

Well Name: Comanche 25-36 Fed State Com	Well Location: T26S / R35E / SEC 25 / NWNE / 32.0204996 / -103.3172024	County or Parish/State: LEA / NM
Well Number: 2Y	Type of Well: OIL WELL	Allottee or Tribe Name:
Lease Number: NMNM125402	Unit or CA Name:	Unit or CA Number:
US Well Number: 300254836800X1	Well Status: Drilling Well	Operator: CAZA OPERATING LLC

Subsequent Report

Type of Submission: Subsequent Report	Type of Action: Drilling Operations
Date Sundry Submitted: 01/31/2021	Time Sundry Submitted: 05:36
Date Operation Actually Began: 01/27/2021	
Actual Procedure: 1/27/2021 - Drill 12.25" hole to 9325'MD. Run 9.625" HCL80 40# BTC casing to 7132'MD and 9.625" HCL80 47# BTC from 7132'MD - 9315'MD. ECP set at 4906'MD and DVT set at 4904'MD. Cement Stage 1 Lead 1070sx 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 300sx 15.6ppg Class H + 0.1% CPT-23 + 0.1% CPT-51A. Stage 2 Lead 1200sx 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 20bbls (48sx) to surface).	

SR Attachments

PActual Procedure

Comanche_25_36_State_Fed_Com_2Y___Intermediate_Cement_Report_20210131053615.pdf

Comanche_25_36_State_Fed_Com_2Y___Intermediate_Casing_Tally_Final_as_ran_20210131053530.pdf

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US Well Number: 300254836800X1	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: JAN 31, 2021 05:36 AM
Name: CAZA OPERATING LLC	
Title: Engineer	
Street Address: 200 NORTH LORRAINE SUITE 1550	
City: MIDLAND	State: TX
Phone: (432) 638-8475	
Email address: NOT ENTERED	

Field Representative

Representative Name: STEVE MORRIS		
Street Address: 200 N. LORRAINE ST 1550		
City: MIDLAND	State: TX	Zip: 79701
Phone: (985)415-9729		
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: 02/03/2021
Signature: Jonathon Shepard	

Rig: Citadel #4

Well: Comanche 25-36 State Fed Con

County: Lea

Prospect: Wolfcamp Z

Date: 1/27/2021



	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.	56	177
Total Jts ran in hole	52	168
Total Jts remain out	4	9
Marker Jts on Loc.		2
Marker Jts ran in hole		2
Marker Jts remain out		0
Damaged Jts on Loc.	0	0

T.D. (ft)	9,325.00 (From KB)
Shoe Depth (ft)	9,314.83
Top of FC (ft)	9,260.57

XO Info:	
OD	
ID	
Length	
Top Depth	

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

Btm Csg Length	2,156.18 *
Top Csg Length	6,987.23 *

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)	4.25 *
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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. (BBL) *	DISPL. (BBL) *	COMMENTS:
Shoe		2.44	2.44	9,312.39	9.625	47.00	47,097	0.18	0.04	Shoe
233	1	42.42	44.86	9,269.97	9.625	47.00	48,786	3.28	0.75	Centralizer
FC		1.57	46.43	9,268.40	9.625	47.00	48,848	3.40	0.78	Float Collar
232	2	41.61	88.04	9,226.79	9.625	47.00	50,505	6.44	1.48	Centralizer
231	3	41.59	129.63	9,185.20	9.625	47.00	52,160	9.49	2.18	Centralizer
230	4	41.68	171.31	9,143.52	9.625	47.00	53,820	12.54	2.88	
229	5	41.07	212.38	9,102.45	9.625	47.00	55,455	15.55	3.57	
228	6	42.41	254.79	9,060.04	9.625	47.00	57,143	18.65	4.28	
227	7	41.28	296.07	9,018.76	9.625	47.00	58,786	21.67	4.97	
226	8	41.60	337.67	8,977.16	9.625	47.00	60,442	24.72	5.67	Centralizer
225	9	42.15	379.82	8,935.01	9.625	47.00	62,120	27.80	6.38	
224	10	42.43	422.25	8,892.58	9.625	47.00	63,809	30.91	7.09	
223	11	42.41	464.66	8,850.17	9.625	47.00	65,498	34.01	7.81	
222	12	39.96	504.62	8,810.21	9.625	47.00	67,088	36.94	8.48	
221	13	41.42	546.04	8,768.79	9.625	47.00	68,737	39.97	9.17	Centralizer
220	14	41.62	587.66	8,727.17	9.625	47.00	70,394	43.02	9.87	
219	15	42.37	630.03	8,684.80	9.625	47.00	72,081	46.12	10.58	
218	16	39.47	669.50	8,645.33	9.625	47.00	73,652	49.01	11.25	
217	17	38.42	707.92	8,606.91	9.625	47.00	75,182	51.82	11.89	
216	18	40.87	748.79	8,566.04	9.625	47.00	76,809	54.81	12.58	Centralizer
215	19	41.63	790.42	8,524.41	9.625	47.00	78,466	57.86	13.28	
214	20	41.72	832.14	8,482.69	9.625	47.00	80,127	60.91	13.98	
213	21	41.40	873.54	8,441.29	9.625	47.00	81,775	63.94	14.68	
212	22	42.35	915.89	8,398.94	9.625	47.00	83,461	67.04	15.39	
211	23	42.41	958.30	8,356.53	9.625	47.00	85,149	70.15	16.10	Centralizer
210	24	42.44	1,000.74	8,314.09	9.625	47.00	86,838	73.25	16.81	
209	25	42.22	1,042.96	8,271.87	9.625	47.00	88,519	76.34	17.52	
208	26	42.41	1,085.37	8,229.46	9.625	47.00	90,207	79.45	18.23	
207	27	42.41	1,127.78	8,187.05	9.625	47.00	91,896	82.55	18.95	
206	28	42.40	1,170.18	8,144.65	9.625	47.00	93,584	85.66	19.66	Centralizer
205	29	42.39	1,212.57	8,102.26	9.625	47.00	95,271	88.76	20.37	
204	30	42.01	1,254.58	8,060.25	9.625	47.00	96,944	91.84	21.08	
203	31	42.11	1,296.69	8,018.14	9.625	47.00	98,620	94.92	21.78	
202	32	42.39	1,339.08	7,975.75	9.625	47.00	100,307	98.02	22.50	
201	33	42.41	1,381.49	7,933.34	9.625	47.00	101,996	101.13	23.21	Centralizer
200	34	42.41	1,423.90	7,890.93	9.625	47.00	103,684	104.23	23.92	
199	35	42.42	1,466.32	7,848.51	9.625	47.00	105,373	107.33	24.63	
198	36	42.40	1,508.72	7,806.11	9.625	47.00	107,061	110.44	25.35	
197	37	42.43	1,551.15	7,763.68	9.625	47.00	108,750	113.54	26.06	
196	38	42.40	1,593.55	7,721.28	9.625	47.00	110,438	116.65	26.77	Centralizer
195	39	41.53	1,635.08	7,679.75	9.625	47.00	112,091	119.69	27.47	
194	40	41.59	1,676.67	7,638.16	9.625	47.00	113,747	122.73	28.17	
193	41	41.71	1,718.38	7,596.45	9.625	47.00	115,407	125.79	28.87	
192	42	42.41	1,760.79	7,554.04	9.625	47.00	117,095	128.89	29.58	
191	43	42.40	1,803.19	7,511.64	9.625	47.00	118,783	131.99	30.29	Centralizer
190	44	42.41	1,845.60	7,469.23	9.625	47.00	120,471	135.10	31.01	
189	45	42.41	1,888.01	7,426.82	9.625	47.00	122,160	138.20	31.72	
188	46	42.38	1,930.39	7,384.44	9.625	47.00	123,847	141.30	32.43	
187	47	41.56	1,971.95	7,342.88	9.625	47.00	125,501	144.35	33.13	
186	48	42.03	2,013.98	7,300.85	9.625	47.00	127,175	147.42	33.83	Centralizer
185	49	42.41	2,056.39	7,258.44	9.625	47.00	128,863	150.53	34.55	
184	50	42.39	2,098.78	7,216.05	9.625	47.00	130,550	153.63	35.26	
183	51	41.62	2,140.40	7,174.43	9.625	47.00	132,207	156.68	35.96	
182	52	39.05								out
181	53	42.40								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:
180	54	41.24								out
179	55	40.97								out
178	56	42.11	2,182.51	7,132.32	9.625	40.00	133,634	159.87	36.56	40#
177	57	42.14	2,224.65	7,090.18	9.625	40.00	135,062	163.06	37.16	Centralizer
176	58	42.15	2,266.80	7,048.03	9.625	40.00	136,490	166.26	37.75	
175	59	42.13	2,308.93	7,005.90	9.625	40.00	137,917	169.45	38.35	
174	60	42.11	2,351.04	6,963.79	9.625	40.00	139,344	172.64	38.95	
173	61	42.18	2,393.22	6,921.61	9.625	40.00	140,773	175.84	39.55	
172	62	42.13	2,435.35	6,879.48	9.625	40.00	142,200	179.03	40.15	Centralizer
171	63	42.11	2,477.46	6,837.37	9.625	40.00	143,627	182.23	40.74	
170	64	42.12	2,519.58	6,795.25	9.625	40.00	145,054	185.42	41.34	
169	65	42.11	2,561.69	6,753.14	9.625	40.00	146,480	188.61	41.94	
168	66	42.12	2,603.81	6,711.02	9.625	40.00	147,908	191.80	42.54	
167	67	41.79	2,645.60	6,669.23	9.625	40.00	149,323	194.97	43.13	Centralizer
166	68	42.13	2,687.73	6,627.10	9.625	40.00	150,751	198.16	43.73	
165	69	42.14	2,729.87	6,584.96	9.625	40.00	152,178	201.36	44.33	
164	70	41.75	2,771.62	6,543.21	9.625	40.00	153,593	204.52	44.92	
163	71	42.13	2,813.75	6,501.08	9.625	40.00	155,020	207.72	45.52	
162	72	42.12	2,855.87	6,458.96	9.625	40.00	156,447	210.91	46.12	Centralizer
161	73	42.12	2,897.99	6,416.84	9.625	40.00	157,874	214.10	46.72	
160	74	42.14	2,940.13	6,374.70	9.625	40.00	159,302	217.30	47.31	
159	75	42.13	2,982.26	6,332.57	9.625	40.00	160,729	220.49	47.91	
158	76	42.12	3,024.38	6,290.45	9.625	40.00	162,156	223.68	48.51	
157	77	41.76	3,066.14	6,248.69	9.625	40.00	163,571	226.85	49.10	Centralizer
156	78	42.13	3,108.27	6,206.56	9.625	40.00	164,999	230.04	49.70	
155	79	42.12	3,150.39	6,164.44	9.625	40.00	166,426	233.23	50.30	
154	80	41.76	3,192.15	6,122.68	9.625	40.00	167,840	236.40	50.89	
153	81	41.81	3,233.96	6,080.87	9.625	40.00	169,257	239.57	51.49	
152	82	42.12	3,276.08	6,038.75	9.625	40.00	170,684	242.76	52.09	Centralizer
151	83	42.14	3,318.22	5,996.61	9.625	40.00	172,112	245.96	52.68	
150	84	42.12	3,360.34	5,954.49	9.625	40.00	173,539	249.15	53.28	
149	85	42.14	3,402.48	5,912.35	9.625	40.00	174,966	252.34	53.88	
148	86	41.78	3,444.26	5,870.57	9.625	40.00	176,382	255.51	54.47	
147	87	42.11	3,486.37	5,828.46	9.625	40.00	177,809	258.70	55.07	Centralizer
146	88	42.12	3,528.49	5,786.34	9.625	40.00	179,236	261.89	55.67	
145	89	42.13	3,570.62	5,744.21	9.625	40.00	180,663	265.09	56.27	
144	90	42.16	3,612.78	5,702.05	9.625	40.00	182,091	268.28	56.87	
143	91	42.19	3,654.97	5,659.86	9.625	40.00	183,521	271.48	57.47	
142	92	42.20	3,697.17	5,617.66	9.625	40.00	184,951	274.68	58.06	Centralizer
141	93	42.19	3,739.36	5,575.47	9.625	40.00	186,380	277.88	58.66	
140	94	42.18	3,781.54	5,533.29	9.625	40.00	187,809	281.08	59.26	
139	95	42.21	3,823.75	5,491.08	9.625	40.00	189,239	284.28	59.86	
138	96	42.18	3,865.93	5,448.90	9.625	40.00	190,668	287.47	60.46	
137	97	41.19	3,907.12	5,407.71	9.625	40.00	192,064	290.59	61.05	Centralizer
136	98	42.20	3,949.32	5,365.51	9.625	40.00	193,493	293.79	61.65	
135	99	42.25	3,991.57	5,323.26	9.625	40.00	194,925	297.00	62.25	
134	100	42.20	4,033.77	5,281.06	9.625	40.00	196,355	300.19	62.84	
133	101	41.74	4,075.51	5,239.32	9.625	40.00	197,769	303.36	63.44	
132	102	42.22	4,117.73	5,197.10	9.625	40.00	199,199	306.56	64.04	Centralizer
131	103	42.20	4,159.93	5,154.90	9.625	40.00	200,629	309.76	64.64	
130	104	42.20	4,202.13	5,112.70	9.625	40.00	202,059	312.96	65.24	
129	105	41.82	4,243.95	5,070.88	9.625	40.00	203,475	316.13	65.83	
128	106	42.21	4,286.16	5,028.67	9.625	40.00	204,906	319.33	66.43	
127	107	42.18	4,328.34	4,986.49	9.625	40.00	206,335	322.52	67.03	Centralizer
126	108	42.19	4,370.53	4,944.30	9.625	40.00	207,764	325.72	67.63	
234	234	9.21	4,379.74	4,935.09	9.625	40.00	212,365	336.01	69.55	Marker
235	235	10.01	4,389.75	4,925.08	9.625	40.00	212,704	336.77	69.70	Marker
Pup		1.17	4,390.92	4,923.91	9.625	40.00	212,743	336.86	69.71	
ECP		16.95	4,407.87	4,906.96	9.625	40.00	212,627	336.60	69.66	
DV		2.59	4,410.46	4,904.37	9.625	40.00	212,831	337.06	69.75	
Pup		6.93	4,417.39	4,897.44	9.625	40.00	212,862	337.13	69.76	
125	109	42.19	4,459.58	4,855.25	9.625	40.00	209,193	328.92	68.23	
124	110	42.19	4,501.77	4,813.06	9.625	40.00	210,623	332.12	68.82	Centralizer
123	111	42.20	4,543.97	4,770.86	9.625	40.00	212,053	335.32	69.42	
122	112	42.20	4,586.17	4,728.66	9.625	40.00	213,482	338.51	70.02	
121	113	42.20	4,628.37	4,686.46	9.625	40.00	214,912	341.71	70.62	
120	114	42.20	4,670.57	4,644.26	9.625	40.00	216,342	344.91	71.22	
119	115	42.19	4,712.76	4,602.07	9.625	40.00	217,771	348.11	71.82	Centralizer
118	116	42.19	4,754.95	4,559.88	9.625	40.00	219,201	351.31	72.42	
117	117	42.20	4,797.15	4,517.68	9.625	40.00	220,630	354.51	73.02	
116	118	42.17	4,839.32	4,475.51	9.625	40.00	222,059	357.70	73.62	
115	119	42.13	4,881.45	4,433.38	9.625	40.00	223,486	360.90	74.22	
114	120	42.13	4,923.58	4,391.25	9.625	40.00	224,914	364.09	74.81	Centralizer
113	121	42.15	4,965.73	4,349.10	9.625	40.00	226,342	367.29	75.41	
112	122	42.12	5,007.85	4,306.98	9.625	40.00	227,769	370.48	76.01	
111	123	42.12	5,049.97	4,264.86	9.625	40.00	229,196	373.67	76.61	
110	124	42.12	5,092.09	4,222.74	9.625	40.00	230,623	376.86	77.21	
109	125	42.14	5,134.23	4,180.60	9.625	40.00	232,051	380.06	77.81	Centralizer
108	126	42.12	5,176.35	4,138.48	9.625	40.00	233,478	383.25	78.40	
107	127	42.13	5,218.48	4,096.35	9.625	40.00	234,905	386.44	79.00	
106	128	41.41	5,259.89	4,054.94	9.625	40.00	236,308	389.58	79.59	
105	129	41.76	5,301.65	4,013.18	9.625	40.00	237,723	392.75	80.18	
104	130	42.14	5,343.79	3,971.04	9.625	40.00	239,150	395.94	80.78	Centralizer
103	131	42.12	5,385.91	3,928.92	9.625	40.00	240,577	399.13	81.38	
102	132	42.13	5,428.04	3,886.79	9.625	40.00	242,005	402.33	81.98	
101	133	41.82	5,469.86	3,844.97	9.625	40.00	243,422	405.50	82.57	
100	134	42.12	5,511.98	3,802.85	9.625	40.00	244,849	408.69	83.17	
99	135	42.13	5,554.11	3,760.72	9.625	40.00	246,276	411.88	83.77	Centralizer
98	136	42.13	5,596.24	3,718.59	9.625	40.00	247,703	415.08	84.37	
97	137	42.11	5,638.35	3,676.48	9.625	40.00	249,130	418.27	84.96	
96	138	37.80	5,676.15	3,638.68	9.625	40.00	250,411	421.14	85.50	
95	139	42.14	5,718.29	3,596.54	9.625	40.00	251,838	424.33	86.10	

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:
94	140	42.13	5,760.42	3,554.41	9.625	40.00	253,266	427.52	86.70	Centralizer
93	141	42.14	5,802.56	3,512.27	9.625	40.00	254,694	430.72	87.30	
92	142	41.79	5,844.35	3,470.48	9.625	40.00	256,109	433.88	87.89	
91	143	38.25	5,882.60	3,432.23	9.625	40.00	257,405	436.78	88.43	
90	144	38.23	5,920.83	3,394.00	9.625	40.00	258,701	439.68	88.98	
89	145	38.22	5,959.05	3,355.78	9.625	40.00	259,995	442.58	89.52	Centralizer
88	146	42.14	6,001.19	3,313.64	9.625	40.00	261,423	445.77	90.12	
87	147	42.13	6,043.32	3,271.51	9.625	40.00	262,850	448.97	90.71	
86	148	42.12	6,085.44	3,229.39	9.625	40.00	264,278	452.16	91.31	
85	149	42.18	6,127.62	3,187.21	9.625	40.00	265,707	455.36	91.91	
84	150	42.12	6,169.74	3,145.09	9.625	40.00	267,134	458.55	92.51	Centralizer
83	151	42.17	6,211.91	3,102.92	9.625	40.00	268,562	461.75	93.11	
82	152	42.16	6,254.07	3,060.76	9.625	40.00	269,991	464.94	93.71	
81	153	42.13	6,296.20	3,018.63	9.625	40.00	271,418	468.13	94.31	
80	154	42.14	6,338.34	2,976.49	9.625	40.00	272,846	471.33	94.90	
79	155	42.14	6,380.48	2,934.35	9.625	40.00	274,273	474.52	95.50	Centralizer
78	156	42.12	6,422.60	2,892.23	9.625	40.00	275,701	477.72	96.10	
77	157	42.13	6,464.73	2,850.10	9.625	40.00	277,128	480.91	96.70	
76	158	42.15	6,506.88	2,807.95	9.625	40.00	278,556	484.10	97.30	
75	159	42.14	6,549.02	2,765.81	9.625	40.00	279,984	487.30	97.90	
74	160	42.13	6,591.15	2,723.68	9.625	40.00	281,411	490.49	98.49	Centralizer
73	161	42.13	6,633.28	2,681.55	9.625	40.00	282,838	493.69	99.09	
72	162	42.13	6,675.41	2,639.42	9.625	40.00	284,266	496.88	99.69	
71	163	42.14	6,717.55	2,597.28	9.625	40.00	285,693	500.07	100.29	
70	164	42.13	6,759.68	2,555.15	9.625	40.00	287,121	503.27	100.89	
69	165	42.13	6,801.81	2,513.02	9.625	40.00	288,548	506.46	101.49	Centralizer
68	166	42.13	6,843.94	2,470.89	9.625	40.00	289,976	509.65	102.08	
67	167	42.12	6,886.06	2,428.77	9.625	40.00	291,403	512.85	102.68	
66	168	42.16	6,928.22	2,386.61	9.625	40.00	292,831	516.04	103.28	
65	169	42.11	6,970.33	2,344.50	9.625	40.00	294,258	519.23	103.88	
64	170	42.12	7,012.45	2,302.38	9.625	40.00	295,685	522.43	104.48	Centralizer
63	171	42.13	7,054.58	2,260.25	9.625	40.00	297,112	525.62	105.07	
62	172	42.13	7,096.71	2,218.12	9.625	40.00	298,539	528.81	105.67	
61	173	42.12	7,138.83	2,176.00	9.625	40.00	299,966	532.01	106.27	
60	174	42.12	7,180.95	2,133.88	9.625	40.00	301,393	535.20	106.87	
59	175	42.13	7,223.08	2,091.75	9.625	40.00	302,821	538.39	107.47	Centralizer
58	176	42.13	7,265.21	2,049.62	9.625	40.00	304,248	541.59	108.07	
57	177	42.14	7,307.35	2,007.48	9.625	40.00	305,676	544.78	108.66	
56	178	42.13	7,349.48	1,965.35	9.625	40.00	307,103	547.97	109.26	
55	179	42.14	7,391.62	1,923.21	9.625	40.00	308,531	551.17	109.86	
54	180	42.14	7,433.76	1,881.07	9.625	40.00	309,959	554.36	110.46	Centralizer
53	181	42.13	7,475.89	1,838.94	9.625	40.00	311,386	557.56	111.06	
52	182	41.78	7,517.67	1,797.16	9.625	40.00	312,801	560.72	111.65	
51	183	42.13	7,559.80	1,755.03	9.625	40.00	314,229	563.92	112.25	
50	184	42.14	7,601.94	1,712.89	9.625	40.00	315,657	567.11	112.85	
49	185	42.16	7,644.10	1,670.73	9.625	40.00	317,085	570.31	113.45	Centralizer
48	186	42.14	7,686.24	1,628.59	9.625	40.00	318,513	573.50	114.04	
47	187	42.12	7,728.36	1,586.47	9.625	40.00	319,940	576.69	114.64	
46	188	42.15	7,770.51	1,544.32	9.625	40.00	321,368	579.89	115.24	
45	189	42.13	7,812.64	1,502.19	9.625	40.00	322,795	583.08	115.84	
44	190	42.13	7,854.77	1,460.06	9.625	40.00	324,222	586.27	116.44	Centralizer
43	191	42.13	7,896.90	1,417.93	9.625	40.00	325,650	589.47	117.04	
42	192	42.14	7,939.04	1,375.79	9.625	40.00	327,077	592.66	117.63	
41	193	42.11	7,981.15	1,333.68	9.625	40.00	328,504	595.85	118.23	
40	194	42.12	8,023.27	1,291.56	9.625	40.00	329,931	599.05	118.83	
39	195	42.12	8,065.39	1,249.44	9.625	40.00	331,358	602.24	119.43	Centralizer
38	196	42.12	8,107.51	1,207.32	9.625	40.00	332,785	605.43	120.03	
37	197	42.12	8,149.63	1,165.20	9.625	40.00	334,212	608.62	120.62	
36	198	42.12	8,191.75	1,123.08	9.625	40.00	335,639	611.82	121.22	
35	199	42.12	8,233.87	1,080.96	9.625	40.00	337,066	615.01	121.82	
34	200	42.14	8,276.01	1,038.82	9.625	40.00	338,494	618.20	122.42	Centralizer
33	201	42.13	8,318.14	996.69	9.625	40.00	339,921	621.40	123.02	
32	202	42.16	8,360.30	954.53	9.625	40.00	341,350	624.59	123.62	
31	203	42.13	8,402.43	912.40	9.625	40.00	342,777	627.79	124.21	
30	204	42.13	8,444.56	870.27	9.625	40.00	344,205	630.98	124.81	
29	205	42.11	8,486.67	828.16	9.625	40.00	345,631	634.17	125.41	Centralizer
28	206	42.14	8,528.81	786.02	9.625	47.00	347,309	637.26	126.12	
27	207	42.12	8,570.93	743.90	9.625	40.00	348,736	640.45	126.72	
26	208	42.13	8,613.06	701.77	9.625	40.00	350,163	643.64	127.31	
25	209	42.13	8,655.19	659.64	9.625	40.00	351,591	646.84	127.91	
24	210	41.79	8,696.98	617.85	9.625	40.00	353,006	650.00	128.51	Centralizer
23	211	42.09	8,739.07	575.76	9.625	40.00	354,432	653.19	129.10	
22	212	42.13	8,781.20	533.63	9.625	40.00	355,860	656.39	129.70	
21	213	42.13	8,823.33	491.50	9.625	40.00	357,287	659.58	130.30	
20	214	42.12	8,865.45	449.38	9.625	40.00	358,714	662.77	130.90	
19	215	42.14	8,907.59	407.24	9.625	40.00	360,142	665.97	131.50	Centralizer
18	216	42.09	8,949.68	365.15	9.625	40.00	361,568	669.16	132.09	
17	217	42.12	8,991.80	323.03	9.625	40.00	362,995	672.35	132.69	
16	218	41.41	9,033.21	281.62	9.625	40.00	364,398	675.49	133.28	
15	219	42.13	9,075.34	239.49	9.625	40.00	365,825	678.68	133.88	
14	220	42.11	9,117.45	197.38	9.625	40.00	367,252	681.88	134.48	Centralizer
13	221	42.13	9,159.58	155.25	9.625	40.00	368,679	685.07	135.08	
12	222	42.18	9,201.76	113.07	9.625	40.00	370,108	688.27	135.67	
11	223	42.13	9,243.89	70.94	9.625	40.00	371,536	691.46	136.27	
10	224	42.12								out
9	225	42.13								out
8	226	42.19								out
7	227	42.11								out
6	228	42.12								out
5	229	42.12								out
4	230	42.13								out
3	231	42.11								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:
2	232	41.77								out
1	233	42.41	9,286.30	28.53	9.625	40.00	372,973	694.67	136.87	47#
Mandrel	212	1.13	9,287.43	27.40	9.625	40.00	373,011	694.76	136.89	
LJ	213	31.65	9,319.08	(4.25)	9.625	40.00	374,083	697.16	137.34	

Caza Petroleum, Inc.
Comanche 25-36 Fed State 2Y
Rig:Citadel 4



DV Intermediate
T-27517
County: Lea
Supervisor: Roberto Garcia

Cementing Job Log						
Date	Time	Description	Rate (BPM)	Volume (BBL)	Pressure (PSI)	Details of Operation and Procedure
01/28/2021	18:00	Called Out				Crew called for Caza Dv Intermediate hard Time 200
01/28/2021	18:30	Conduct Meetings				Journey management meeting...
01/28/2021	19:00	Depart For Job				Departing from Orla Tx...
01/28/2021	22:30	Arrived on Location				All NES equipment at Caza location...
01/28/2021	22:45	Conduct Meetings				NES crew location spot equipment rigging up ground.
01/28/2021	22:47	Rigs Progress at Arrival				Rig with casing on bottom circulating.
01/28/2021	23:00	Discuss Job With Customer				Information provided by Night company TD.- 9,325' TP.- 7179 of 9 5/8" 40# 2,140 of 47# DVT.- 4,904' ECP.- 4,906' O/H.- 12 1/4" P/C.- 1,000' of 13 3/8" 54.5#.
01/28/2021	23:50	Rig Equipment				Spot equipment ,rigging up ground....
01/29/2021	02:20	Conduct Meetings				Rig ready for cement job. Dog house job execution and JSA with all parties involved
01/29/2021	02:55	Fill Lines				Pumping FW to flood lines testing for leaks...
01/29/2021	02:58	Pressure Test			5500	Pressure testing steel lines....
01/29/2021	03:03	Start Spacer	4	0	367	Starting Fresh water spacer .
01/29/2021	03:13	Spacer Complete	6	40	400	Fresh water spacer completed...
01/29/2021	03:14	Start Cement	6	0	400	Starting 1st STG lead cement weighed via electronic Denso at 11.5 PPG wet sample verified by pressurized scale...
01/29/2021	04:28	Cement Complete	4	436	850	1st STG cement completed....
01/29/2021	04:29	Start Cement	4	0	820	Starting 1st STG Tail cement weighed via electronic Denso 15.6 PPG , wet sample weight verified by pressurized scale....
01/29/2021	04:45	Cement Complete	3	63	150	1st STG Tail cement completed, pumping remain slurry in mixing tub getting ready to shut down
01/29/2021	04:47	Release Plug				loading and releasing top innovex rubber plug...
01/29/2021	04:50	Start Displacement	6	0	630	Starting fresh water displacement, washing up pump and lines on top of the plug.
01/29/2021	04:55	Switch Displacement Fluid	8	20	560	Switch to 10 PPG water base mud...
01/29/2021	06:29	Decrease Rate	3	670	870	Slowing down rate to land plug.. pressure from 1,200 psi down to 870 psi
01/29/2021	06:45	Shut Down	3	697	1000	Shutting down pumps at calculated displacement, no signs of plug landed...
01/29/2021	06:56	Other				Loading and releasing in cement head contingency ECP cone opener
01/29/2021	07:30	Other	2	0	1800	Pumping FW to open ECP
01/29/2021	07:40	Other				ECP open and packer inflated at 2,700 psi psi dropped down to 2,490 psi's open bleeders to check floats and packer integrity... 1/4 Bbl back
01/29/2021	07:50	Other				Load and releasing DVT cone opener waiting 25 minutes to let it gravity fall .
01/29/2021	08:15	Other	2	0	100	Start pumping FW to open Dv Tool..
01/29/2021	08:17	Other	2	2	520	Dv Tool opened at 700 psi psi dropped down to 520
01/29/2021	08:20	Shut Down	2	10	520	Swap valves to rig pump stand pipe to circulate bottoms up..
01/29/2021	08:50	Conduct Meetings				Dog House 2nd STG job execution JSA with all parties involved...

01/29/2021	09:00	Other				Switch valves to cement pump stand pipe to start second stage...
01/29/2021	09:05	Start Spacer	5	0	300	Starting Green Dye fresh water spacer...
01/29/2021	09:13	Spacer Complete	6	40	600	FW spacer completed....
01/29/2021	09:14	Start Cement	6	0	600	Starting 2d STG Lead cement ,weighed via electronic Denso at 11.5 PPG ,wet sample weight verified by pressurized mud scale
01/29/2021	10:40	Cement Complete	6	489	500	2nd STG Lead cement completed good returns..
01/29/2021	10:41	Start Cement	5	0	450	Starting 2nd STG Tail cement weighed via electronic Denso at 14.8 PPG , Wet sample weight verified by pressurized mud scale.
01/29/2021	10:50	Cement Complete	3	36	300	2nd STG Tail cement completed, pumping remain slurry in mixing tub getting ready to shut down..
01/29/2021	11:00	Release Plug				Load and release closing tool plug....
01/29/2021	11:02	Start Displacement	6	0	800	Starting fresh water displacement....
01/29/2021	11:39	Decrease Rate	3	350	800	Slowing down rate to land plug. Pressure dropped from 1,100 psi down to 800 psi.
01/29/2021	11:40	Other	3	352	850	Cement circulating back to surface...
01/29/2021	11:47	Bump Plug	3	372	1800	Plug landed at calculated displacement, pressure from 800 psi bump it up to 1,800 psi to close tool.
01/29/2021	11:53	Other				Open bleeders, 3.5 bbl back plug holding ,DVT closed..
01/29/2021	12:00	Conduct Meetings				NES crew rig down meeting..
01/29/2021	12:05	Other				Rig down all equipment..
01/29/2021	13:30	Conduct Meetings				NES crew journey management meeting...
01/29/2021	13:45	Other				Departing location...

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			
Field Supervisor		Roberto Garcia	
Operator		Roberto Kelly	
		ILIAN SABORI	
Bulk Hand		Jose MUNOZ	
Operator		Freddie Rodriguez	
Casing Information			
		Previous Casing	Hole & Casing Info
Hole Size 1			12.25
MD:			9325
TVD:			9300
Casing Size		13.375	9.625
Casing Grade			P-110
Casing Length		1000	45
Casing Weight		54.50	40.00
Casing ID			8.835
DV Tool			4904
Shoe Joint			46
Burst Pressure		6520	
Cement Returns		20	
Mud Info		Water Info	
Type	WBM	PH	7
Weight	9	Chlrd	900
		Temp	70

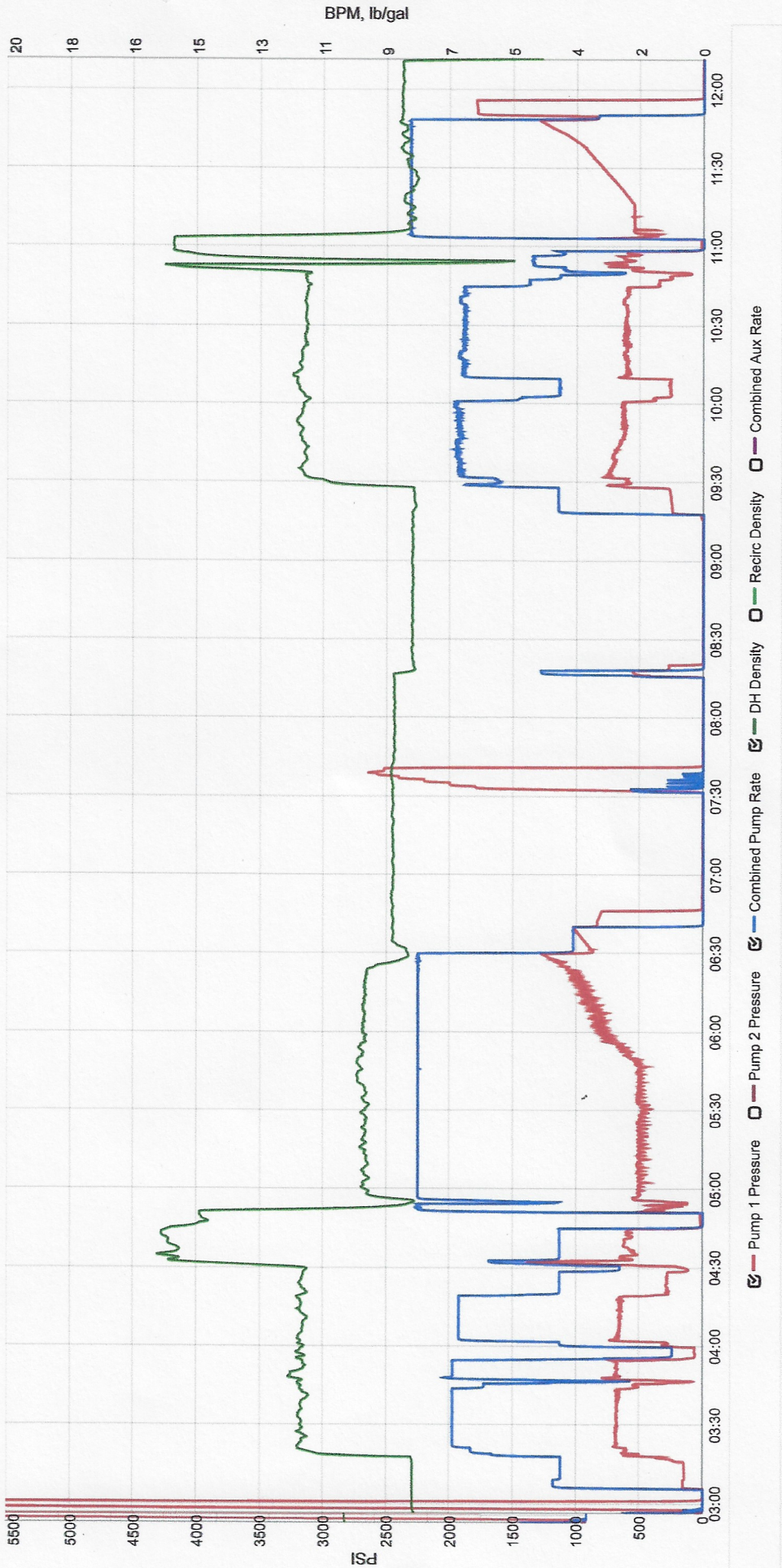
Spacer					
	PPG		YLD		H2O
Lead CMT					
11.5	PPG	2.29	YLD	12.64	H2O
			1070	Sacks	50/50 Poz C
			5	bwow	Sodium Chloride (Salt)
			4	%	Bentonite Gel
			0.2	%	CPT-19
			2	%	CPT-45
			0.4	%	CPT-503P
			5	%	Gypsum
			0.45	%	CPT-20A
			0.45	%	Citric Acid
Tail CMT					
15.6	PPG	1.18	YLD	5.22	H2O
			300	Sacks	Class H Cement
			0.1	%	CPT-23
			0.1	%	CPT-51A
Spacer - Stage 2					
	PPG		YLD		H2O
Lead CMT - Stage 2					
11.5	PPG	2.29	YLD	12.64	H2O
			1200	Sacks	50/50 Poz C
			5	bwow	Sodium Chloride (Salt)
			4	%	Bentonite Gel
			0.1	%	CPT-19
			2	%	CPT-45
			0.4	%	CPT-503P
			5	%	Gypsum
			0.15	%	CPT-20A
			0.15	%	Citric Acid

Tail CMT - Stage 2					
14.8	PPG	1.33	YLD	6.32	H2O
			150	Sacks	Class C Cement
			0.1	%	CPT-24

caza

comanche 2536FS2Y

T-27515



Events

Date	Flag	Total	Pump 1 Pressure	Pump 2 Pressure	Pump Combined Rate	Description
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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 16854

CONDITIONS OF APPROVAL

Operator: CAZA OPERATING, LLC Suite 1550 Midland, TX79701	200 N Loraine St	OGRID: 249099	Action Number: 16854	Action Type: C-103N
OCD Reviewer plmartinez	Condition None			