



925 S. BROADWAY
P.O. BOX 909
CORTEZ, CO 81321

(303) 565-1056

November 21, 1991

Mr. Dan Kelly
Citation Oil & Gas
P.O. Box 3032
Odessa, TX 79760

Per your request, attached are results of the most current water analyses Champlon has on waters produced from the Lower and Upper zones of the Hospah unit.

As we have discussed, the waters produced from each zone are in close resemblance of each other. without any component greatly differing from another.

The upper and lower zones are co-mingled at the surface and re-injected as combined water into a water flood. The waters have been mixed and re-injected as a whole since the Hospah water flood was initiated. As indicative of the day to day operation, co-mingling the water of the upper and lower zones have not shown to be incompatible.

Crude oil produced from the upper and lower zones will not create a treating problem after the oil is mixed. Oil from the zones have been mixed, and did not create an emulsion problem that couldn't be treated under current system conditions.

Should you have any questions, please do not hesitate to call.

Sincerely,

A handwritten signature in cursive script, appearing to read "Gregg Swindle".

Gregg Swindle

GS/pp

EXHIBIT 6



P.O. BOX 809
CORTEZ, COLORADO 81321
(303) 565-1066

WATER ANALYSIS REPORT

REPORT FOR: Dan Kelly/Kevin Kane
CC: Dickie Charley
CC:
CC:

COMPANY: Citation Oil & Gas Corp.
ADDRESS: P.O. BOX 30
Odessa, TX 79760-3032

Lease: Hospan
Date Sampled: 6/21/90
Date Analyzed: 6/29/90

SALESMAN: Dan Stewart

CHEMICAL COMPONENT	WELL # U-16 6-21-90	WELL # U-19 6-21-90	WELL # U-21 6-21-90	WELL # U-22 6-21-90	WELL # U-26 6-21-90	WELL # U-48 6-21-90
CHLORIDE (MGS/L)	1100	800	1200	600	400	1400
SULFATE (MGS/L)	338	923	280	425	698	108
CARBONATE (MGS/L)	0	0	0	60	0	0
BICARBONATE (MGS/L)	1220	915	1159	915	841	1464
TTL HARDNESS (MGS/L)	110	130	110	100	120	140
CALCIUM (MGS/L)	24	24	20	16	20	28
MAGNESIUM (MGS/L)	12	17	15	15	17	17
IRON (MGS/L)	2	35	2	99	2.5	2.5
BARIUM (MGS/L)	0	0	0	0	0	0
STRONTIUM (MGS/L)	0	0	0	0	0	0
SODIUM (MGS/L)	1285	1246	1298	937	855	1447
PH	7.0	7.1	7.1	7.5	7.0	7.1
IONIC STRENGTH	0.06	0.07	0.06	0.05	0.05	0.07
SPECIFIC GRAVITY	1.00	1.00	1.00	1.00	1.00	1.00
SI@20C (68F)	-0.41	-0.45	-0.41	-0.14	-0.60	-0.18
SI@25C (77F)	-0.27	-0.31	-0.27	0.00	-0.46	-0.04
SI@30C (86F)	-0.13	-0.17	-0.13	0.15	-0.32	0.10
SI@40C (104F)	0.11	0.07	0.11	0.38	-0.09	0.34
SI@50C (122F)	0.27	0.23	0.27	0.54	0.07	0.50
SI@60C (140F)	0.51	0.47	0.50	0.77	0.30	0.74
SI@70C (158F)	0.59	0.56	0.59	0.85	0.38	0.83
SI@80C (176F)	0.86	0.83	0.86	1.10	0.64	1.10
SI@90C (194F)	1.06	1.03	1.06	1.30	0.83	1.30
TDS (MGS/L)	3979	3925	3972	2968	2831	4464
TEMPERATURE (F)	82	84	84	82	82	82
DISSOLVED H2S (PPM)	78	78	129	73	117	81
DISSOLVED CO2 (PPM)	44	44	44	0	44	44
DISSOLVED O2 (PPM)						



P.O. BOX 806
CORTEZ, COLORADO 81321
(303) 565-1058

WATER ANALYSIS REPORT

REPORT FOR: Dan Kelly/Kevin Kane
CC: Dickie Charley
CC:
CC:

COMPANY: Citation Oil & Gas Corp.
ADDRESS: P.O. BOX 30
Odessa, TX 79760-3032

Lease: Hospah
Date Sampled: 6/21/90
Date Analyzed: 6/29/90

SALESMAN: Dan Stewart

CHEMICAL COMPONENT	WELL # FWKO UPPER 6-21-90	WELL # FWKO LOW#1 6-21-90	WELL # FWKO LOW#2 6-21-90	WELL # L-3 6-21-90	WELL # L-7 6-21-90	WELL # L-8 6-21-90	WELL # L-12 6-21-90
CHLORIDE (MGS/L)	1000	1000	1200	900	500	700	500
SULFATE (MGS/L)	683	633	665	778	683	923	903
CARBONATE (MGS/L)	0	0	0	0	0	0	0
BICARBONATE (MGS/L)	1049	866	744	671	805	762	390
TTL HARDNESS (MGS/L)	120	100	150	120	140	130	120
CALCIUM (MGS/L)	24	24	32	24	36	28	20
MAGNESIUM (MGS/L)	15	12	17	15	12	15	17
IRON (MGS/L)	5.5	1	3.5	2.5	2.5	1	2.5
BARIUM (MGS/L)	0	0	0	0	0	0	0
STRONTIUM (MGS/L)	0	0	0	0	0	0	0
SODIUM (MGS/L)	1315	1228	1308	1153	890	1125	848
PH	7.2	7.0	7.0	6.8	6.9	6.9	6.8
IONIC STRENGTH	0.07	0.06	0.07	0.06	0.05	0.06	0.05
SPECIFIC GRAVITY	1.00	1.00	1.00	1.00	1.00	1.00	1.00
SI@20C (68F)	-0.29	-0.56	-0.51	-0.86	-0.47	-0.64	-1.14
SI@25C (77F)	-0.15	-0.42	-0.37	-0.73	-0.33	-0.50	-1.00
SI@30C (86F)	-0.01	-0.28	-0.23	-0.58	-0.19	-0.36	-0.86
SI@40C (104F)	0.23	-0.04	0.00	-0.35	0.04	-0.12	-0.63
SI@50C (122F)	0.39	0.12	0.16	-0.19	0.20	0.03	-0.47
SI@60C (140F)	0.63	0.36	0.40	0.05	0.43	0.27	-0.24
SI@70C (158F)	0.72	0.44	0.49	0.13	0.51	0.36	-0.16
SI@80C (176F)	0.98	0.71	0.76	0.40	0.77	0.62	0.10
SI@90C (194F)	1.19	0.91	0.97	0.60	0.97	0.83	0.30
TDS (MGS/L)	4086	3763	3966	3541	2926	3559	2678
TEMPERATURE (F)	82	82	82	82	84	86	82
DISSOLVED H2S (PPM)	137	113	115	90	86	125	51
DISSOLVED CO2 (PPM)	33	33	33	44	66	44	21
DISSOLVED O2 (PPM)							



P.O. BOX 909
CORTIZ, COLORADO 81321
(303) 585-1066

WATER ANALYSIS REPORT

REPORT FOR: Dan Kelly/Kevin Kane
CC: Dickie Charley
CC:
CC:

COMPANY: Citation Oil & Gas Corp.
ADDRESS: P.O. Box 248
Farmington, NM 87499

Lease: Hospah
Date Sampled: 6/1/90
Date Analyzed: 6/7/90

SALESMAN: Dan Stewart

CHEMICAL COMPONENT	WELL # L-32 6-1-90	WELL # L-37X 6-1-90	WELL # L-47 6-1-90	WELL # U-29 6-1-90	WELL # U-31 6-1-90
CHLORIDE (MGS/L)	800	500	800	2300	1000
SULFATE (MGS/L)	683	650	590	370	338
CARBONATE (MGS/L)	84	60	72	72	60
BICARBONATE (MGS/L)	656	646	658	707	854
TTL HARDNESS (MGS/L)	130	140	140	140	150
CALCIUM (MGS/L)	36	28	28	32	32
MAGNESIUM (MGS/L)	10	17	17	15	17
IRON (MGS/L)	2.5	2	1	21	68
BARIUM (MGS/L)	0	0	0	0	0
STRONTIUM (MGS/L)	0	0	0	0	0
SODIUM (MGS/L)	1098	860	1040	1925	1109
pH	7.3	7.6	7.5	8.0	8.0
IONIC STRENGTH	0.06	0.05	0.06	0.09	0.06
SPECIFIC GRAVITY	1.00	1.00	1.00	1.00	1.00
SI@20C (68F)	-0.14	0.06	-0.05	0.44	0.61
SI@25C (77F)	0.00	0.20	0.09	0.57	0.75
SI@30C (86F)	0.14	0.35	0.24	0.71	0.89
SI@40C (104F)	0.38	0.58	0.47	0.95	1.13
SI@50C (122F)	0.54	0.74	0.63	1.11	1.28
SI@60C (140F)	0.77	0.97	0.86	1.37	1.52
SI@70C (158F)	0.86	1.05	0.95	1.47	1.60
SI@80C (176F)	1.12	1.31	1.21	1.75	1.86
SI@90C (194F)	1.32	1.50	1.41	1.96	2.07
TDS (MGS/L)	3369	2761	3205	5421	3410
TEMPERATURE (F)	90	86	86	86	80
DISSOLVED H2S (PPM)	96	90	71	41	63
DISSOLVED CO2 (PPM)	0	0	0	0	0
DISSOLVED O2 (PPM)					



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CORTEZ, COLORADO 81321
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WATER ANALYSIS REPORT

REPORT FOR: Dan Kelly/Kevin Kane
CC: Dickie Charley
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CC:

COMPANY: Citation Oil & Gas Corp.
ADDRESS: P.O. Box 248
Farmington, NM 87499

Lease: Hospah
Date Sampled: 6/1/90
Date Analyzed: 6/7/90

SALESMAN: Dan Stewart

CHEMICAL COMPONENT	WELL # HOS.- 9 6-1-90	WELL # L-10 6-1-90	WELL # L-14 6-1-90	WELL # L-24 6-1-90	WELL # L-25 6-1-90
CHLORIDE (MGS/L)	900	700	500	600	600
SULFATE (MGS/L)	699	650	730	590	590
CARBONATE (MGS/L)	72	36	72	84	130
BICARBONATE (MGS/L)	646	170	463	756	536
TTL HARDNESS (MGS/L)	130	140	120	110	130
CALCIUM (MGS/L)	28	32	20	24	28
MAGNESIUM (MGS/L)	15	15	17	12	15
IRON (MGS/L)	1	1	1	1	1
BARIUM (MGS/L)	0	0	0	0	0
STRONTIUM (MGS/L)	0	0	0	0	0
SODIUM (MGS/L)	1156	792	848	970	913
PH	7.2	7.2	7.5	7.5	7.7
IONIC STRENGTH	0.06	0.05	0.05	0.05	0.05
SPECIFIC GRAVITY	1.00	1.00	1.00	1.00	1.00
SI@20C (68F)	-0.37	-0.80	-0.30	-0.04	0.13
SI@25C (77F)	-0.23	-0.66	-0.16	0.10	0.27
SI@30C (86F)	-0.09	-0.52	-0.02	0.24	0.41
SI@40C (104F)	0.15	-0.29	0.21	0.48	0.65
SI@50C (122F)	0.30	-0.13	0.37	0.64	0.81
SI@60C (140F)	0.54	0.10	0.60	0.87	1.04
SI@70C (158F)	0.63	0.18	0.69	0.95	1.12
SI@80C (176F)	0.89	0.43	0.94	1.21	1.38
SI@90C (194F)	1.10	0.63	1.14	1.41	1.58
TDS (MGS/L)	3516	2395	2650	3036	2812
TEMPERATURE (F)	84	88	82	84	90
DISSOLVED H2S (PPM)	97	51	85	108	77
DISSOLVED CO2 (PPM)	0	0	0	0	0
DISSOLVED O2 (PPM)					



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CORTEZ COLORADO 81321
(303) 565-1056

WATER ANALYSIS REPORT

REPORT FOR: Dan Kelly/Kevin Kane
CC: Dickie Charley
CC:
CC:

COMPANY: Citation Oil & Gas Corp.
ADDRESS: P.O. Box 248
Farmington, NM 87499

Lease: Hospah
Date Sampled: 6/8/90
Date Analyzed: 6/12/90

SALESMAN: Dan Stewart

CHEMICAL COMPONENT	WELL # FWKO UPPER 6-21-90	WELL # FWKO LOW#1 6-21-90	WELL # FWKO LOW#2 6-21-90	WELL # L-3 6-21-90	WELL # L-7 6-21-90	WELL # L-8 6-21-90	WELL # L-12 6-21-90
CHLORIDE (MGS/L)	1000	1000	1200	900	500	700	500
SULFATE (MGS/L)	683	633	665	778	683	923	903
CARBONATE (MGS/L)	0	0	0	0	0	0	0
BICARBONATE (MGS/L)	1049	866	744	671	805	768	390
TTL HARDNESS (MGS/L)	120	100	150	120	140	130	120
CALCIUM (MGS/L)	24	24	32	24	36	28	20
MAGNESIUM (MGS/L)	15	12	17	15	12	15	17
IRON (MGS/L)	5.5	1	3.5	2.5	2.5	1	2.5
BARIUM (MGS/L)	0	0	0	0	0	0	0
STRONTIUM (MGS/L)	0	0	0	0	0	0	0
SODIUM (MGS/L)	1315	1228	1308	1153	890	1125	848
pH	7.2	7.0	7.0	6.8	6.9	6.9	6.8
IONIC STRENGTH	0.07	0.06	0.07	0.06	0.05	0.06	0.05
SPECIFIC GRAVITY	1.00	1.00	1.00	1.00	1.00	1.00	1.00
SI@20C (68F)	-0.29	-0.56	-0.51	-0.86	-0.47	-0.64	-1.14
SI@25C (77F)	-0.15	-0.42	-0.37	-0.73	-0.33	-0.50	-1.00
SI@30C (86F)	-0.01	-0.28	-0.23	-0.58	-0.19	-0.36	-0.86
SI@40C (104F)	0.23	-0.04	0.00	-0.35	0.04	-0.12	-0.63
SI@50C (122F)	0.39	0.12	0.16	-0.19	0.20	0.03	-0.47
SI@60C (140F)	0.63	0.36	0.40	0.05	0.43	0.27	-0.24
SI@70C (158F)	0.72	0.44	0.49	0.13	0.51	0.36	-0.16
SI@80C (176F)	0.98	0.71	0.76	0.40	0.77	0.62	0.10
SI@90C (194F)	1.19	0.91	0.97	0.60	0.97	0.83	0.30
TDS (MGS/L)	4086	3763	3966	3541	2926	3559	2678
TEMPERATURE (F)	82	82	82	82	84	86	82
DISSOLVED H2S (PPM)	137	113	115	90	86	125	51
DISSOLVED CO2 (PPM)	33	33	33	44	66	44	22
DISSOLVED O2 (PPM)							



P.O. BOX 909
CORTEZ, COLORADO 81321
(303) 565-1056

WATER ANALYSIS REPORT

REPORT FOR: Dan Kelly/Kevin Kane

CC: Dickie Charley

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COMPANY: Citation Oil & Gas Corp.

Lease: Hospah

ADDRESS: P.O. BOX 30

Date Sampled: 6/21/90

Odessa, TX 79760-3032

Date Analyzed: 6/29/90

SALESMAN: Dan Stewart

CHEMICAL COMPONENT	WELL # L-50 6-21-90	WELL # L-61 6-21-90	WELL # L-63 6-21-90	WELL # L-64 6-21-90	WELL # U-1X 6-21-90	WELL # U-2 6-21-90	WELL # U-15 6-21-90
CHLORIDE (MGS/L)	600	700	500	600	1100	700	500
SULFATE (MGS/L)	830	650	590	710	338	410	338
CARBONATE (MGS/L)	0	0	0	0	0	72	72
BICARBONATE (MGS/L)	793	902	878	427	1159	854	951
TTL HARDNESS (MGS/L)	130	130	140	100	120	100	90
CALCIUM (MGS/L)	36	24	24	24	20	20	24
MAGNESIUM (MGS/L)	10	17	19	10	17	12	7
IRON (MGS/L)	3.5	2	3	2	2	2.5	1
BARIUM (MGS/L)	0	0	0	0	0	0	0
STRONTIUM (MGS/L)	0	0	0	0	0	0	0
SODIUM (MGS/L)	1025	1045	874	843	1257	981	859
PH	6.9	7.0	7.2	6.9	7.0	7.3	7.3
IONIC STRENGTH	0.06	0.06	0.05	0.05	0.06	0.05	0.05
SPECIFIC GRAVITY	1.00	1.00	1.00	1.00	1.00	1.00	1.00
SI@20C (68F)	-0.50	-0.52	-0.31	-0.92	-0.51	-0.27	-0.15
SI@25C (77F)	-0.36	-0.38	-0.17	-0.78	-0.37	-0.13	0.00
SI@30C (86F)	-0.22	-0.24	-0.02	-0.63	-0.22	0.01	0.14
SI@40C (104F)	0.02	0.00	0.21	-0.40	0.01	0.25	0.37
SI@50C (122F)	0.17	0.16	0.37	-0.24	0.17	0.41	0.53
SI@60C (140F)	0.41	0.39	0.60	-0.01	0.41	0.64	0.76
SI@70C (158F)	0.49	0.47	0.68	0.07	0.49	0.72	0.84
SI@80C (176F)	0.75	0.74	0.93	0.32	0.76	0.98	1.10
SI@90C (194F)	0.96	0.94	1.13	0.52	0.96	1.17	1.30
TDS (MGS/L)	3294	3338	2885	2614	3891	3049	2751
TEMPERATURE (F)	84	84	84	84	82	84	84
DISSOLVED H2S (PPM)	119	105	127	90	136	127	102
DISSOLVED CO2 (PPM)	66	44	33	33	44	0	0
DISSOLVED O2 (PPM)							



P.O. BOX 909
CORTEZ, COLORADO 81321
(303) 565-1056

WATER ANALYSIS REPORT

REPORT FOR: Dan Kelly/Kevin Kane
CC: Dickie Charley
CC:
CC:

COMPANY: Citation Oil & Gas Corp.
ADDRESS: P.O. Box 248
Farmington, NM 87499

Lease: Hospah
Date Sampled: 6/8/90
Date Analyzed: 6/12/90

SALESMAN: Dan Stewart

CHEMICAL COMPONENT	WELL # L-6 6-8-90	WELL # L-35 6-8-90	WELL # L-38 6-8-90	WELL # L-49 6-8-90	WELL # L-62 6-8-90	WELL # U-28 6-8-90	WELL # U-30 6-8-90
CHLORIDE (MGS/L)	600	500	500	600	500	400	2500
SULFATE (MGS/L)	683	710	683	590	650	650	300
CARBONATE (MGS/L)	60	12	48	84	72	60	60
BICARBONATE (MGS/L)	622	280	647	732	683	695	1098
TTL HARDNESS (MGS/L)	150	150	140	150	130	150	200
CALCIUM (MGS/L)	28	32	28	28	28	28	100
MAGNESIUM (MGS/L)	19	17	17	19	15	19	24
IRON (MGS/L)	1	1	0.5	2.5	0.5	0.5	1
BARIUM (MGS/L)	0	0	0	0	0	0	0
STRONTIUM (MGS/L)	0	0	0	0	0	0	0
SODIUM (MGS/L)	928	710	867	944	887	810	2064
PH	7.3	7.1	7.2	7.7	7.4	7.4	7.3
IONIC STRENGTH	0.05	0.04	0.05	0.05	0.05	0.05	0.10
SPECIFIC GRAVITY	1.00	1.00	1.00	1.00	1.00	1.00	1.00
SI@20C (68F)	-0.26	-0.74	-0.35	0.21	-0.11	-0.10	0.37
SI@25C (77F)	-0.12	-0.60	-0.21	0.35	0.03	0.04	0.51
SI@30C (86F)	0.02	-0.46	-0.06	0.50	0.17	0.18	0.64
SI@40C (104F)	0.25	-0.22	0.17	0.73	0.41	0.42	0.89
SI@50C (122F)	0.41	-0.07	0.33	0.89	0.56	0.57	1.04
SI@60C (140F)	0.64	0.16	0.56	1.12	0.79	0.80	1.31
SI@70C (158F)	0.73	0.23	0.64	1.20	0.87	0.88	1.42
SI@80C (176F)	0.99	0.49	0.90	1.46	1.13	1.14	1.70
SI@90C (194F)	1.19	0.69	1.10	1.66	1.33	1.34	1.92
TDS (MGS/L)	2940	2261	2790	2997	2835	2662	6146
TEMPERATURE (F)	82	80	90	84	86	86	80
DISSOLVED H2S (PPM)	133	56	111	78	97	100	111
DISSOLVED CO2 (PPM)	0	0	0	0	0	0	0
DISSOLVED O2 (PPM)							