

JADW

Exhibits

Synergy Comments
NW New Mexico Data Summary

Samples Thwest New Mexico	SOILS										FLUIDS (Liquids)									
	Soil		Soil		Soil		Soil		Soil		Water		Water		Water		Water		Water	
	Production Pit	Reserve Pit	Production Pit	Reserve Pit	Production Pit	Reserve Pit	Production Pit	Reserve Pit	Production Pit	Reserve Pit	Production Pit	Reserve Pit	Production Pit	Reserve Pit	Production Pit	Reserve Pit	Production Pit	Reserve Pit	Production Pit	Reserve Pit
PP3-01	848	1280	DP3-03	957	DP3-08	1280	DP3-09 (duplicate)	598	T3-01	385	DP-3-06	277	DP-3-07 (duplicate)	419	DP3-02	10.2	DP3-04	329	DP3-05	84.8
Sec 22-T25NR11W	<50	184	Sec 36-T31NR8W	116	Sec 9 - T26NR11W	140	Sec 9 - T26NR11W	<50.0	Sec 11-T26NR04W	18.6	Sec 5 - T26NR4W	534	Sec 5 - T26NR4W	479	Sec 14-T31NR9W	13.9	Sec 20-T30NR10W	325	Sec 3-T26NR4W	30.4
Galloway Cannon # 10	622	148	Devon - NEBU # 346	75.3	XTO - Randel # 13	9.67	XTO - Randel # 13	12.2	BHGR 29-4-11 # 34-H	0.713	Palina-Hoyt # 1C	31.3	Palina-Hoyt # 1C	88.4	Koch Seymour 718S	13.1	COPC - Gage 3F	61.3	CDX - Apache 102-8F	<5.0
	1220	178	Elmridge EB Coal # 6	1290	XTO - Randel # 13	482	XTO - Randel # 13	430		1030		286		286	3310		764		764	
	<10	<10.0		<10.0		<10.0	<10.0	<10.0		39.8		28		26.8	7.19		56.6		30.2	
1990	5290	5290		417		962	927	927		2050		4280		3940	1210		7810		3400	
<25	<2.50	<2.50		32.2		<25.0	<25.0	<25.0		49.3		8.93		8.65	1.73		32.2		11.3	
145	575	575		176		1140	379	379		757		543		557	459		369		11	
0.2	3.53	3.53		0.428		0.42	0.439	0.439		0.0466		0.0193		0.0169	0.000869		0.191		<0.001	
7.96	11.6	11.6		12.2		11.5	11.7	11.7		11		7.33		7.31	9.5		7.55		7.61	
11300	13000	13000		20300		6780	5050	5050		n/a		n/a		n/a	n/a		n/a		n/a	
1580	1510	1510		3190		411	327	327		n/a		n/a		n/a	n/a		n/a		n/a	
1490	695	695		1680		391	360	360		n/a		n/a		n/a	n/a		n/a		n/a	
3460	5290	5290		2900		2080	3270	3270		n/a		n/a		n/a	n/a		n/a		n/a	
342	105	105		157		72.9	70	70		18.6		0.415		0.41	2.26		2.42		0.309	
<0.2	<0.2	<0.2		<0.2		<0.2	<0.2	<0.2		<0.1		<0.002		<0.002	<0.005		<0.005		<0.005	
13.8	5.69	5.69		11.8		3.15	70.2	70.2		1.48		0.12		<0.01	0.191		<0.025		0.038	
0.0793	<0.04	<0.04		<0.04		<0.04	<0.04	<0.04		0.23		<0.00008		<0.00008	<0.00008		<0.0008		<0.0008	
73.4	121	121		15.6		4.31	<1.0	<1.0		1.87		<0.01		<0.01	<0.025		<0.025		<0.025	
<20.0	<20.0	<20.0		44.9		<20.0	<20.0	<20.0		<100		23.3		22.7	<100		190		<10.0	
32.5	71.1	71.1		395		24.8	24.4	24.4		<50		<50		<50	<100		160		<10.0	
464	156	156		1010		75	75.2	75.2		118		494		565	<100		1730		13.1	
637	102	102		397		49.5	45.7	45.7		<100		118		136	<100		400		<10.0	
16200	1540	1540		545		234	22	22		<100		146		182	<100		554		<10.0	
5050	1110	1110		1710		115	67.8	67.8		<100		247		305	<100		946		<10.0	
Not performed	Not performed	Not performed		Not performed		Not performed	Not performed	Not performed		670		247		229	3.97		425		142	
Not performed	Not performed	Not performed		Not performed		Not performed	Not performed	Not performed		23.3		39.6		37	10.8		53.9		22.3	
Not performed	Not performed	Not performed		Not performed		Not performed	Not performed	Not performed		64.1		1780		1830	51		3510		1700	
Not performed	Not performed	Not performed		Not performed		Not performed	Not performed	Not performed		2330		2130		2170	2780		4540		2150	
Not performed	Not performed	Not performed		Not performed		Not performed	Not performed	Not performed		17200		8000		7860	6135		16800		8170	

Summary Spreadsheet of Data on Public Samples
NMOCD Pit Hearing - Samples from Northwest New Mexico
Compiled by Tom Mullins by hand.
I apologize for any errors as I could not transfer the data electronically.

1 Kg water = 1 Litre water (1.0 density)

SOILS										FLUIDS (Liquids)													
Item	Units	Production Pit	Soil	DP03-10	Soil	DP3-03	Soil	DP3-08	Soil	DP3-09 (duplicate)	Soil	T3-01	Water	DP-3-06	Water	DP-3-07 (duplicate)	Water	DP3-02	Water	DP3-04	Water	DP3-05	
TPH (TPH CRO) C6-C12	mg/l	848	1280	957	1280	957	1280	140	9.67	12.2	12.2	18.6	534	31.3	88.4	479	30.4	325	61.3	325	30.4	325	61.3
TPH (TPH GRO) C6-C12	mg/l	622	148	75.3	148	75.3	148	9.67	12.2	12.2	12.2	0.713	31.3	88.4	479	30.4	325	61.3	325	30.4	325	61.3	
Total Alkalinity	mg/l	1220	178	1290	430	1290	430	962	1140	379	379	0.466	0.0193	7.33	9.5	7.31	7.55	7.61	7.61	7.55	7.61	7.61	
Bromide	mg/l	<10	<1.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	18.6	0.415	<0.002	<0.00008	<0.01	<0.025	<0.0008	<0.0008	<0.025	<0.0008	<0.025	
Chloride	mg/l	1990	5290	417	927	927	927	962	1140	379	379	0.428	0.439	7.33	9.5	7.31	7.55	7.61	7.61	7.55	7.61	7.61	
Fluoride	mg/l	<25	<2.50	32.2	<25.0	32.2	<25.0	962	1140	379	379	0.428	0.439	7.33	9.5	7.31	7.55	7.61	7.61	7.55	7.61	7.61	
Sulfate	mg/l	145	575	176	1140	176	1140	962	1140	379	379	0.428	0.439	7.33	9.5	7.31	7.55	7.61	7.61	7.55	7.61	7.61	
Naphthalene	mg/l	0.2	3.53	12.2	11.5	12.2	11.5	9.67	12.2	12.2	12.2	0.428	0.439	7.33	9.5	7.31	7.55	7.61	7.61	7.55	7.61	7.61	
pH	mg/l	7.96	11.6	20300	6780	20300	6780	9.67	12.2	12.2	12.2	0.428	0.439	7.33	9.5	7.31	7.55	7.61	7.61	7.55	7.61	7.61	
Total Calcium	mg/l	11300	13000	3190	411	3190	411	9.67	12.2	12.2	12.2	0.428	0.439	7.33	9.5	7.31	7.55	7.61	7.61	7.55	7.61	7.61	
Total Mg	mg/l	1580	1510	1680	391	1680	391	9.67	12.2	12.2	12.2	0.428	0.439	7.33	9.5	7.31	7.55	7.61	7.61	7.55	7.61	7.61	
Total K	mg/l	1490	685	2900	72.9	2900	72.9	9.67	12.2	12.2	12.2	0.428	0.439	7.33	9.5	7.31	7.55	7.61	7.61	7.55	7.61	7.61	
Total Na	mg/l	342	105	157	<0.2	157	<0.2	9.67	12.2	12.2	12.2	0.428	0.439	7.33	9.5	7.31	7.55	7.61	7.61	7.55	7.61	7.61	
Total Barium	mg/l	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	9.67	12.2	12.2	12.2	0.428	0.439	7.33	9.5	7.31	7.55	7.61	7.61	7.55	7.61	7.61	
Total Cadmium	mg/l	13.8	5.69	11.8	3.15	11.8	3.15	9.67	12.2	12.2	12.2	0.428	0.439	7.33	9.5	7.31	7.55	7.61	7.61	7.55	7.61	7.61	
Total Chromium	mg/l	0.0793	<0.04	<0.04	<0.04	<0.04	<0.04	9.67	12.2	12.2	12.2	0.428	0.439	7.33	9.5	7.31	7.55	7.61	7.61	7.55	7.61	7.61	
Total Mercury	mg/l	73.4	121	15.6	4.31	15.6	4.31	9.67	12.2	12.2	12.2	0.428	0.439	7.33	9.5	7.31	7.55	7.61	7.61	7.55	7.61	7.61	
Total Lead	mg/l	<20.0	<20.0	44.9	<20.0	44.9	<20.0	9.67	12.2	12.2	12.2	0.428	0.439	7.33	9.5	7.31	7.55	7.61	7.61	7.55	7.61	7.61	
Benzene	mic gr/l	32.5	71.1	395	24.8	395	24.8	9.67	12.2	12.2	12.2	0.428	0.439	7.33	9.5	7.31	7.55	7.61	7.61	7.55	7.61	7.61	
Ethyl-benzene	mic gr/l	464	156	1010	75	1010	75	9.67	12.2	12.2	12.2	0.428	0.439	7.33	9.5	7.31	7.55	7.61	7.61	7.55	7.61	7.61	
m,p-Xylene	mic gr/l	637	102	397	49.5	397	49.5	9.67	12.2	12.2	12.2	0.428	0.439	7.33	9.5	7.31	7.55	7.61	7.61	7.55	7.61	7.61	
o-Xylene	mic gr/l	16200	1540	545	234	545	234	9.67	12.2	12.2	12.2	0.428	0.439	7.33	9.5	7.31	7.55	7.61	7.61	7.55	7.61	7.61	
Tri-Methyl-benzene135	mic gr/l	5050	1110	1710	115	1710	115	9.67	12.2	12.2	12.2	0.428	0.439	7.33	9.5	7.31	7.55	7.61	7.61	7.55	7.61	7.61	
Tri-Methyl-benzene124	mic gr/l	Not performed	Not performed	Not performed	Not performed	Not performed	Not performed	9.67	12.2	12.2	12.2	0.428	0.439	7.33	9.5	7.31	7.55	7.61	7.61	7.55	7.61	7.61	
Dissolved Calcium	mg/l	Not performed	Not performed	Not performed	Not performed	Not performed	Not performed	9.67	12.2	12.2	12.2	0.428	0.439	7.33	9.5	7.31	7.55	7.61	7.61	7.55	7.61	7.61	
Dissolved Mg	mg/l	Not performed	Not performed	Not performed	Not performed	Not performed	Not performed	9.67	12.2	12.2	12.2	0.428	0.439	7.33	9.5	7.31	7.55	7.61	7.61	7.55	7.61	7.61	
Dissolved K	mg/l	Not performed	Not performed	Not performed	Not performed	Not performed	Not performed	9.67	12.2	12.2	12.2	0.428	0.439	7.33	9.5	7.31	7.55	7.61	7.61	7.55	7.61	7.61	
Dissolved Na	mg/l	Not performed	Not performed	Not performed	Not performed	Not performed	Not performed	9.67	12.2	12.2	12.2	0.428	0.439	7.33	9.5	7.31	7.55	7.61	7.61	7.55	7.61	7.61	
Total Dissolved Solids	mg/l	Not performed	Not performed	Not performed	Not performed	Not performed	Not performed	9.67	12.2	12.2	12.2	0.428	0.439	7.33	9.5	7.31	7.55	7.61	7.61	7.55	7.61	7.61	

Summarized by TEM on 10-27-2007
For discussion purposes only

Exhibit 6

J/AM



MATERIAL SAFETY DATA SHEET

MSDS NO. 10618

Trade Name: MAX GEL*

Revision Date: 12/17/2004

Trade Name: MAX GEL*
Chemical Family: Mixture
Product Use: Oil well drilling fluid additive.
Emergency Telephone (24 hr.): 281-561-1600

Supplied by: M-I HDD MINING & WATERWELL
A Business Unit of M-I L.L.C.
P.O. Box 42842
Houston, TX 77242
www.drilling-fluids.com

Telephone Number: 281-561-1512
Contact Person: Joanne Galvan, Product Safety Specialist

Revision Number: 4

HMIS Rating

Health: 1* Flammability: 0 Physical Hazard: 0 PPE: E

HMIS Key: 4=Severe, 3=Serious, 2=Moderate, 1=Slight, 0=Minimal Hazard. *Chronic effects - See Section 11. See Section 8 for Personal Protective Equipment recommendations.

Emergency Overview: Caution! May cause eye, skin, and respiratory tract irritation. Long term inhalation of particulates may cause lung damage. Cancer hazard. Contains crystalline silica which may cause cancer.

Canadian Classification:
UN PIN No: Not regulated

WHMIS Class: D2A

Physical State: Powder Odor: Odorless Color: Tan to grey

Potential Health Effects:

Acute Effects

Eye Contact: May cause mechanical irritation
Skin Contact: May cause mechanical irritation. Long term contact can cause skin dryness.
Inhalation: May cause mechanical irritation.
Ingestion: May cause gastric distress, nausea and vomiting if ingested.

Carcinogenicity & Chronic Effects:

See Section 11 - Toxicological Information.

Routes of Exposure:

Eyes. Dermal (skin) contact. Inhalation.

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