Pressure tested casaing to 650psi...NO test...witnessed by B:LM rep.					
17:30	-	-	-	-	-	***NMOC approved to move forward with higher than expected tag					
17:35	200	0	2.00	2.00	H2O	Pumped 2.0bbls water ahead					
17:37	150	0	2.00	7.20	CEMENT	Pumped 7.2bbls cement slurry ((35sx; 15.8ppg, 1.15cuft/ft, 5.0gals/sk))					
17:42	100	0	2.00	6.20	H2O	Pumped 6.2bbls water for displacement...est. TOC @ 1592"					
17:45	-	-	-	-	-	SD...WOC overnight					
17:50	-	-	-	-	-	TOOH w/ tubing to 520'					
18:10	-	-	-	-	-	SD					
18:15	-	-	-	-	-	Secure wellhead & location...SDON					
18:30	-	-	-	-	-	Travel to the yard					

BUMPED PLUG:	PSI TO BUMP PLUG:	TEST FLOAT EQUIPMENT:	TOTAL BBL PUMPED:	BBL CMT. RETURNS/ REVERSED:	PSI LEFT ON CSG.:	SPOT TOP CEMENT:	AZTEC WELL SERVICING CO REP.:	DEAN MESTAS
			41.0	2.0	0	2353'/1592'	CUSTOMER REP.:	JASON PEACE
							CUSTOMER REP. SIGNATURE:	
								CUSTOMER AUTHORIZING AGENT



CEMENT JOB DETAIL SHEET

CUSTOMER: **MORNINGSTAR OPERATING, LLC.** DATE: **October 27, 2023** API Number: **30-045-11676** TYPE OF JOB: **P & A**
 LEASE & WELL NAME: **TIBBAR FEDERAL #1** LOCATION: **Sec.13,T26N,R09W** SERVICE SUP: **DEAN MESTAS**
 SERVICE CONTRACTOR: **RIG 450** OPERATOR: **AZTEC WELL SERVICE** COUNTY: **SAN JUAN** STATE: **NEW MEXICO**

MATERIALS FURNISHED:	TYPE OF PLUGS:		LIST CSG. HARDWARE:	SQUEEZE MANIFOLD:	TOP OF EACH FLUID:	PHYSICAL SLURRY PROPERTIES:						
	TOP	BOTTOM				SLURRY WEIGHT: Lb/gal	SLURRY YIELD: Cuft/sk	WATER REQ.: Gals/sk	PUMP TIME: hr:mm	SLURRY: bbls	MIX WATER: bbls	
PRE-FLUSH - FRESH WATER												
Plug 7: Pumped 4.1bbls cement slurry ((20sx; 15.8ppg, 1.15cuft/ft, 5.0gals/sk))					1104'	15.8	1.15	5.0			4.1	2.4
Plug 7 top off: Pumped 2.5bbls cement slurry ((12sx; 15.8ppg, 1.15cuft/ft, 5.0gals/sk))					1028'	15.8	1.15	5.0			2.5	1.4
Plug 8: Pumped 29.8bbls cement slurry ((145sx; 15.8ppg, 1.15cuft/ft, 5.0gals/sk)) circ. 2.0bbls good cement to pit					Surface	15.8	1.15	5.0			29.8	17.3
Top off & Cellar: Pumped 4.5bbls cement slurry ((22sx; 15.8ppg, 1.15cuft/ft, 5.0gals/sk))					Surface	15.8	1.15	5.0			4.5	2.6

AVAILABLE MIX WATER: 380.0 BBLs				AVAILABLE DISPLACEMENT WATER: 300.0 BBLs								TOTAL MIX WATER: 23.7				
HOLE				TBG.-CSG.-D.P.				TBG.-CSG.-D.P.				COLLAR DEPTHS				
SIZE	% EXCESS	DEPTH	SIZE	WEIGHT	TYPE	DEPTH	SIZE	WEIGHT	TYPE	DEPTH	SHOE	FLOAT	STAGE			
12 1/4	100%	296'	8 5/8	24.00	J-55	296'	2 3/8	4.70	J-55	1561'			2100'/4663'			
LAST CASING				PKR-CMT RET-BR PL-LINER				PERF DEPTHS		TOP CONNECTION		WELLBORE FLUID				
SIZE	WEIGHT	TYPE	DEPTH	BRAND & TYPE		DEPTH	TOP	BOTTOM	SIZE	THREAD	TYPE		WEIGHT			
4 1/2	10.50	J-55	6646'				6388'	6597'	2 3/8	8 ROUND	PRODUCED WATER		8.40			
CALCULATED DISPLACEMENT VOLUME: BBL				CAL. PSI	CAL. MAX PSI		OP. MAX	MAX TBG. PSI		MAX CASING PSI		DISPLACEMENT FLUID		WATER		
TUBING	CASING	CASING	TOTAL	BUMP PLUG	TO REVERSE	SO. PSI	RATED	OPER	RATED	OPER	TYPE		WEIGHT	SOURCE		
						650		650		1,100			650	FRESH WATER	8.33	CITY WATER

EXPLANATION: TROUBLE SETTING TOOL, RUNNING CASING, ETC., PRIOR TO CEMENTING:

PUMP DETAILS:						DAILY SUMMARY:					
TIME HR: MIN	PRESSURE - PSI		RATE	BBL FLUID	FLUID	SAFETY MEETING:		CREW		CO. REP.	
	PIPE	ANNULUS	BPM	PUMPED:	TYPE:	TEST LINES:					
6:00	-	-	-	-	-	CIRCULATED THE WELL:	RIG PUMP		CMT PUMP		
7:00	-	-	-	-	-	Travel to location					
7:10	0	0/0	-	-	-	Pre-Start Inspection, Service & Start equipment					
	-	-	-	-	-	Check PSI on Well: Tbg = 0psi; Csg = 0psi; BH = 0psi.					
	-	-	-	-	-	TIH w/ tubing to tag top of cement...Tagged TOC at 1561', witnessed by BLM					
	-	-	-	-	-	TOOH w/ tubig to 1362'...prepare to test casing					
	200	0	2.00	2.00	H2O	Pumped 2.0bbls water to load casing...SHUT in casing...Pressure tested casing to 650psi...NO test...witnessed by BLM rep.					
	200	0	2.00	1.00	H2O	Pumped 1.0bbl water ahead					
	150	0	2.00	4.10	CEMENT	Pumped 4.1bbls cement slurry ((20sx; 15.8ppg, 1.15cuft/ft, 5.0gals/sk))					
	150	0	2.00	4.30	H2O	Pumped 4.3bbls water for displacement...Est. TOC at 1104'					
8:20	-	-	-	-	-	SD...WOC 4hrs					
8:30	-	-	-	-	-	TOOH w/ tubing					
12:20	-	-	-	-	-	TIH w/ tubing to tag top of cement...Tagged TOC at 1185', witnessed by BLM...TOC to low, not enough coverage for formation					
	-	-	-	-	-	***BLM/OCD require to top off plug 7...notified office					
13:00	0	250	2.50	8.00	H2O	Pumped 8.0bbls water to reverse circulate casing/tubing clean for plug 7 top off...had 0.5bbl of cement to pit...prepare for cement					
13:10	200	0	2.00	1.00	H2O	Pumped 1.0bbl water ahead					
13:15	150	0	2.00	2.50	CEMENT	Pumped 2.5bbls cement slurry ((12sx; 15.8ppg, 1.15cuft/ft, 5.0gals/sk))					
13:18	150	0	2.00	3.90	H2O	Pumped 3.9bbls water for displacement...Est. TOC at 1028'					
13:21	-	-	-	-	-	SD...WOC 4hrs					
13:28	-	-	-	-	-	TOOH w/ tubing					
17:10	-	-	-	-	-	TIH w/ tubing to tag top of cement...Tagged TOC at 1058', witnessed by BLM					
17:30	-	-	-	-	-	TOOH & LD tubing					
17:53	-	-	-	-	-	RIH w/ perf gun and wireline to perf depth of 350'...perforated casing successfully					
18:00	-	-	-	-	-	ROOH w/ wireline & LD perf gun...verified all shots fired...closed blind rams on BOP					
18:15	80	0	2.00	6.00	-	Pumped 6.0bbls water to est. inj. Rate from surface...Established injection rate at 3.0bbls/hr at 80psi with circulation thru BH					
18:20	-	-	-	-	-	SD...prepare for cement					
18:25	80	0	2.00	1.00	H2O	Pumped 1.0bbl water ahead					
18:27	50	0	3.00	29.80	CEMENT	Pumped 29.8bbls cement slurry ((145sx; 15.8ppg, 1.15cuft/ft, 5.0gals/sk)) circulated 2.0bbls good cement thru BH to the pit					
18:38	-	-	-	-	-	SD...cement at surface					
18:40	-	-	-	-	-	NDBOP...rig down handling equipment & rig floor					
19:10	-	-	-	-	-	MIRU welder...cut off wellhead, cement still at surface after cutoff...INSTALL dry hole marker...witnessed by BLM					
19:45	50	0	1.00	4.50	CEMENT	Pumped 4.5bbls cement slurry ((22sx; 15.8ppg, 1.15cuft/ft, 5.0gals/sk)) for top off and cellar					
	-	-	-	-	-	SD...wash up equipment					
	-	-	-	-	-	Secure equipment & location					
20:00	-	-	-	-	-	Travel to the yard					

BUMPED PLUG:	PSI TO BUMP PLUG:	TEST FLOAT EQUIPMENT:	TOTAL BBL. PUMPED:	BBL CMT. RETURNS/ REVERSED:	PSI LEFT ON CSG.:	SPOT TOP CEMENT:	AZTEC WELL SERVICING CO REP.:	DEAN MESTAS
			68.1		0	1185'/1058'/Surf.	CUSTOMER REP.:	JASON PEACE
							CUSTOMER REP. SIGNATURE:	

MorningStar Operating, LLC

Final P&A WBD

**Tibbar Federal #1
San Juan County, NM**

TD – 6,646 ft MD

12-1/4" hole to 296' KB
Surface Csg: 9 jts 8-5/8" 24# J55 STC
Setting Depth: 296 ft

Cement
175sx Reg cement
WOC & test

7-7/8" hole to 6646'
Prod Csg: 206 jts 4-1/2" 10.5# J55 STC
Setting Depth: 6,646 ft
DV tools @ 2100' & 4663'

Cement
1st stage lead: 175sx 50/50 Pozmix
1st stage tail: 100sx reg cement
2nd stage: 250sx 50/50 Pozmix
3rd stage: 500sx 50/50 Pozmix

Perfs: (Dakota): (4 spf):
6,388'-98', 6,426'-30', 6,480'-90',
6,564'-68', 6,584'-97'

Casing squeeze (1/27/1986):
Set RBP @ 6250', Determine casing
leak between 2103' to 3590' w/ pkr.
Squeeze w/ 450sx Class H (561 ft³)
Drillout and test to 1500 psi good
6/19/2001 – test same to 650 psi, good

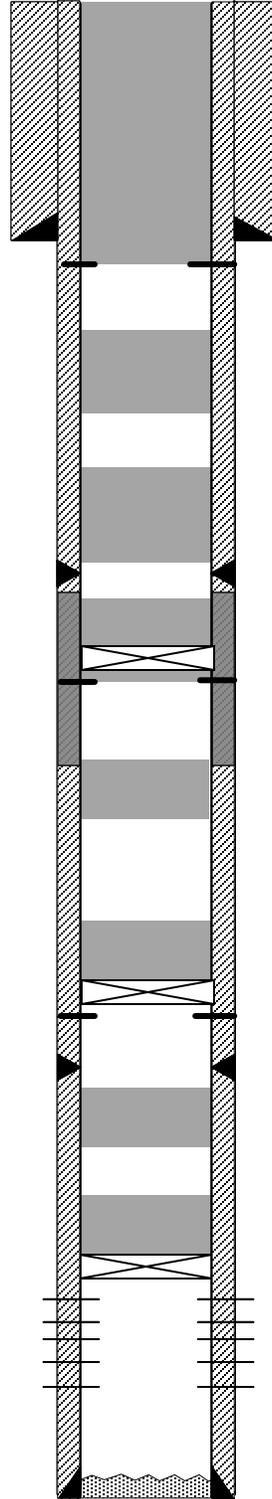
Dakota Perfs:
6,388' – 6,597' (overall)

Prepared by: JRyza
Date: 05/18/2023
Updated and Final P&A Bberry
10/31/2023

KB = 12 ft
GL = 6,295 ft
API# 30-045-11676

Spud Date: 05/05/1966
Ready to produce: 05/20/1966

Nacimiento: surface
Ojo Alamo: 1,208'
Kirtland: 1,312'
Fruitland: 1,720'
Pictured Cliffs: 1,993'
Chacra: 2,452'
Mesaverde: 3,544'
Mancos: 4,465'
Gallup: 5,460'



PLUG 8 – perf 350' – est circulation around and through BH – cmt 145 sx circulate 2.0 bbls good cmt thru BH – cement to surface all csqs – cutoff WH, cmt still at surf – install DHM, top off 22 sx cmt – Final plug 350' – surf.

PLUG 7 (Kirtland, Ojo) – test csg no test – witnessed by BLM rep – balance plug cmt 20 sx from 1362' – WOC 4hrs tag cmt 1185' – tag witnessed by BLM – plug height too low – notify and confirm with OCD/BLM need to add cmt to plug – add top off 12 sx cmt – WOC 4hrs tag cmt 1058' – tag witnessed by BLM rep Final plug 1362' - 1058'

PLUG 6 (PC, Fruitland) – test csg no test – witnessed by BLM rep – balance plug from 2045' 35 sx cmt – WOC 4hrs tag cmt 1561' – tag witnessed by BLM rep – Final plug 2045' - 1561'

PLUG 5 (Chacra) – tst csg no test – witnessed by BLM – perf 2502' – set cmt retainer 2454' – attempt to est inj – est inj 1.0 bpm at 1000 psig – cmt 52 sx total – 40 sx behind pipe, 4 sx below retainer, 8 sx on top of retainer – WOC 4hrs tag cmt 2296' (vs 2353' estimated) – tag witnessed by BLM rep – tag depth higher than expected approved by BLM and OCD – final plug 2454' - 2296'

PLUG 4 (MV) – test csg no test – witnessed by BLM rep – balance plug 15 sx from 3595' – WOC 4 hrs tag cmt 3398' – tag witnessed by BLM rep - Final plug 3595' - 3398'

PLUG 3 (Mancos) – test csg no test – witnessed by BLM rep - perf 4515' – set retainer 4463' – attempt inj below tbq pressure out at 1100 psi and no inj – spot 12 sx cmt on top of retainer – WOC 4hrs tag cmt 4328' – tag witnessed by BLM Rep – Final plug 4463' - 4328'

PLUG 2 (Gallup) – test csg no test – witnessed by BLM rep – Balance plug 15 sx cmt from 5510' – WOC 4hrs tag cmt 5357' – tag witnessed by BLM rep – Final plug 5510' - 5357'

PLUG 1 – set CICR @ 6353' – test csg no test - witnessed by BLM Rep – pump 15 sx cmt on top of CICR and WOC 4hrs – Tag cmt 6175' Tag witnessed by BLM Rep – Final plug 6353' - 6175'

PBTD: 6,624 ft MD

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 Rd., Aztec, NM 87410
 Phone:(505) 334-6178 Fax:(505) 334-6170

District IV
 1220 S. St Francis Dr., Santa Fe, NM 87505
 Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS
 Action 284837

CONDITIONS

Operator: MorningStar Operating LLC 400 W 7th St Fort Worth, TX 76102	OGRID: 330132
	Action Number: 284837
	Action Type: [C-103] Sub. Plugging (C-103P)

CONDITIONS

Created By	Condition	Condition Date
mkuehling	well plugged 10/27/2023	11/14/2023