

MITCHELL ANALYTICAL LABORATORY

2638 Faudree
 Odessa Texas 79765 8538
 561 5579

Company **WadeCo Specialties, LLC**

Well Number	Bobcat SWD T/P	Sample Temp	69 98
Lease	OWL	Date Sampled	7/9/2017
Location	WC56428	Sampled by	Wade Havens
Date Run	2/16/2017	Employee #	
Lab Ref #	17 Feb h25945	Analyzed by	GR

Dissolved Gases

		Mg/L	Eq Wt	MEq/L
Hydrogen Sulfide	(H2S)	5 00	16 00	31
Carbon Dioxide	(CO2)	900 00	22 00	40 91
Dissolved Oxygen	(O2)	40	8 00	05

Cations

Calcium	(Ca++)	5 708 40	20 10	284 00
Magnesium	(Mg++)	790 56	12 20	64 80
Sodium	(Na+)	47 829 56	23 00	2 079 55
Barium	(Ba++)	NOT ANALYZED		
Manganese	(Mn+)	1 25	27 50	05
Strontium	(Sr++)	NOT ANALYZED		

Anions

Hydroxyl	(OH)	00	17 00	00
Carbonate	(CO3=)	00	30 00	00
BiCarbonate	(HCO3)	733 20	61 10	17 00
Sulfate	(SO4=)	660 00	48 80	13 52
Chloride	(Cl)	83 892 18	35 50	7 363 16
Total Iron	(Fe)	23 29	18 60	1 25
Total Dissolved Solids		140 543 84		
Total Hardness as CaCO3		17 512 30		
Conductivity MICROMHOS/CM		174 800		

pH 6 010 Specific Gravity 60/60 F 1 098

CaSO4 Solubility @ 80 F 38 55MEq/L CaSO4 scale is unlikely

CaCO3 Scale Index

70 0	125	100 0	445	130 0	1 005
80 0	215	110 0	705	140 0	1 005
90 0	445	120 0	705	150 0	1 345

WadeCo Specialties, LLC



PHONE (915) 673-7001 • 2111 BEECHWOOD • ABILENE, TX 79603

PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

CASE NO. 15723
Division Exhibit No. 6
 Produced Water Sample:
 Brown Well No. 5 and Maralo
 Sholes B Well No. 2

ANALYTICAL RESULTS FOR
EDDIE SEAY CONSULTING
 ATTN: EDDIE SEAY
 601 W. ILLINOIS
 HOBBS, NM 88240
 FAX TO:

Receiving Date: 03/08/00
 Reporting Date: 03/14/00
 Project Owner: Fulda
 Project Name: Brown SWD
 Project Location: JAL, NM

Sampling Date: 03/08/00
 Sample Type: PRODUCED WATER
 Sample Condition: COOL & INTACT
 Sample Received By: BC
 Analyzed By: AH

LAB NUMBER	SAMPLE ID	P-Alkalinity (mg/L)	T-Alkalinity (mg/L)	Hardness (mg/L)	Chloride (mg/L)	Sulfates (mg/L)	pH (s.u.)
ANALYSIS DATE		03/13/00	03/13/00	03/13/00	03/13/00	03/13/00	03/13/00
H4702-1	7 RIVERS	0	144	3850	8480	3080	7.41
H4702-2	QUEEN	0	820	1550	6840	529	7.20
H4702-3	DEVONIAN	0	1500	15400	20700	10800	7.55
H4702-4	LM	0	710	11500	38600	2340	6.93
Quality Control		NR	NR	53	858	50.5	6.99
True Value QC		NR	NR	50	1000	50.0	7.00
% Recovery		NR	NR	108	68	101	100
Relative Percent Difference		NR	NR	7.5	4.0	0.2	0.4

METHODS:	EPA 600/4-78-02	-	-	130.2	325.3	375.4	150.1
	Standard Method	2320 B	2320 B	-	-	-	-

LAB NUMBER	SAMPLE ID	Hydroxides (mg/L)	Carbonates (mg/L)	Bicarbonates (mg/L)	Conductivity (u mhos/cm)	TDS (mg/L)
ANALYSIS DATE		03/13/00	03/13/00	03/13/00	03/13/00	03/13/00
H4702-1	7 RIVERS	0	0	177	14300	8200
H4702-2	QUEEN	0	0	1000	10300	5000
H4702-3	DEVONIAN	0	0	1830	48400	42800
H4702-4	LM	0	0	888	68000	75000
Quality Control		NR	NR	871	1382	NR
True Value QC		NR	NR	1000	1413	NR
% Recovery		NR	NR	87	99	NR
Relative Percent Difference		NR	NR	-	0.2	NR

METHODS:	EPA 600/4-78-02	-	-	-	120.1	180.1
	Standard Method	2320 B	2320 B	2320 B	-	-

Gayle P. Porter
 Gayle Porter, Chemist

03/14/2000
 Date

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