

Well Name: COMANCHE 25-36 FED STATE COM	Well Location: T26S / R35E / SEC 25 / NWNE / 32.0205001 / -103.3172833	County or Parish/State: LEA / NM
Well Number: 4H	Type of Well: OIL WELL	Allottee or Tribe Name:
Lease Number: NMNM125402	Unit or CA Name:	Unit or CA Number:
US Well Number: 300254745200X1	Well Status: Drilling Well	Operator: CAZA OPERATING LLC

Subsequent Report

Type of Submission: Subsequent Report	Type of Action: Drilling Operations
Date Sundry Submitted: 02/20/2021	Time Sundry Submitted: 01:47
Date Operation Actually Began: 02/08/2021	

Actual Procedure: 02/08/2021 - Drilled 12.25" hole to 9,340'MD. Ran 9.625" HCL80 40# BTC casing to 7,170'MD and 9.625" HCL80 47# BTC casing to 9,329'MD. ECP @ 4,920'MD and DV tool @ 4,917'MD. Cement stage 1 with 1070sx lead 11.5ppg 50/50 POZ Class C + 5% + 4% Gel + 0.2% CPT-19 + 2% CPT-45 + 0.4% CPT-503P + 5% Gypsum + 0.45% CPT20A + 0.45% Citric Acid. Tail 300sx 15.6ppg Class H + 0.1% CPT-23 + 0.1% CPT-51A. Stage 2 Lead 1450sx 11.5ppg 50/50 POZ Class C + 5% CaCl2 + 4% Gel + 0.2% CPT-19 + 2% CPT-45 + 0.4% CPT-503P + 5% Gypsum + 0.45% CPT20A + 0.45% Citric Acid. Tail 150sx 14.8ppg Class C + 0.1% CPT-24. Circulate 30bbls (73sx) to surface).

SR Attachments

PActual Procedure

Comanche_25_36_State_Fed_Com_4H___Intermediate_Cement_Report___BLM_20210220014529.pdf

Comanche_25_36_State_Fed_Com_4H___Intermediate_Casing_Tally_Final_as_ran_20210220014337.pdf

Received by OCD: 2/25/2021 6:26:04 AM

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US Well Number: 300254745200X1	Well Status: Drilling Well	Operator: CAZA OPERATING LLC

Operator Certification

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 submission of Form 3160-5 or a Sundry Notice.

Operator Electronic Signature: MORRIS	Signed on: FEB 20, 2021 01:45 AM
Name: CAZA OPERATING LLC	
Title: Engineer	
Street Address: 200 N. Loraine Street, Suite 1550	
City: Midland	State: TX
Phone: (432) 682-7424	
Email address: NOT ENTERED	

Field Representative

Representative Name: STEVE MORRIS		
Street Address: 200 N. LORRAINE ST 1550		
City: MIDLAND	State: TX	Zip: 79701
Phone: (198)541-5972		
Email address: steve.morris@morcorengineering.com		

BLM Point of Contact

BLM POC Name: Jonathon W Shepard	BLM POC Title: Petroleum Engineer
BLM POC Phone: 5752345972	BLM POC Email Address: jshepard@blm.gov
Disposition: Accepted	Disposition Date: 02/24/2021
Signature: Jonathon Shepard	

Rig: Citadel #4
Well: Comanche 25-36 S.F.C 4H
County: Lea
Prospect: Wolfcamp Z
Date: 2/3/2021



	Bottom Csg	Top Csg
Casing Size (in)	9 5/8	9 5/8
Connection Type	BTC	BTC
Weight (lb/ft)	47.0	40.0
Grade	HCL80	HCL80
Casing I.D. (in)	8.681	8.835
Casing Drift (in)	8.500	8.75
Capacity (bbl/ft)	0.0732	0.0758 *
Disp. (bbl/ft)	0.0168	0.0142 *
Mud Wt. (ppg)	10.00	10.00
Bouyancy Factor	0.847	0.847 *
Block Weight (lbs)	47000.000	47000.000
Burst Strength (psi)	7,100	5,750
Collapse Strength (psi)	6,870	4,230
Tension Strength (lb)	1,027,000	836,000
Min torque (ft-lbs)	7,610	6,200
Optimum torque (ft-lbs)	10,150	8,270
Max torque (ft-lbs)	12,690	10,340
Confirmed drift OD (in)	8.68	8.53

Total Jts on Loc.	54	173
Total Jts ran in hole	51	169
Total Jts remain out	3	4
Marker Jts on Loc.		2
Marker Jts ran in hole		0
Marker Jts remain out		0
Damaged Jts on Loc.	0	0

T.D. (ft)	9,340.00 (From KB)
Shoe Depth (ft)	9,329.39
Top of FC (ft)	9,283.05

XO Info:	
OD	
ID	
Length	
Top Depth	

Top Liner (ft):	
Liner Lap(ft):	

Btm Csg Length	2,112.76 *
Top Csg Length	7,175.27 *

RKB to GL (ft)	23.60
RKB to 20" Cond. (ft.)	
RKB to 5.5" Mandrel (ft)	

13 3/8 Landing Joint	?	(see instructions)
9 5/8" Landing Jt	?	(see instructions)

Required Stick Up (ft)	4.5 *
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**type "out" in comments to remove jt from calculations

(* = Auto Calc.)

Joint #	Run In Hole #	JOINT LENGTH (ft)	CUM. LENGTH (ft) *	DEPTH FROM KB TO TOP OF JT (ft)*	O.D. *	Wt. (lb/ft) *	Wt. Ind. READING (lbs) *	CAP. (BBI) *	DISPL. (BBI) *	COMMENTS:
Shoe		1.98	1.98	9,327.41	9.625	47.00	47,079	0.14	0.03	Shoe
227	1	42.41	44.39	9,285.00	9.625	47.00	48,767	3.25	0.75	Centralizer
FC		1.95	46.34	9,283.05	9.625	47.00	48,845	3.39	0.78	Float Collar
226	2	41.25	87.59	9,241.80	9.625	47.00	50,487	6.41	1.47	Centralizer
225	3	40.98	128.57	9,200.82	9.625	47.00	52,118	9.41	2.16	Centralizer
224	4	42.16	170.73	9,158.66	9.625	47.00	53,797	12.50	2.87	
223	5	42.45	213.18	9,116.21	9.625	47.00	55,486	15.60	3.58	
222	6	42.42	255.60	9,073.79	9.625	47.00	57,175	18.71	4.29	
221	7	42.01	297.61	9,031.78	9.625	47.00	58,848	21.79	5.00	
220	8	42.41	340.02	8,989.37	9.625	47.00	60,536	24.89	5.71	Centralizer
219	9	41.59	381.61	8,947.78	9.625	47.00	62,192	27.93	6.41	
218	10	42.05	423.66	8,905.73	9.625	47.00	63,865	31.01	7.12	
217	11	42.24	465.90	8,863.49	9.625	47.00	65,547	34.10	7.83	
216	12	42.43	508.33	8,821.06	9.625	47.00	67,236	37.21	8.54	
215	13	42.41	550.74	8,778.65	9.625	47.00	68,924	40.31	9.25	Centralizer
214	14	42.40	593.14	8,736.25	9.625	47.00	70,612	43.42	9.96	
213	15	42.41	635.55	8,693.84	9.625	47.00	72,301	46.52	10.68	
212	16	42.41	677.96	8,651.43	9.625	47.00	73,989	49.63	11.39	
211	17	42.42	720.38	8,609.01	9.625	47.00	75,678	52.73	12.10	
210	18	42.41	762.79	8,566.60	9.625	47.00	77,366	55.84	12.81	Centralizer
209	19	41.46	804.25	8,525.14	9.625	47.00	79,016	58.87	13.51	
208	20	42.42	846.67	8,482.72	9.625	47.00	80,705	61.98	14.22	
207	21	42.41	889.08	8,440.31	9.625	47.00	82,393	65.08	14.94	
206	22	41.64	930.72	8,398.67	9.625	47.00	84,051	68.13	15.64	
205	23	41.60	972.32	8,357.07	9.625	47.00	85,707	71.17	16.33	Centralizer
204	24	42.41	1,014.73	8,314.66	9.625	47.00	87,395	74.28	17.05	
203	25	42.44	1,057.17	8,272.22	9.625	47.00	89,085	77.38	17.76	
202	26	42.40	1,099.57	8,229.82	9.625	47.00	90,773	80.49	18.47	
201	27	42.40	1,141.97	8,187.42	9.625	47.00	92,461	83.59	19.19	
200	28	42.42	1,184.39	8,145.00	9.625	47.00	94,149	86.70	19.90	Centralizer
199	29	42.00	1,226.39	8,103.00	9.625	47.00	95,821	89.77	20.60	
198	30	42.41	1,268.80	8,060.59	9.625	47.00	97,510	92.88	21.32	
197	31	42.44	1,311.24	8,018.15	9.625	47.00	99,199	95.98	22.03	
196	32	42.44	1,353.68	7,975.71	9.625	47.00	100,889	99.09	22.74	
195	33	42.42	1,396.10	7,933.29	9.625	47.00	102,577	102.19	23.45	Centralizer
194	34	42.42	1,438.52	7,890.87	9.625	47.00	104,266	105.30	24.17	
193	35	42.41	1,480.93	7,848.46	9.625	47.00	105,954	108.40	24.88	
192	36	42.40	1,523.33	7,806.06	9.625	47.00	107,642	111.51	25.59	
191	37	42.40	1,565.73	7,763.66	9.625	47.00	109,330	114.61	26.30	
190	38	42.41	1,608.14	7,721.25	9.625	47.00	111,018	117.72	27.02	Centralizer
189	39	42.43	1,650.57	7,678.82	9.625	47.00	112,708	120.82	27.73	
188	40	42.03	1,692.60	7,636.79	9.625	47.00	114,381	123.90	28.44	
187	41	42.40	1,735.00	7,594.39	9.625	47.00	116,069	127.00	29.15	
186	42	42.41	1,777.41	7,551.98	9.625	47.00	117,757	130.11	29.86	
185	43	42.40	1,819.81	7,509.58	9.625	47.00	119,445	133.21	30.57	Centralizer
184	44	42.43	1,862.24	7,467.15	9.625	47.00	121,134	136.32	31.29	
183	45	42.43	1,904.67	7,424.72	9.625	47.00	122,823	139.42	32.00	
182	46	42.42	1,947.09	7,382.30	9.625	47.00	124,512	142.53	32.71	
181	47	42.41	1,989.50	7,339.89	9.625	47.00	126,200	145.63	33.42	
180	48	42.36	2,031.86	7,297.53	9.625	47.00	127,886	148.73	34.14	Centralizer
179	49	42.41	2,074.27	7,255.12	9.625	47.00	129,575	151.84	34.85	
178	50	42.42	2,116.69	7,212.70	9.625	47.00	131,263	154.94	35.56	
177	51	42.41								out
176	52	42.41								out
175	53	42.43								out

Joint #	Run In Hole #	JOINT LENGTH (ft)	CUM. LENGTH (ft) *	DEPTH FROM KB TO TOP OF JT (ft)*	O.D. *	Wt. (lb/ft) *	Wt. Ind. READING (lbs) *	CAP. (BBI) *	DISPL. (BBI) *	COMMENTS:
174	54	42.14	2,158.83	7,170.56	9.625	40.00	132,691	158.14	36.16	Begin 40#
173	55	41.79	2,200.62	7,128.77	9.625	40.00	134,107	161.30	36.75	
172	56	42.14	2,242.76	7,086.63	9.625	40.00	135,535	164.50	37.35	
171	57	42.14	2,284.90	7,044.49	9.625	40.00	136,962	167.69	37.95	Centralizer
170	58	41.78	2,326.68	7,002.71	9.625	40.00	138,378	170.86	38.54	
169	59	42.14	2,368.82	6,960.57	9.625	40.00	139,805	174.05	39.14	
168	60	42.17	2,410.99	6,918.40	9.625	40.00	141,234	177.25	39.74	
167	61	42.15	2,453.14	6,876.25	9.625	40.00	142,662	180.44	40.34	
166	62	42.15	2,495.29	6,834.10	9.625	40.00	144,090	183.64	40.94	Centralizer
165	63	42.14	2,537.43	6,791.96	9.625	40.00	145,518	186.83	41.53	
164	64	42.14	2,579.57	6,749.82	9.625	40.00	146,946	190.03	42.13	
163	65	42.13	2,621.70	6,707.69	9.625	40.00	148,373	193.22	42.73	
162	66	42.16	2,663.86	6,665.53	9.625	40.00	149,801	196.42	43.33	
161	67	42.14	2,706.00	6,623.39	9.625	40.00	151,229	199.61	43.93	Centralizer
160	68	42.13	2,748.13	6,581.26	9.625	40.00	152,656	202.80	44.53	
159	69	42.13	2,790.26	6,539.13	9.625	40.00	154,084	206.00	45.13	
158	70	42.17	2,832.43	6,496.96	9.625	40.00	155,513	209.19	45.72	
157	71	42.16	2,874.59	6,454.80	9.625	40.00	156,941	212.39	46.32	
156	72	42.18	2,916.77	6,412.62	9.625	40.00	158,370	215.59	46.92	Centralizer
155	73	42.15	2,958.92	6,370.47	9.625	40.00	159,798	218.78	47.52	
154	74	42.14	3,001.06	6,328.33	9.625	40.00	161,226	221.98	48.12	
153	75	42.15	3,043.21	6,286.18	9.625	40.00	162,654	225.17	48.72	
152	76	42.12	3,085.33	6,244.06	9.625	40.00	164,081	228.36	49.32	
151	77	42.13	3,127.46	6,201.93	9.625	40.00	165,508	231.56	49.91	Centralizer
150	78	42.14	3,169.60	6,159.79	9.625	40.00	166,936	234.75	50.51	
149	79	42.14	3,211.74	6,117.65	9.625	40.00	168,364	237.95	51.11	
148	80	42.13	3,253.87	6,075.52	9.625	40.00	169,791	241.14	51.71	
147	81	42.13	3,296.00	6,033.39	9.625	40.00	171,218	244.33	52.31	
146	82	42.16	3,338.16	5,991.23	9.625	40.00	172,647	247.53	52.91	Centralizer
145	83	42.15	3,380.31	5,949.08	9.625	40.00	174,075	250.72	53.50	
144	84	42.13	3,422.44	5,906.95	9.625	40.00	175,502	253.92	54.10	
143	85	42.16	3,464.60	5,864.79	9.625	40.00	176,931	257.11	54.70	
142	86	42.13	3,506.73	5,822.66	9.625	40.00	178,358	260.31	55.30	
141	87	42.19	3,548.92	5,780.47	9.625	40.00	179,787	263.50	55.90	Centralizer
140	88	42.15	3,591.07	5,738.32	9.625	40.00	181,215	266.70	56.50	
139	89	42.14	3,633.21	5,696.18	9.625	40.00	182,643	269.89	57.09	
138	90	42.15	3,675.36	5,654.03	9.625	40.00	184,071	273.09	57.69	
137	91	42.14	3,717.50	5,611.89	9.625	40.00	185,499	276.28	58.29	
136	92	41.78	3,759.28	5,570.11	9.625	40.00	186,914	279.45	58.89	Centralizer
135	93	42.14	3,801.42	5,527.97	9.625	40.00	188,342	282.64	59.48	
134	94	42.15	3,843.57	5,485.82	9.625	40.00	189,770	285.84	60.08	
133	95	42.14	3,885.71	5,443.68	9.625	40.00	191,198	289.03	60.68	
132	96	41.78	3,927.49	5,401.90	9.625	40.00	192,613	292.20	61.27	
131	97	42.17	3,969.66	5,359.73	9.625	40.00	194,042	295.40	61.87	Centralizer
130	98	42.14	4,011.80	5,317.59	9.625	40.00	195,470	298.59	62.47	
129	99	42.16	4,053.96	5,275.43	9.625	40.00	196,898	301.79	63.07	
128	100	42.16	4,096.12	5,233.27	9.625	40.00	198,326	304.98	63.67	
127	101	42.12	4,138.24	5,191.15	9.625	40.00	199,753	308.18	64.27	
126	102	42.17								out
125	103	42.13	4,180.37	5,149.02	9.625	40.00	201,181	311.37	64.86	Centralizer
124	104	42.13	4,222.50	5,106.89	9.625	40.00	202,608	314.56	65.46	
123	105	42.13	4,264.63	5,064.76	9.625	40.00	204,036	317.76	66.06	
122	106	41.77	4,306.40	5,022.99	9.625	40.00	205,451	320.92	66.65	
121	107	42.20	4,348.60	4,980.79	9.625	40.00	206,880	324.12	67.25	
120	108	42.12	4,390.72	4,938.67	9.625	40.00	208,307	327.31	67.85	Centralizer
Pup		1.50	4,392.22	4,937.17	9.625	40.00	208,358	327.43	67.87	
ECP		16.95	4,409.17	4,920.22	9.625	40.00	208,933	328.71	68.11	
DV		2.60	4,411.77	4,917.62	9.625	40.00	209,021	328.91	68.15	
Pup		6.10	4,417.87	4,911.52	9.625	40.00	209,227	329.37	68.24	
119	109	42.13	4,460.00	4,869.39	9.625	40.00	209,735	330.51	68.45	
118	110	42.12	4,502.12	4,827.27	9.625	40.00	211,162	333.70	69.05	
117	111	42.14	4,544.26	4,785.13	9.625	40.00	212,590	336.89	69.65	
116	112	42.12	4,586.38	4,743.01	9.625	40.00	214,017	340.09	70.24	
115	113	42.11	4,628.49	4,700.90	9.625	40.00	215,443	343.28	70.84	Centralizer
114	114	42.13	4,670.62	4,658.77	9.625	40.00	216,871	346.47	71.44	
113	115	42.18	4,712.80	4,616.59	9.625	40.00	218,300	349.67	72.04	
112	116	42.14	4,754.94	4,574.45	9.625	40.00	219,727	352.86	72.64	
111	117	42.14	4,797.08	4,532.31	9.625	40.00	221,155	356.06	73.24	
110	118	42.14	4,839.22	4,490.17	9.625	40.00	222,583	359.25	73.83	Centralizer
109	119	42.14	4,881.36	4,448.03	9.625	40.00	224,010	362.45	74.43	
108	120	42.12	4,923.48	4,405.91	9.625	40.00	225,438	365.64	75.03	
107	121	42.13	4,965.61	4,363.78	9.625	40.00	226,865	368.83	75.63	
106	122	42.14	5,007.75	4,321.64	9.625	40.00	228,293	372.03	76.23	
105	123	42.14	5,049.89	4,279.50	9.625	40.00	229,720	375.22	76.83	Centralizer
104	124	42.17	5,092.06	4,237.33	9.625	40.00	231,149	378.42	77.43	
103	125	42.14	5,134.20	4,195.19	9.625	40.00	232,577	381.61	78.02	
102	126	42.14	5,176.34	4,153.05	9.625	40.00	234,004	384.81	78.62	
101	127	42.14	5,218.48	4,110.91	9.625	40.00	235,432	388.00	79.22	
100	128	42.16	5,260.64	4,068.75	9.625	40.00	236,860	391.20	79.82	Centralizer
99	129	41.77	5,302.41	4,026.98	9.625	40.00	238,276	394.36	80.41	
98	130	42.13	5,344.54	3,984.85	9.625	40.00	239,703	397.55	81.01	
97	131	42.14	5,386.68	3,942.71	9.625	40.00	241,131	400.75	81.61	
96	132	41.79	5,428.47	3,900.92	9.625	40.00	242,547	403.92	82.20	
95	133	42.17	5,470.64	3,858.75	9.625	40.00	243,975	407.11	82.80	Centralizer
94	134	42.13	5,512.77	3,816.62	9.625	40.00	245,403	410.31	83.40	
93	135	42.15	5,554.92	3,774.47	9.625	40.00	246,831	413.50	84.00	
92	136	42.13	5,597.05	3,732.34	9.625	40.00	248,258	416.70	84.60	
91	137	42.15	5,639.20	3,690.19	9.625	40.00	249,686	419.89	85.19	
90	138	42.13	5,681.33	3,648.06	9.625	40.00	251,113	423.08	85.79	Centralizer
89	139	42.15	5,723.48	3,605.91	9.625	40.00	252,542	426.28	86.39	
88	140	42.15	5,765.63	3,563.76	9.625	40.00	253,970	429.47	86.99	
87	141	42.14	5,807.77	3,521.62	9.625	40.00	255,397	432.67	87.59	

Joint #	Run In Hole #	JOINT LENGTH (ft)	CUM. LENGTH (ft) *	DEPTH FROM KB TO TOP OF JT (ft)*	O.D. *	Wt. (lb/ft) *	Wt. Ind. READING (lbs) *	CAP. (BBI) *	DISPL. (BBI) *	COMMENTS:
86	142	42.14	5,849.91	3,479.48	9.625	40.00	256,825	435.86	88.19	
85	143	42.14	5,892.05	3,437.34	9.625	40.00	258,253	439.06	88.78	Centralizer
84	144	42.14	5,934.19	3,395.20	9.625	40.00	259,680	442.25	89.38	
83	145	42.13	5,976.32	3,353.07	9.625	40.00	261,108	445.44	89.98	
82	146	42.14	6,018.46	3,310.93	9.625	40.00	262,535	448.64	90.58	
81	147	42.13	6,060.59	3,268.80	9.625	40.00	263,963	451.83	91.18	
80	148	42.14	6,102.73	3,226.66	9.625	40.00	265,391	455.03	91.78	Centralizer
79	149	42.15	6,144.88	3,184.51	9.625	40.00	266,819	458.22	92.38	
78	150	42.15	6,187.03	3,142.36	9.625	40.00	268,247	461.42	92.97	
77	151	42.15	6,229.18	3,100.21	9.625	40.00	269,675	464.61	93.57	
76	152	42.14	6,271.32	3,058.07	9.625	40.00	271,102	467.80	94.17	
75	153	42.13	6,313.45	3,015.94	9.625	40.00	272,530	471.00	94.77	Centralizer
74	154	42.16	6,355.61	2,973.78	9.625	40.00	273,958	474.19	95.37	
73	155	42.17	6,397.78	2,931.61	9.625	40.00	275,387	477.39	95.97	
72	156	42.14	6,439.92	2,889.47	9.625	40.00	276,815	480.58	96.56	
71	157	42.14	6,482.06	2,847.33	9.625	40.00	278,242	483.78	97.16	
70	158	42.14	6,524.20	2,805.19	9.625	40.00	279,670	486.97	97.76	Centralizer
69	159	42.15	6,566.35	2,763.04	9.625	40.00	281,098	490.17	98.36	
68	160	42.13	6,608.48	2,720.91	9.625	40.00	282,525	493.36	98.96	
67	161	42.15	6,650.63	2,678.76	9.625	40.00	283,953	496.56	99.56	
66	162	42.16	6,692.79	2,636.60	9.625	40.00	285,382	499.75	100.16	
65	163	42.16	6,734.95	2,594.44	9.625	40.00	286,810	502.95	100.75	Centralizer
64	164	42.14	6,777.09	2,552.30	9.625	40.00	288,238	506.14	101.35	
63	165	42.15	6,819.24	2,510.15	9.625	40.00	289,666	509.34	101.95	
62	166	42.14	6,861.38	2,468.01	9.625	40.00	291,094	512.53	102.55	
61	167	42.16	6,903.54	2,425.85	9.625	40.00	292,522	515.73	103.15	
60	168	42.13	6,945.67	2,383.72	9.625	40.00	293,949	518.92	103.75	Centralizer
59	169	42.15	6,987.82	2,341.57	9.625	40.00	295,377	522.12	104.34	
58	170	42.13	7,029.95	2,299.44	9.625	40.00	296,805	525.31	104.94	
57	171	42.13	7,072.08	2,257.31	9.625	40.00	298,232	528.50	105.54	
56	172	42.15	7,114.23	2,215.16	9.625	40.00	299,660	531.70	106.14	
55	173	42.16	7,156.39	2,173.00	9.625	40.00	301,089	534.89	106.74	Centralizer
54	174	42.14	7,198.53	2,130.86	9.625	40.00	302,516	538.09	107.34	
53	175	42.14	7,240.67	2,088.72	9.625	40.00	303,944	541.28	107.94	
52	176	42.14	7,282.81	2,046.58	9.625	40.00	305,372	544.48	108.53	
51	177	42.15	7,324.96	2,004.43	9.625	40.00	306,800	547.67	109.13	
50	178	42.15	7,367.11	1,962.28	9.625	40.00	308,228	550.87	109.73	Centralizer
49	179	42.13	7,409.24	1,920.15	9.625	40.00	309,655	554.06	110.33	
48	180	41.78	7,451.02	1,878.37	9.625	40.00	311,071	557.23	110.92	
47	181	42.13	7,493.15	1,836.24	9.625	40.00	312,498	560.42	111.52	
46	182	42.20	7,535.35	1,794.04	9.625	40.00	313,928	563.62	112.12	
45	183	41.79	7,577.14	1,752.25	9.625	40.00	315,344	566.79	112.71	Centralizer
44	184	42.17	7,619.31	1,710.08	9.625	40.00	316,772	569.98	113.31	
43	185	42.14	7,661.45	1,667.94	9.625	40.00	318,200	573.18	113.91	
42	186	42.16	7,703.61	1,625.78	9.625	40.00	319,628	576.37	114.51	
41	187	42.15	7,745.76	1,583.63	9.625	40.00	321,056	579.57	115.11	
40	188	41.43	7,787.19	1,542.20	9.625	40.00	322,460	582.71	115.70	Centralizer
39	189	42.14	7,829.33	1,500.06	9.625	40.00	323,888	585.90	116.29	
38	190	42.15	7,871.48	1,457.91	9.625	40.00	325,316	589.10	116.89	
37	191	42.15	7,913.63	1,415.76	9.625	40.00	326,744	592.29	117.49	
36	192	42.15	7,955.78	1,373.61	9.625	40.00	328,172	595.49	118.09	
35	193	42.15	7,997.93	1,331.46	9.625	40.00	329,600	598.68	118.69	Centralizer
34	194	42.16	8,040.09	1,289.30	9.625	40.00	331,028	601.88	119.29	
33	195	42.15	8,082.24	1,247.15	9.625	40.00	332,456	605.07	119.89	
32	196	42.15	8,124.39	1,205.00	9.625	40.00	333,884	608.27	120.48	
31	197	42.15	8,166.54	1,162.85	9.625	40.00	335,312	611.46	121.08	
30	198	41.77	8,208.31	1,121.08	9.625	40.00	336,728	614.63	121.68	Centralizer
29	199	42.15	8,250.46	1,078.93	9.625	40.00	338,156	617.82	122.27	
28	200	42.14	8,292.60	1,036.79	9.625	40.00	339,583	621.02	122.87	
27	201	42.14	8,334.74	994.65	9.625	40.00	341,011	624.21	123.47	
26	202	42.16	8,376.90	952.49	9.625	40.00	342,439	627.41	124.07	
25	203	42.15	8,419.05	910.34	9.625	40.00	343,867	630.60	124.67	Centralizer
24	204	42.16	8,461.21	868.18	9.625	40.00	345,296	633.80	125.27	
23	205	42.12	8,503.33	826.06	9.625	40.00	346,723	636.99	125.87	
22	206	42.15	8,545.48	783.91	9.625	40.00	348,151	640.19	126.46	
21	207	42.17	8,587.65	741.74	9.625	40.00	349,580	643.38	127.06	
20	208	42.14	8,629.79	699.60	9.625	40.00	351,007	646.58	127.66	Centralizer
19	209	42.16	8,671.95	657.44	9.625	40.00	352,436	649.77	128.26	
18	210	42.14	8,714.09	615.30	9.625	40.00	353,863	652.97	128.86	
17	211	42.15	8,756.24	573.15	9.625	40.00	355,291	656.16	129.46	
16	212	42.14	8,798.38	531.01	9.625	40.00	356,719	659.36	130.05	
15	213	42.16	8,840.54	488.85	9.625	40.00	358,148	662.55	130.65	Centralizer
14	214	42.15	8,882.69	446.70	9.625	40.00	359,576	665.75	131.25	
13	215	42.15	8,924.84	404.55	9.625	40.00	361,004	668.94	131.85	
12	216	42.15	8,966.99	362.40	9.625	40.00	362,432	672.14	132.45	
11	217	42.14	9,009.13	320.26	9.625	40.00	363,859	675.33	133.05	
10	218	42.15	9,051.28	278.11	9.625	40.00	365,287	678.53	133.65	Centralizer
9	219	42.19	9,093.47	235.92	9.625	40.00	366,717	681.72	134.25	
8	220	42.14	9,135.61	193.78	9.625	40.00	368,144	684.92	134.84	
7	221	42.14	9,177.75	151.64	9.625	40.00	369,572	688.11	135.44	
6	222	42.14	9,219.89	109.50	9.625	40.00	371,000	691.31	136.04	
5	223	42.15	9,262.04	67.35	9.625	40.00	372,428	694.50	136.64	
4	224	42.16								out
3	225	42.20								out
2	226	42.16								out
1	227	39.07	9,301.11	28.28	9.625	47.00	373,983	697.36	137.30	
Mandrel		1.13	9,302.24	27.15	9.625	40.00	374,022	697.45	137.31	
LJ		31.65	9,333.89	(4.50)	9.625	40.00	375,094	699.85	137.76	

Joint #	Run In Hole #	JOINT LENGTH (ft)	CUM. LENGTH (ft) *	DEPTH FROM KB TO TOP OF JT (ft)*	O.D. *	Wt. (lb/ft) *	Wt. Ind. READING (lbs) *	CAP. (Bbl) *	DISPL. (Bbl) *	COMMENTS:

2/8/2021

Caza Petroleum, Inc. Comanche 25-36 Fed State 4H Citadel 4 Job Log

Caza Petroleum, Inc.

Comanche 25-36 Fed State 4H

Rig: Citadel 4



DV Intermediate

T-27685

County: Lea

Cementing Job Log

Date	Time	Description	Rate (BPM)	Volume (BBL)	Pressure (PSI)	Details of Operation and Procedure
02/07/2021	01:00	Rig Circulate Hole				Went to the rig floor and swapped lines over to the rig and they circulated 1.5 bottoms up
02/07/2021	06:00	Called Out				Crew was called out @6:00
02/07/2021	07:00	Load Up For Job				Everyone was at the yard at 7:00 to load up for job and check equipment and make sure we had all chemicals and equipment for the job
02/07/2021	07:45	Conduct Meetings				Had a pre journey meeting to discuss the route, who was going to lead the convoy and where to stop at
02/07/2021	08:00	Depart For Job				Crew left for job and cementer lead the convoy
02/07/2021	12:15	Arrived on Location				All equipment made it to location safely and together
02/07/2021	12:20	Rigs Progress at Arrival				When we arrived to location rig was still running casing in the hole
02/07/2021	12:30	Conduct Meetings				We had a pre rig up meeting to discuss how we were going to rig up and the hazards on location
02/07/2021	12:35	Rig Equipment				We rigged up all the equipment and tested all the water hoses and air hoses before the job
02/07/2021	14:00	Stand By				Crew is on standby waiting on the rig to get ready for us
02/07/2021	17:00	Casing On Bottom				Rig got casing on bottom at 5:00
02/07/2021	17:10	Rig Circulate Hole				Rig circulate with top drive untill they got the casing crew rigged down
02/07/2021	18:30	Install Cement Head				We put the cement head on for them to finish circulating
02/07/2021	19:30	Conduct Meetings				Had a safety meeting with the rig crew to discuss the procedure of the job and the hazards during the job
02/07/2021	19:45	Fill Lines	2	5	70	Pumped 5 bbls of fresh water to fill lines
02/07/2021	19:50	Pressure Test	1	1	5000	Tested lines to 5000 psi. , pressure test was successful
02/07/2021	19:55	Start Spacer	4	40	300	Pumped 40 bbls of fresh water spacer ahead
02/07/2021	20:05	Start Cement	8	436	940	Pumped 436 bbls of lead cement @ 11.5 ppg
02/07/2021	21:10	Start Cement	4	63	580	Pumped 63 bbls of tail cement @ 15.6 ppg
02/07/2021	21:40	Release Plug				Dropped dart
02/07/2021	21:42	Start Displacement	9	350	9	Pumped dart down with 350 bbls of fresh water, we pumped 350 bbls of displacement at 9 bpm
02/07/2021	22:15	Pressure Test	1	1	5000	Tested lines to 5000 psi. test was successful
02/07/2021	22:30	Decrease Rate	3	350	170	At 350 bbls gone we slowed our rate to 3 bpm to pass through the DV tool
02/07/2021	22:40	Increase Rate	7	380	1061	Pick our rate back up to 7 bpm to finish out the total of 699 bbls of displacement
02/07/2021	23:50	Decrease Rate	4	680	1440	At 680 bbls we slowed our rate back down to 4 bpm to bump the plug 500 psi. over
02/07/2021	23:55	Bump Plug	4	699	1920	Bumped plug at calculated displacement, pressure went from 1445psi. to 1920 psi.
02/07/2021	23:57	Pressure Up	2	1.5	2700	Pumped .5 a bbls at 2 bpm to inflate the packer, pressure went from 1920 psi. to 21 00 psi., then pumped another .5 of a bbls at 2 bpm to 2300 psi., then .25 of a bbl at 2 bpm to 2500 psi., then .25 of a bbl to 2700 psi., after that we watched it for 10 min.
02/08/2021	00:07	Check Floats				Bled off and checked floats, we got 3.5 bbls back when bled off floats held
02/08/2021	00:19	Release Plug				Dropped bomb and let free fall for 30 min., then we pressured up on it
02/08/2021	00:49	Pressure Up	2	2	581	Pressured up on the well @2bpm and the pressure went to 581



Caza Petroleum, Inc. Comanche 25-36 Fed State 4H Citadel 4 Job Log

						and broke over
02/08/2021	02:15	Conduct Meetings				Had a pre job safety meeting with the rig crew about the second stage procedure
02/08/2021	02:25	Other				Swapped the lines back to our standpipe, to get ready to do the second stage of the job
02/08/2021	02:34	Fill Lines	4	5	300	Pumped 5 bbls of fresh water to fill lines
02/08/2021	02:44	Start Spacer	4	40	287	Pumped 40 bbls of fresh water spacer ahead
02/08/2021	02:50	Start Cement	7	584	600	Pumped 584 bbls of lead cement @11.5 ppg
02/08/2021	04:32	Start Cement	6	36	700	Pumped 36 bbls of tail cement at 14.8 ppg
02/08/2021	04:50	Release Plug				Drop competition top plug
02/08/2021	04:53	Start Displacement	7	372	1140	Kick plug out with freshwater
02/08/2021	05:50	Decrease Rate	4	372	976	Slow rate down to 4 bpm on the last 30 to bump plug 1000 psi. over, we got 30 bbls of cement back to surface
02/08/2021	05:57	Bump Plug	4	372	2025	Bumped plug at calculated displacement, pressure went from 976 psi. to 2025 psi.
02/08/2021	06:02	Check Floats				Bleed pressure off and got 3.5 bbls back, floats held
02/08/2021	06:10	Conduct Meetings				Had a pre rig down safety meeting
02/08/2021	07:15	Job Complete				equipment is rigged down and iron back on truck

Cement Heights and Tops			
Slurry Type	Cement Height	Cement Top	
Spacer			
Lead CMT		4900	
Tail CMT		8803	
Spacer - Stage 2			
Lead CMT - Stage 2		0	
Tail CMT - Stage 2		4800	
Crew Members			
	Derrick Richard		
	Brian Gentry		
	Gerardo Olivera		
	Daniel Juarez-Silva		
	Russell Meyers		
Casing Information			
	Previous Casing	Hole & Casing Info	
Hole Size 1		12.25	
MD:		9307	
TVD:		9300	
Casing Size	13.375	9.625	
Casing Grade		L-80	
Casing Length	1000	9334	
Casing Weight	54.50	40.00	
Casing ID		8.835	
DV Tool			
Shoe Joint		90	
Burst Pressure	2472		
Cement Returns			
Mud Info		Water Info	
Type	WBM	PH	3
Weight	9	Chlrd	7
		Temp	70

Spacer					
	PPG		YLD		H2O
Lead CMT					
11.5	PPG	2.29	YLD	12.64	H2O
			1070	Sacks	50/50 Poz C
			5	bwow	Sodium Chloride (Salt)
			4	%	Bentonite Gel
			0.2	%	CPT-19
			2	%	CPT-45
			0.4	%	CPT-503P
			5	%	Gypsum
			0.4	%	CPT-20A
			0.4	%	Citric Acid
Tail CMT					
15.6	PPG	1.18	YLD	5.22	H2O
			300	Sacks	Class H Cement
			0.1	%	CPT-23
			0.1	%	CPT-51A
Spacer - Stage 2					
	PPG		YLD		H2O
Lead CMT - Stage 2					
11.5	PPG	2.26	YLD	12.52	H2O
			1450	Sacks	50/50 Poz C
			5	bwow	Sodium Chloride (Salt)
			4	%	Bentonite Gel
			0.1	%	CPT-19
			1	%	CPT-45
			0.4	%	CPT-503P
			5	%	Gypsum
Tail CMT - Stage 2					
14.8	PPG	1.33	YLD	6.32	H2O
			150	Sacks	Class C Cement
			0.15	%	CPT-24

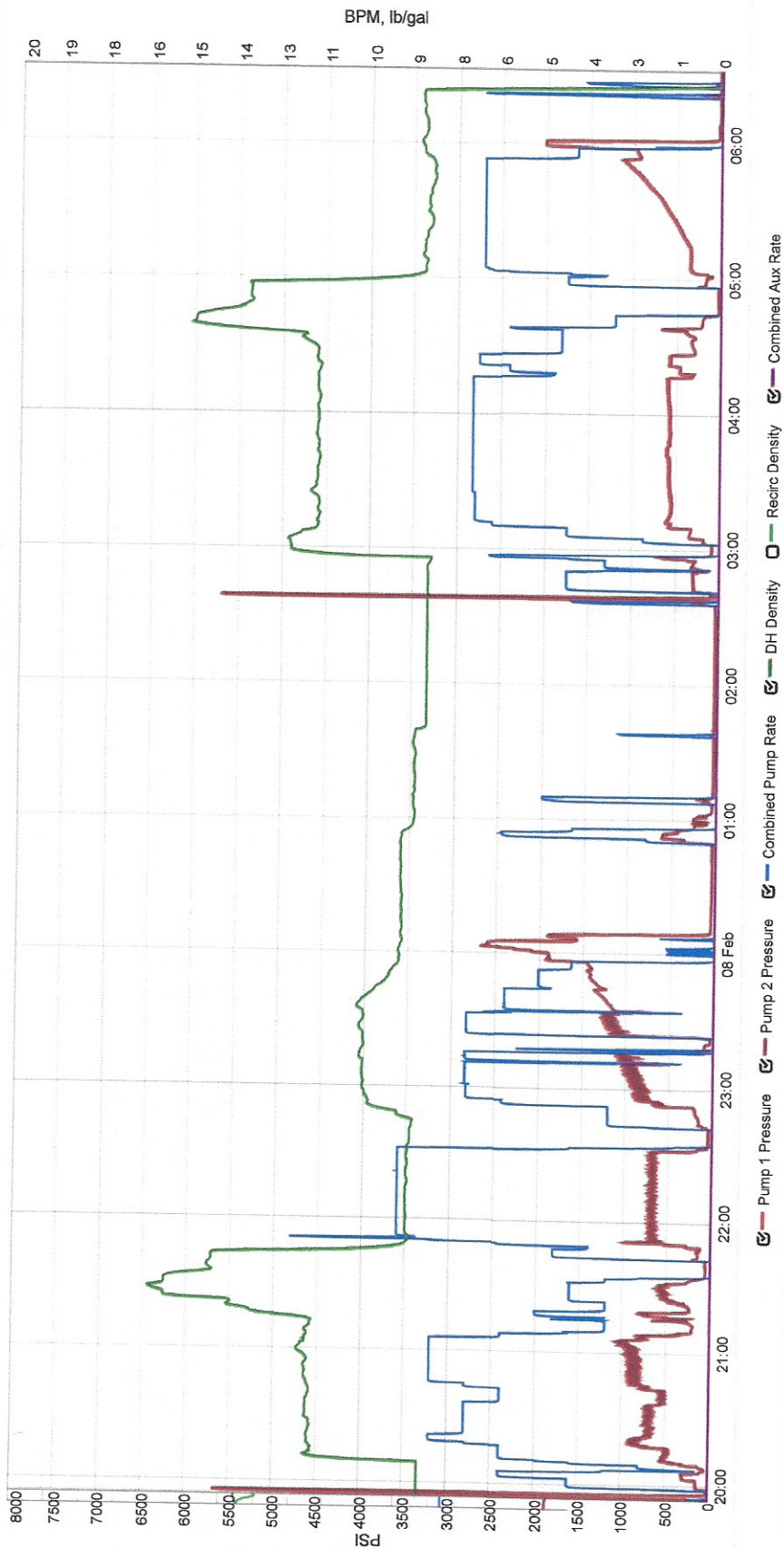
2/8/2021

Crest Pumping Technologies

Caza Petroleum, Inc.

4H

T-27685



Events

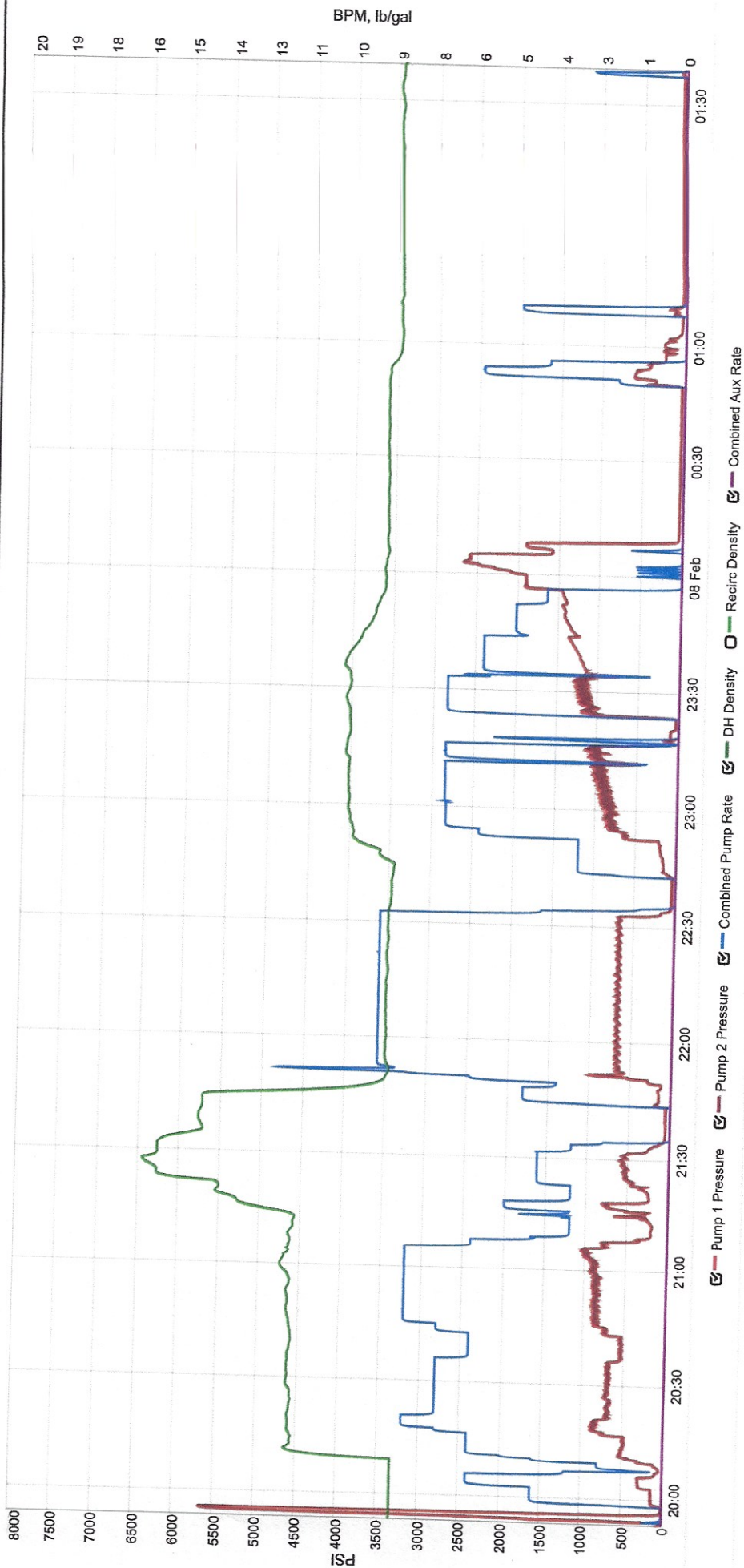
Date	Flag	Total	Pump 1 Pressure	Pump 2 Pressure	Pump Combined Rate	Description
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Crest Pumping Technologies

Caza Petroleum, Inc.

4H

T-27685



Events

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 18894

CONDITIONS OF APPROVAL

Operator: CAZA OPERATING, LLC Suite 1550 Midland, TX79701	200 N Loraine St	OGRID: 249099	Action Number: 18894	Action Type: C-103N
OCD Reviewer plmartinez	Condition None			