

FORM
4
Rev 12/05

State of Colorado

Oil and Gas Conservation Commission

1120 Lincoln Street, Suite 801, Denver, Colorado 80203 Phone: (303)894-2100 Fax: (303)894-2109



SUNDRY NOTICE

Submit original plus one copy. This form is to be used for general, technical and environmental sundry information. For proposed or completed operations, describe in full on Technical Information Page (Page 2 of this form.) Identify well or other facility by API Number or by OGCC Facility ID. Operator shall send an informational copy of all sundry notices for wells located in High Density Areas to the Local Government Designee (Rule 603b.)

1. OGCC Operator Number: 66571	4. Contact Name: Daniel I. Padilla	Complete the Attachment Checklist OP OGCC
2. Name of Operator: OXY USA WTP LP	Phone: (970) 263-3637	
3. Address: 760 Horizon Drive City: Grand Junction State: CO Zip: 81506	Fax: (970) 263-3694	
5. API Number 05-	OGCC Facility ID Number 291946	Survey Plat
6. Well/Facility Name: Pond 10 South	7. Well/Facility Number 105	Directional Survey
8. Location (Qtr/Qtr, Sec, Twp, Rng, Meridian): SESW, Section 5, T7S, R97W, 6th PM		Surface Eqpmt Diagram
9. County: Garfield	10. Field Name: Grand Valley	Technical Info Page
11. Federal, Indian or State Lease Number:		Other

General Notice

<input type="checkbox"/> CHANGE OF LOCATION: Attach New Survey Plat (a change of surface qtr/qtr is substantive and requires a new permit)																	
Change of Surface Footage from Exterior Section Lines:	<table border="1"> <tr> <td></td> <td>FNL/FSL</td> <td></td> <td>FEL/FWL</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> </tr> </table>		FNL/FSL		FEL/FWL												
	FNL/FSL		FEL/FWL														
Change of Surface Footage to Exterior Section Lines:																	
Change of Bottomhole Footage from Exterior Section Lines:																	
Change of Bottomhole Footage to Exterior Section Lines:																	
Bottomhole location Qtr/Qtr, Sec, Twp, Rng, Mer																	
Latitude	Distance to nearest property line																
Longitude	Distance to nearest bldg, public rd, utility or RR																
Ground Elevation	Distance to nearest lease line																
	Is location in a High Density Area (rule 603b)? Yes/No																
	Distance to nearest well same formation																
	Surface owner consultation date:																
GPS DATA:																	
Date of Measurement	PDOP Reading																
	Instrument Operator's Name																
<input type="checkbox"/> CHANGE SPACING UNIT																	
Formation	Formation Code																
Spacing order number	Unit Acreage																
	Unit configuration																
<input type="checkbox"/> Remove from surface bond Signed surface use agreement attached																	
<input type="checkbox"/> CHANGE OF OPERATOR (prior to drilling): Effective Date: _____ Plugging Bond: <input type="checkbox"/> Blanket <input type="checkbox"/> Individual																	
<input type="checkbox"/> CHANGE WELL NAME From: _____ To: _____ Effective Date: _____																	
<input type="checkbox"/> ABANDONED LOCATION: Was location ever built? <input type="checkbox"/> Yes <input type="checkbox"/> No Is site ready for inspection? <input type="checkbox"/> Yes <input type="checkbox"/> No Date Ready for Inspection: _____																	
<input type="checkbox"/> NOTICE OF CONTINUED SHUT IN STATUS Date well shut in or temporarily abandoned: _____ Has Production Equipment been removed from site? <input type="checkbox"/> Yes <input type="checkbox"/> No MIT required if shut in longer than two years. Date of last MIT: _____																	
<input type="checkbox"/> SPUD DATE: _____																	
<input type="checkbox"/> REQUEST FOR CONFIDENTIAL STATUS (6 mos from date casing set)																	
<input type="checkbox"/> SUBSEQUENT REPORT OF STAGE, SQUEEZE OR REMEDIAL CEMENT WORK Method used Cementing tool setting/perf depth Cement volume Cement top Cement bottom Date *submit cbl and cement job summaries																	
<input type="checkbox"/> RECLAMATION: Attach technical page describing final reclamation procedures per Rule 1004. Final reclamation will commence on approximately _____ <input type="checkbox"/> Final reclamation is completed and site is ready for inspection.																	

Technical Engineering/Environmental Notice

<input type="checkbox"/> Notice of Intent Approximate Start Date: _____		<input type="checkbox"/> Report of Work Done Date Work Completed: _____	
Details of work must be described in full on Technical Information Page (Page 2 must be submitted.)			
<input type="checkbox"/> Intent to Recomplete (submit form 2)	<input type="checkbox"/> Request to Vent or Flare	<input type="checkbox"/> E&P Waste Disposal	
<input type="checkbox"/> Change Drilling Plans	<input type="checkbox"/> Repair Well	<input checked="" type="checkbox"/> Beneficial Reuse of E&P Waste	
<input type="checkbox"/> Gross Interval Changed?	<input type="checkbox"/> Rule 502 variance requested	<input type="checkbox"/> Status Update/Change of Remediation Plans	
<input type="checkbox"/> Casing/Cementing Program Change	<input type="checkbox"/> Other: _____	for Spills and Releases	

I hereby certify that the statements made in this form are, to the best of my knowledge, true, correct and complete.

Signed: Daniel I. Padilla Date: 11/1/10 Email: daniel_padilla@oxy.com
Print Name: Daniel I. Padilla Title: Regulatory Advisor

COGCC Approved: _____ Title: _____ Date: _____

CONDITIONS OF APPROVAL, IF ANY:

TECHNICAL INFORMATION PAGE



FOR OGCC USE ONLY

1. OGCC Operator Number: 66571 API Number:
2. Name of Operator: OXY USA WTP LP OGCC Facility ID # 291946
3. Well/Facility Name: Pond 10 South Well/Facility Number: 10S
4. Location (QtrQtr, Sec, Twp, Rng, Meridian): SESW, Section 5, T7S, R97W, 6th PM

This form is to be completed whenever a Sundry Notice is submitted requiring detailed report of work to be performed or completed. This form shall be transmitted within 30 days of work completed as a "subsequent" report and must accompany Form 4, page 1.

5. **DESCRIBE PROPOSED OR COMPLETED OPERATIONS**

OXY USA WTP LP (Oxy) proposes to utilize produced water generated from its Collbran operations for fracing activities located in its Cascade Creek operations. Produced water will be transferred from all wells found on the included Form 26 - Source of Produced Water to Oxy's Pond 10 South location (Grand Valley). Oxy anticipates transporting upto a total of 500,000 bbls of produced water from all wells cumulatively outlined in the Form 26, occurring between November 2010 and December 2012. From Pond 10 South, the produced water will be transported by way of pipeline to Oxy's fracing locations where it will be utilized for hydraulic fracture operations.

Oxy anticipates this activity will be temporary in nature to support fracing activities in Oxy's Grand Valley and Grand Mesa operating areas, until Oxy can build a sufficient inventory to support fracing activities.

FORM

26

Rev 6/99

State of Colorado
Oil and Gas Conservation Commission



1120 Lincoln Street, Suite 801, Denver, Colorado 80203 (303)894-2100 Fax:(303)894-2109

FOR OGCC USE ONLY

SOURCE OF PRODUCED WATER FOR DISPOSAL

This form must be completed for any new disposal site and for any change in sources of produced water for an existing disposal site.

Complete the
Attachment Checklist

OGCC Operator Number: 66571	Contact Name and Telephone:
Name of Operator: OXY USA WTP LP	Daniel Padilla
Address: 760 Horizon Drive	No: (970) 263-3637
City: Grand Junction State: CO Zip: 81506	Fax: (970) 263-3694

OGCC Disposal Facility Number:	Operator's Disposal Facility Number: 291946
Operator's Disposal Facility Name: Pond 10 South	
Location (QtrQtr, Sec, Twp, Rng, Meridian): SWSE, Section 5, T7S, R97W, 6th PM	
Address: N/A	
City:	State: Zip: County: Garfield

	Oper	OGCC
Chemical Analysis of fluid	X	

If more space is required,
attach additional sheet.

Add Source: OGCC Lease No: API No: See Attached Well Name & No: See Attached
☒ Operator Name: See Attached Operator No: See Attached

Delete Source: Location: QtrQtr: Section: Township: Range: Producing Formation: MVRD
☐ Analysis Attached? ☐ Yes ☒ No Transported to disposal site via: ☐ Pipeline ☒ Truck TDS:

Add Source: OGCC Lease No: API No: Well Name & No:
☐ Operator Name: Operator No:

Delete Source: Location: QtrQtr: Section: Township: Range: Producing Formation:
☐ Analysis Attached? ☐ Yes ☐ No Transported to disposal site via: ☐ Pipeline ☐ Truck TDS:

Add Source: OGCC Lease No: API No: Well Name & No:
☐ Operator Name: Operator No:

Delete Source: Location: QtrQtr: Section: Township: Range: Producing Formation:
☐ Analysis Attached? ☐ Yes ☐ No Transported to disposal site via: ☐ Pipeline ☐ Truck TDS:

Add Source: OGCC Lease No: API No: Well Name & No:
☐ Operator Name: Operator No:

Delete Source: Location: QtrQtr: Section: Township: Range: Producing Formation:
☐ Analysis Attached? ☐ Yes ☐ No Transported to disposal site via: ☐ Pipeline ☐ Truck TDS:

Add Source: OGCC Lease No: API No: Well Name & No:
☐ Operator Name: Operator No:

Delete Source: Location: QtrQtr: Section: Township: Range: Producing Formation:
☐ Analysis Attached? ☐ Yes ☐ No Transported to disposal site via: ☐ Pipeline ☐ Truck TDS:

Add Source: OGCC Lease No: API No: Well Name & No:
☐ Operator Name: Operator No:

Delete Source: Location: QtrQtr: Section: Township: Range: Producing Formation:
☐ Analysis Attached? ☐ Yes ☐ No Transported to disposal site via: ☐ Pipeline ☐ Truck TDS:

I hereby certify that the statements made in this form are, to the best of my knowledge, true, correct, and complete.

Print Name: Daniel I. Padilla

Signed: [Signature]

Title: Regulatory Advisor

Date: 11/1/10

OGCC Approved: Title: Date:

CONDITIONS OF APPROVAL, IF ANY:

WELL PAD	API NUMBER	WELL NAME	LOCATION	TRANSPORTED VIA?
BLACKMAN 14-12	05-077-08972	Blackman 14-5	NWSW, Sec 14, T9S, R94W, 6th PM	Truck
	05-077-08971	Blackman 14-6	NWSW, Sec 14, T9S, R94W, 6th PM	Truck
	05-077-08970	Blackman 14-12	NWSW, Sec 14, T9S, R94W, 6th PM	Truck
	05-077-08969	Blackman 14-13	NWSW, Sec 14, T9S, R94W, 6th PM	Truck
	05-077-08968	Blackman 14-14	NWSW, Sec 14, T9S, R94W, 6th PM	Truck
	05-077-09005	Blackman 15-8	NWSW, Sec 14, T9S, R94W, 6th PM	Truck
	05-077-09004	Blackman 15-9	NWSW, Sec 14, T9S, R94W, 6th PM	Truck
	05-077-08987	Blackman 22-1	NWSW, Sec 14, T9S, R94W, 6th PM	Truck
	05-077-08986	Blackman 23-3	NWSW, Sec 14, T9S, R94W, 6th PM	Truck
	05-077-08985	Blackman 23-4	NWSW, Sec 14, T9S, R94W, 6th PM	Truck
BRUSH CREEK RANCH 14-10	05-077-08841	Brush Creek 14-16	NWSE, Sec 14, T9S, R94W, 6th PM	Truck
CURREY 16-10	05-077-09175	Currey 16-2	NWSE, Sec 16, T9S, R94W, 6th PM	Truck
	05-077-09546	Currey 16-7B	NWSE, Sec 16, T9S, R94W, 6th PM	Truck
	05-077-09176	Currey 16-9	NWSE, Sec 16, T9S, R94W, 6th PM	Truck
CURREY 16-14	05-077-09198	Currey 16-11	SESW Sec 16, T9S, R94W, 6th PM	Truck
	05-077-09199	Currey 16-14	SESW Sec 16, T9S, R94W, 6th PM	Truck
	05-077-09200	Currey 16-15	SESW Sec 16, T9S, R94W, 6th PM	Truck
	05-077-09469	Currey 16-15A	SESW Sec 16, T9S, R94W, 6th PM	Truck
	05-077-09479	Currey 16-15B	SESW Sec 16, T9S, R94W, 6th PM	Truck
	05-077-09477	Currey 16-15C	SESW Sec 16, T9S, R94W, 6th PM	Truck
	05-077-09201	Currey 21-2	SESW Sec 16, T9S, R94W, 6th PM	Truck
	05-077-09478	Currey 21-2A	SESW Sec 16, T9S, R94W, 6th PM	Truck

WELL PAD	API NUMBER	WELL NAME	LOCATION	TRANSPORTED VIA?
CURRIER 26-15	05-077-09102	Currier 25-13	SWSE, Sec 26, T9S, R94W, 6th PM	Truck
	05-077-09098	Currier 26-10	SWSE, Sec 26, T9S, R94W, 6th PM	Truck
	05-077-09095	Currier 26-15	SWSE, Sec 26, T9S, R94W, 6th PM	Truck
	05-077-09096	Currier 26-16	SWSE, Sec 26, T9S, R94W, 6th PM	Truck
	05-077-09099	Currier 26-9C	SWSE, Sec 26, T9S, R94W, 6th PM	Truck
	05-077-09101	Currier 35-1	SWSE, Sec 26, T9S, R94W, 6th PM	Truck
	05-077-09103	Currier 35-3	SWSE, Sec 26, T9S, R94W, 6th PM	Truck
	05-077-09104	Currier 36-4	SWSE, Sec 26, T9S, R94W, 6th PM	Truck
DAVID 23-7	05-077-09203	David 23-1	SWNE, Sec 23, T9S, R94W, 6 th PM	Truck
	05-077-09185	David 23-2	SWNE, Sec 23, T9S, R94W, 6 th PM	Truck
	05-077-09189	David 23-5	SWNE, Sec 23, T9S, R94W, 6 th PM	Truck
	05-077-09184	David 23-6	SWNE, Sec 23, T9S, R94W, 6 th PM	Truck
	05-077-09188	David 23-7	SWNE, Sec 23, T9S, R94W, 6 th PM	Truck
	05-077-09455	David 23-7A	SWNE, Sec 23, T9S, R94W, 6 th PM	Truck
	05-077-09454	David 23-7B	SWNE, Sec 23, T9S, R94W, 6 th PM	Truck
	05-077-09453	David 23-7C	SWNE, Sec 23, T9S, R94W, 6 th PM	Truck
	05-077-09205	David 23-9	SWNE, Sec 23, T9S, R94W, 6 th PM	Truck
	05-077-09187	David 23-10	SWNE, Sec 23, T9S, R94W, 6 th PM	Truck
	05-077-09186	David 23-11	SWNE, Sec 23, T9S, R94W, 6 th PM	Truck
	05-077-09206	David 23-12	SWNE, Sec 23, T9S, R94W, 6 th PM	Truck
	05-077-09207	David FED 23-15	SWNE, Sec 23, T9S, R94W, 6 th PM	Truck
GIPP 13-9	05-077-09039	Gipp 13-7	NESE, Sec 13, T9S, R94W, 6th PM	Truck
	05-077-09034	Gipp 13-8	NESE, Sec 13, T9S, R94W, 6th PM	Truck
	05-077-09035	Gipp 13-9	NESE, Sec 13, T9S, R94W, 6th PM	Truck
	05-077-09040	Gipp 13-10	NESE, Sec 13, T9S, R94W, 6th PM	Truck
	05-077-09041	Gipp 13-15	NESE, Sec 13, T9S, R94W, 6th PM	Truck
	05-077-09036	Gipp 13-16	NESE, Sec 13, T9S, R94W, 6th PM	Truck

WELL PAD	API NUMBER	WELL NAME	LOCATION	TRANSPORTED VIA?
GIPP 18-12	05-077-09587	Gipp 18-12C	NWSW, Sec 18, T9S, R93W, 6th PM	Truck
	05-077-09591	Gipp 18-13A	NWSW, Sec 18, T9S, R93W, 6th PM	Truck
	05-077-09593	Gipp 18-13B	NWSW, Sec 18, T9S, R93W, 6th PM	Truck
	05-077-09675	Gipp 18-13C	NWSW, Sec 18, T9S, R93W, 6th PM	Truck
	05-077-09585	Gipp 18-14	NWSW, Sec 18, T9S, R93W, 6th PM	Truck
	05-077-09580	Gipp 18-14B	NWSW, Sec 18, T9S, R93W, 6th PM	Truck
	05-077-09674	Gipp 18-14C	NWSW, Sec 18, T9S, R93W, 6th PM	Truck
GRIFFITH 11-2	05-077-08833	Griffith 11-1	NWNE, Sec 11, T9S, R94W, 6th PM	Truck
	05-077-09680	Griffith 11-1A	NWNE, Sec 11, T9S, R94W, 6th PM	Truck
	05-077-09481	Griffith 11-1B	NWNE, Sec 11, T9S, R94W, 6th PM	Truck
	05-077-09480	Griffith 11-1C	NWNE, Sec 11, T9S, R94W, 6th PM	Truck
	05-077-08834	Griffith 11-2	NWNE, Sec 11, T9S, R94W, 6th PM	Truck
	05-077-09681	Griffith 11-2A	NWNE, Sec 11, T9S, R94W, 6th PM	Truck
	05-077-09679	Griffith 11-2B	NWNE, Sec 11, T9S, R94W, 6th PM	Truck
	05-077-09678	Griffith 11-2C	NWNE, Sec 11, T9S, R94W, 6th PM	Truck
	05-077-08835	Griffith 11-7	NWNE, Sec 11, T9S, R94W, 6th PM	Truck
	05-077-09676	Griffith 11-7A	NWNE, Sec 11, T9S, R94W, 6th PM	Truck
	05-077-09677	Griffith 11-7B	NWNE, Sec 11, T9S, R94W, 6th PM	Truck
	05-077-09682	Griffith 11-7C	NWNE, Sec 11, T9S, R94W, 6th PM	Truck
	05-077-09512	Griffith 11-8A	NWNE, Sec 11, T9S, R94W, 6th PM	Truck
GRIFFITH 14-2	05-077-08573	Griffith 14-2	NEWNE, Sec 14, T9S, R94W, 6th PM	Truck

WELL PAD	API NUMBER	WELL NAME	LOCATION	TRANSPORTED VIA?
MCDANIEL 2-1	05-077-09257	McDaniel Federal 1-4.5	NENE, Sec 2, T9S, R94W, 6th PM	Truck
	05-077-08938	McDaniel 2-1	NENE, Sec 2, T9S, R94W, 6th PM	Truck
	05-077-09341	McDaniel 2-1A	NENE, Sec 2, T9S, R94W, 6th PM	Truck
	05-077-09340	McDaniel 2-1B	NENE, Sec 2, T9S, R94W, 6th PM	Truck
	05-077-09342	McDaniel 2-1C	NENE, Sec 2, T9S, R94W, 6th PM	Truck
	05-077-09343	McDaniel 2-2A	NENE, Sec 2, T9S, R94W, 6th PM	Truck
	05-077-09344	McDaniel 2-2B	NENE, Sec 2, T9S, R94W, 6th PM	Truck
	05-077-09345	McDaniel 2-2C	NENE, Sec 2, T9S, R94W, 6th PM	Truck
	05-077-08936	McDaniel 2-7	NENE, Sec 2, T9S, R94W, 6th PM	Truck
	05-077-09349	McDaniel 2-7A	NENE, Sec 2, T9S, R94W, 6th PM	Truck
	05-077-09348	McDaniel 2-7B	NENE, Sec 2, T9S, R94W, 6th PM	Truck
	05-077-08935	McDaniel 2-8	NENE, Sec 2, T9S, R94W, 6th PM	Truck
	05-077-09378	McDaniel 2-8C	NENE, Sec 2, T9S, R94W, 6th PM	Truck
MCDANIEL 2-3	05-077-08911	McDaniel 2-3	NENW, Sec 2, T9S, R94W, 6th PM	Truck
	05-077-08910	McDaniel 2-4	NENW, Sec 2, T9S, R94W, 6th PM	Truck
	05-077-08908	McDaniel 2-6	NENW, Sec 2, T9S, R94W, 6th PM	Truck
MCDANIEL 2-9	05-077-08906	McDaniel 2-9	NESE, Sec 2, T9S, R94W, 6th PM	Truck
	05-077-09410	McDaniel 2-9B	NESE, Sec 2, T9S, R94W, 6th PM	Truck
	05-077-09411	McDaniel 2-9C	NESE, Sec 2, T9S, R94W, 6th PM	Truck
	05-077-08904	McDaniel 2-10	NESE, Sec 2, T9S, R94W, 6th PM	Truck
	05-077-09412	McDaniel 2-10A	NESE, Sec 2, T9S, R94W, 6th PM	Truck
	05-077-09413	McDaniel 2-10B	NESE, Sec 2, T9S, R94W, 6th PM	Truck
	05-077-09414	McDaniel 2-10C	NESE, Sec 2, T9S, R94W, 6th PM	Truck
	05-077-09409	McDaniel 2-15C	NESE, Sec 2, T9S, R94W, 6th PM	Truck
	05-077-08903	McDaniel 2-16	NESE, Sec 2, T9S, R94W, 6th PM	Truck
	05-077-09404	McDaniel 2-16A	NESE, Sec 2, T9S, R94W, 6th PM	Truck
	05-077-09405	McDaniel 2-16B	NESE, Sec 2, T9S, R94W, 6th PM	Truck
	05-077-09406	McDaniel 2-16C	NESE, Sec 2, T9S, R94W, 6th PM	Truck

WELL PAD	API NUMBER	WELL NAME	LOCATION	TRANSPORTED VIA?
MCDANIEL 2-11	05-077-19074	McDaniel 2-11	NESW, Sec 2, T9S, R94W, 6th PM	Truck
	05-077-09072	McDaniel Federal 2-13	NESW, Sec 2, T9S, R94W, 6th PM	Truck
	05-077-09073	McDaniel Federal 2-14	NESW, Sec 2, T9S, R94W, 6th PM	Truck
	05-077-09120	McDaniel Federal 11-4	NESW, Sec 2, T9S, R94W, 6th PM	Truck
	05-077-09121	McDaniel Federal 11-3	NESW, Sec 2, T9S, R94W, 6th PM	Truck
MCDANIEL 11-10	05-077-09709	McDaniel 11-9A	NWSE, Sec 11, T9S, R94W, 6th PM	Truck
	05-077-09655	McDaniel 11-9B	NWSE, Sec 11, T9S, R94W, 6th PM	Truck
	05-077-09654	McDaniel 11-9C	NWSE, Sec 11, T9S, R94W, 6th PM	Truck
	05-077-08566	McDaniel 11-10	NWSE, Sec 11, T9S, R94W, 6th PM	Truck
	05-077-09649	McDaniel 11-10A	NWSE, Sec 11, T9S, R94W, 6th PM	Truck
	05-077-09646	McDaniel 11-10B	NWSE, Sec 11, T9S, R94W, 6th PM	Truck
	05-077-09650	McDaniel 11-10C	NWSE, Sec 11, T9S, R94W, 6th PM	Truck
	05-077-09652	McDaniel 11-16A	NWSE, Sec 11, T9S, R94W, 6th PM	Truck
MCDANIEL 11-11	05-077-09112	McDaniel Federal 11-5	SESW, Sec 11, T9S, R94W, 6th PM	Truck
	05-077-09113	McDaniel Federal 11-6	SESW, Sec 11, T9S, R94W, 6th PM	Truck
	05-077-09110	McDaniel 11-11	SESW, Sec 11, T9S, R94W, 6th PM	Truck
	05-077-09114	McDaniel Federal 11-12	SESW, Sec 11, T9S, R94W, 6th PM	Truck
	05-077-09559	McDaniel Federal 11-12C	SESW, Sec 11, T9S, R94W, 6th PM	Truck
	05-077-09111	McDaniel Federal 11-13	SESW, Sec 11, T9S, R94W, 6th PM	Truck
	05-077-09560	McDaniel Federal 11-13C	SESW, Sec 11, T9S, R94W, 6th PM	Truck
	05-077-09502	McDaniel Federal 11-14B	SESW, Sec 11, T9S, R94W, 6th PM	Truck
MCDANIEL 14-1	05-077-08957	McDaniel 11-15	NENE, Sec 14, T9S, R94W, 6th PM	Truck
	05-077-08905	McDaniel 13-4	NENE, Sec 14, T9S, R94W, 6th PM	Truck
	05-077-08907	McDaniel 14-1	NENE, Sec 14, T9S, R94W, 6th PM	Truck
	05-077-08883	McDaniel 14-7	NENE, Sec 14, T9S, R94W, 6th PM	Truck
	05-077-08882	McDaniel 14-8	NENE, Sec 14, T9S, R94W, 6th PM	Truck

WELL PAD	API NUMBER	WELL NAME	LOCATION	TRANSPORTED VIA?
MCDANIEL 14-3	05-077-09118	McDaniel 11-14	NENW, Sec 14, T9S, R94W, 6th PM	Truck
	05-077-09606	McDaniel 11-14C	NENW, Sec 14, T9S, R94W, 6th PM	Truck
	05-077-09116	McDaniel 14-3	NENW, Sec 14, T9S, R94W, 6th PM	Truck
	05-077-09600	McDaniel 14-3A	NENW, Sec 14, T9S, R94W, 6th PM	Truck
	05-077-09599	McDaniel 14-3B	NENW, Sec 14, T9S, R94W, 6th PM	Truck
	05-077-09601	McDaniel 14-3C	NENW, Sec 14, T9S, R94W, 6th PM	Truck
	05-077-09115	McDaniel 14-4	NENW, Sec 14, T9S, R94W, 6th PM	Truck
	05-077-09605	McDaniel 14-4A	NENW, Sec 14, T9S, R94W, 6th PM	Truck
	05-077-09604	McDaniel 14-4B	NENW, Sec 14, T9S, R94W, 6th PM	Truck
	05-077-09603	McDaniel 14-4C	NENW, Sec 14, T9S, R94W, 6th PM	Truck
	05-077-09602	McDaniel 14-5A	NENW, Sec 14, T9S, R94W, 6th PM	Truck
	05-077-09595	McDaniel 14-6A	NENW, Sec 14, T9S, R94W, 6th PM	Truck
	05-077-09119	McDaniel 15-1	NENW, Sec 14, T9S, R94W, 6th PM	Truck
	05-077-09596	McDaniel 15-1A	NENW, Sec 14, T9S, R94W, 6th PM	Truck
	05-077-09598	McDaniel 15-1C	NENW, Sec 14, T9S, R94W, 6th PM	Truck
MCELWAIN 12-6	05-077-08837	McElwain 12-12	SWNW, Sec 12, T9S, R94W, 6th PM	Truck
NICHOLS 24-6	05-077-09229	Nichols 24-3	SENW, Sec 24, T9s, R94W, 6th PM	Truck
	05-077-09230	Nichols 24-4	SENW, Sec 24, T9s, R94W, 6th PM	Truck
	05-077-09231	Nichols 24-5	SENW, Sec 24, T9s, R94W, 6th PM	Truck
	05-077-09228	Nichols 24-6	SENW, Sec 24, T9s, R94W, 6th PM	Truck
	05-077-09227	Nichols 24-10	SENW, Sec 24, T9s, R94W, 6th PM	Truck
	05-077-09232	Nichols 24-11	SENW, Sec 24, T9s, R94W, 6th PM	Truck
UTE WATER 22-14	05-077-09151	Ute Water 22-10	SESW, Sec 22, T9S, R94W, 6th PM	Truck
	05-077-09149	Ute Water 22-12	SESW, Sec 22, T9S, R94W, 6th PM	Truck
	05-077-09148	Ute Water 22-13	SESW, Sec 22, T9S, R94W, 6th PM	Truck
	05-077-09147	Ute Water 22-14	SESW, Sec 22, T9S, R94W, 6th PM	Truck
	05-077-09146	Ute Water 22-15	SESW, Sec 22, T9S, R94W, 6th PM	Truck
	05-077-09145	Ute Water 27-2	SESW, Sec 22, T9S, R94W, 6th PM	Truck
	05-077-09144	Ute Water 27-3	SESW, Sec 22, T9S, R94W, 6th PM	Truck

WELL PAD	API NUMBER	WELL NAME	LOCATION	TRANSPORTED VIA?
UTE WATER 35-9	05-077-09138	Ute Water 35-9	NESE, Sec 35, T9S, R94W, 6th PM	Truck
	05-077-09141	Ute Water 35-15	NESE, Sec 35, T9S, R94W, 6th PM	Truck
	05-077-09143	Ute Water 35-16	NESE, Sec 35, T9S, R94W, 6th PM	Truck
	05-077-09140	Ute Water 36-5	NESE, Sec 35, T9S, R94W, 6th PM	Truck
	05-077-09137	Ute Water 36-12	NESE, Sec 35, T9S, R94W, 6th PM	Truck
	05-077-09142	Ute Water 36-13	NESE, Sec 35, T9S, R94W, 6th PM	Truck
WOODS SPANGLER 15-13	05-077-09167	Woods Spangler 15-11	SWSW, Sec 15, T9S, R94W, 6th PM	Truck
	05-077-09166	Woods Spangler 15-12	SWSW, Sec 15, T9S, R94W, 6th PM	Truck
	05-077-09165	Woods Spangler 15-13	SWSW, Sec 15, T9S, R94W, 6th PM	Truck
	05-077-09164	Woods Spangler 15-14	SWSW, Sec 15, T9S, R94W, 6th PM	Truck
	05-077-09214	Woods Spangler 16-16	SWSW, Sec 15, T9S, R94W, 6th PM	Truck
	05-077-09163	Woods Spangler 21-1	SWSW, Sec 15, T9S, R94W, 6th PM	Truck
	05-077-09162	Woods Spangler 22-4	SWSW, Sec 15, T9S, R94W, 6th PM	Truck
ANDERSON 7-5	05-077-08463	Anderson #1	SENW, Sec 7, T10S, R94W, 6th PM	Truck
	05-077-09094	Anderson 7-11	SENW, Sec 7, T10S, R94W, 6th PM	Truck
	05-077-09107	Anderson 7-12	SENW, Sec 7, T10S, R94W, 6th PM	Truck
	05-077-09106	Anderson 7-13	SENW, Sec 7, T10S, R94W, 6th PM	Truck
	05-077-09105	Anderson 7-14	SENW, Sec 7, T10S, R94W, 6th PM	Truck
CAMPBELL 18-12	05-077-08992	Campbell 18-11	NESW, Sec 18, T10S, R94W, 6th PM	Truck
	05-077-08993	Campbell 18-13	NESW, Sec 18, T10S, R94W, 6th PM	Truck
	05-077-08994	Campbell 18-14	NESW, Sec 18, T10S, R94W, 6th PM	Truck
ESPERANZA 8-5	05-077-08914	Esperanza Ranch Federal 8-2	SENW, Sec 8, T10S, R94W, 6th PM	Truck
	05-077-08915	Esperanza Ranch Federal 8-3	SENW, Sec 8, T10S, R94W, 6th PM	Truck
	05-077-08913	Esperanza Ranch 8-5	SENW, Sec 8, T10S, R94W, 6th PM	Truck
	05-077-08900	Esperanza Ranch 8-6	SENW, Sec 8, T10S, R94W, 6th PM	Truck
	05-077-08916	Esperanza Ranch Federal 8-7	SENW, Sec 8, T10S, R94W, 6th PM	Truck
	05-077-08912	Esperanza Ranch 8-10	SENW, Sec 8, T10S, R94W, 6th PM	Truck
ESPERANZA 9-5	05-077-08797	Esperanza #2	NENE, Sec 8, T10S, R94W, 6th PM	Truck
	05-077-08977	Esperanza 4-13	NENE, Sec 8, T10S, R94W, 6th PM	Truck
	05-077-08978	Esperanza 8-8	NENE, Sec 8, T10S, R94W, 6th PM	Truck
	05-077-08980	Esperanza 9-4	NENE, Sec 8, T10S, R94W, 6th PM	Truck
	05-077-08974	Esperanza 9-5	NENE, Sec 8, T10S, R94W, 6th PM	Truck

WELL PAD	API NUMBER	WELL NAME	LOCATION	TRANSPORTED VIA?
HAWKINS RANCH 10-4	05-077-09338	Hawkins Ranch 3-13	NWNW, Sec 10. T10S, R94W, 6th PM	Truck
	05-077-09617	Hawkins Ranch 3-13A	NWNW, Sec 10. T10S, R94W, 6th PM	Truck
	05-077-09618	Hawkins Ranch 3-13B	NWNW, Sec 10. T10S, R94W, 6th PM	Truck
	05-077-09619	Hawkins Ranch 3-13C	NWNW, Sec 10. T10S, R94W, 6th PM	Truck
	05-077-09620	Hawkins Ranch 10-2A	NWNW, Sec 10. T10S, R94W, 6th PM	Truck
	05-077-09626	Hawkins Ranch 10-2B	NWNW, Sec 10. T10S, R94W, 6th PM	Truck
	05-077-09622	Hawkins Ranch 10-2C	NWNW, Sec 10. T10S, R94W, 6th PM	Truck
	05-077-09339	Hawkins Ranch 10-3	NWNW, Sec 10. T10S, R94W, 6th PM	Truck
	05-077-09621	Hawkins Ranch 10-3A	NWNW, Sec 10. T10S, R94W, 6th PM	Truck
	05-077-09623	Hawkins Ranch 10-3B	NWNW, Sec 10. T10S, R94W, 6th PM	Truck
	05-077-09624	Hawkins Ranch 10-3C	NWNW, Sec 10. T10S, R94W, 6th PM	Truck
	05-077-09337	Hawkins Ranch 10-4	NWNW, Sec 10. T10S, R94W, 6th PM	Truck
	05-077-09625	Hawkins Ranch 10-4A	NWNW, Sec 10. T10S, R94W, 6th PM	Truck
	05-077-09693	Hawkins Ranch 10-4B	NWNW, Sec 10. T10S, R94W, 6th PM	Truck
	05-077-09694	Hawkins Ranch 10-4C	NWNW, Sec 10. T10S, R94W, 6th PM	Truck
HAWKINS RANCH 10-9	05-077-09488	Hawkins Ranch 10-6	NESE, Sec 10, T10S, R94W, 6th PM	Truck
	05-077-09492	Hawkins Ranch 10-6A	NESE, Sec 10, T10S, R94W, 6th PM	Truck
	05-077-09491	Hawkins Ranch 10-6B	NESE, Sec 10, T10S, R94W, 6th PM	Truck
	05-077-09537	Hawkins Ranch 10-6C	NESE, Sec 10, T10S, R94W, 6th PM	Truck
	05-077-09490	Hawkins Ranch 10-7	NESE, Sec 10, T10S, R94W, 6th PM	Truck
	05-077-09489	Hawkins Ranch 10-7A	NESE, Sec 10, T10S, R94W, 6th PM	Truck
	05-077-09487	Hawkins Ranch 10-7B	NESE, Sec 10, T10S, R94W, 6th PM	Truck
	05-077-09486	Hawkins Ranch 10-7C	NESE, Sec 10, T10S, R94W, 6th PM	Truck
	05-077-09495	Hawkins Ranch 10-8	NESE, Sec 10, T10S, R94W, 6th PM	Truck
	05-077-09538	Hawkins Ranch 10-8A	NESE, Sec 10, T10S, R94W, 6th PM	Truck
	05-077-09485	Hawkins Ranch 10-8B	NESE, Sec 10, T10S, R94W, 6th PM	Truck
	05-077-09482	Hawkins Ranch 10-8C	NESE, Sec 10, T10S, R94W, 6th PM	Truck
	05-077-09483	Hawkins Ranch 10-9	NESE, Sec 10, T10S, R94W, 6th PM	Truck
	05-077-09484	Hawkins Ranch 10-9A	NESE, Sec 10, T10S, R94W, 6th PM	Truck
	05-077-09494	Hawkins Ranch 10-10	NESE, Sec 10, T10S, R94W, 6th PM	Truck
	05-077-09493	Hawkins Ranch 10-10A	NESE, Sec 10, T10S, R94W, 6th PM	Truck

WELL PAD	API NUMBER	WELL NAME	LOCATION	TRANSPORTED VIA?
LARAMIE LAND AND CATTLE CO. 17-15	05-077-08461	Colorado Land #2	SWSE, Sec 17, T10S, R94W, 6th PM	Truck
LARAMIE LAND AND CATTLE CO. 17-5	05-077-09426	LL&CC 17-3	SWNW, Sec 17, T10S, R94W, 6th PM	Truck
	05-077-09424	LL&CC 17-3A	SWNW, Sec 17, T10S, R94W, 6th PM	Truck
	05-077-09423	LL&CC 17-3B	SWNW, Sec 17, T10S, R94W, 6th PM	Truck
	05-077-09422	LL&CC 17-3C	SWNW, Sec 17, T10S, R94W, 6th PM	Truck
	05-077-09425	LL&CC 17-4	SWNW, Sec 17, T10S, R94W, 6th PM	Truck
	05-077-09431	LL&CC 17-4A	SWNW, Sec 17, T10S, R94W, 6th PM	Truck
	05-077-09437	LL&CC 17-4B	SWNW, Sec 17, T10S, R94W, 6th PM	Truck
	05-077-09427	LL&CC 17-6	SWNW, Sec 17, T10S, R94W, 6th PM	Truck
	05-077-09428	LL&CC 17-6A	SWNW, Sec 17, T10S, R94W, 6th PM	Truck
	05-077-09429	LL&CC 17-6B	SWNW, Sec 17, T10S, R94W, 6th PM	Truck
LARAMIE LAND AND CATTLE CO. 36-10	05-077-09069	LLCC 36-7	NWSE, Sec 36, T9S, R95W, 6th PM	Truck
	05-077-09210	LLCC 36-7A	NWSE, Sec 36, T9S, R95W, 6th PM	Truck
	05-077-09067	LLCC 36-8A	NWSE, Sec 36, T9S, R95W, 6th PM	Truck
	05-077-09066	LLCC 36-9	NWSE, Sec 36, T9S, R95W, 6th PM	Truck
	05-077-09212	LLCC 36-9A	NWSE, Sec 36, T9S, R95W, 6th PM	Truck
	05-077-09064	LLCC 36-10	NWSE, Sec 36, T9S, R95W, 6th PM	Truck
	05-077-09062	LLCC 36-10A	NWSE, Sec 36, T9S, R95W, 6th PM	Truck
	05-077-09213	LLCC 36-11	NWSE, Sec 36, T9S, R95W, 6th PM	Truck
	05-077-09209	LLCC 36-11A	NWSE, Sec 36, T9S, R95W, 6th PM	Truck
	05-077-09063	LLCC 36-14	NWSE, Sec 36, T9S, R95W, 6th PM	Truck
	05-077-09065	LLCC 36-14A	NWSE, Sec 36, T9S, R95W, 6th PM	Truck
	05-077-09208	LLCC 36-15	NWSE, Sec 36, T9S, R95W, 6th PM	Truck
MITCHELL 32-6	05-077-09086	Mitchell 32-3	SENW, Sec 32, T9S, R94W, 6th PM	Truck
	05-077-09085	Mitchell Federal 32-4	SENW, Sec 32, T9S, R94W, 6th PM	Truck
	05-077-09109	Mitchell Federal 32-5	SENW, Sec 32, T9S, R94W, 6th PM	Truck
	05-077-09108	Mitchell 32-6	SENW, Sec 32, T9S, R94W, 6th PM	Truck
	05-077-09088	Mitchell Federal 32-12	SENW, Sec 32, T9S, R94W, 6th PM	Truck

WELL PAD	API NUMBER	WELL NAME	LOCATION	TRANSPORTED VIA?
MY WAY RANCH 6-4	05-077-08822	My Way Ranch 1-1	NWNW, Sec 6, T10S, R94W, 6th PM	Truck
	05-077-09070	My Way Ranch 1-8	NWNW, Sec 6, T10S, R94W, 6th PM	Truck
	05-077-08859	My Way Ranch Federal 6-3	NWNW, Sec 6, T10S, R94W, 6th PM	Truck
	05-077-08988	My Way Ranch 6-4	NWNW, Sec 6, T10S, R94W, 6th PM	Truck
	05-077-08819	My Way Ranch Federal 31-13	NWNW, Sec 6, T10S, R94W, 6th PM	Truck
	05-077-09017	My Way Ranch Federal 31-14	NWNW, Sec 6, T10S, R94W, 6th PM	Truck
	05-077-08999	My Way Ranch 36-16	NWNW, Sec 6, T10S, R94W, 6th PM	Truck
MY WAY RANCH 6-11	05-077-09022	My Way Ranch Federal 6-2	NESW, Sec 6, T10S, R94W, 6th PM	Truck
	05-077-09018	My Way Ranch Federal 6-6	NESW, Sec 6, T10S, R94W, 6th PM	Truck
	05-077-09023	My Way Ranch Federal 6-7	NESW, Sec 6, T10S, R94W, 6th PM	Truck
	05-077-09019	My Way Ranch Federal 6-8	NESW, Sec 6, T10S, R94W, 6th PM	Truck
	05-077-09020	My Way Ranch Federal 6-9	NESW, Sec 6, T10S, R94W, 6th PM	Truck
	05-077-09021	My Way Ranch Federal 6-10	NESW, Sec 6, T10S, R94W, 6th PM	Truck
	05-077-09016	My Way Ranch Federal 6-11	NESW, Sec 6, T10S, R94W, 6th PM	Truck
	05-077-09024	My Way Ranch Federal 6-12	NESW, Sec 6, T10S, R94W, 6th PM	Truck
	05-077-09025	My Way Ranch Federal 6-14	NESW, Sec 6, T10S, R94W, 6th PM	Truck
	05-077-09026	My Way Ranch Federal 6-15	NESW, Sec 6, T10S, R94W, 6th PM	Truck
MY WAY RANCH 7-8	05-077-08952	My Way Ranch 7-1A	SENE, Sec 7, T10S, R94W, 6th PM	Truck
	05-077-08953	My Way Ranch 7-2	SENE, Sec 7, T10S, R94W, 6th PM	Truck
	05-077-08954	My Way Ranch 7-7	SENE, Sec 7, T10S, R94W, 6th PM	Truck
MY WAY RANCH 8-4	05-077-09076	My Way Ranch Federal 5-13	NWNW, Sec 8, T10S, R94W, 6th PM	Truck
	05-077-09075	My Way Ranch Federal 5-14	NWNW, Sec 8, T10S, R94W, 6th PM	Truck
	05-077-08821	My Way Ranch Federal 6-16	NWNW, Sec 8, T10S, R94W, 6th PM	Truck
MY WAY RANCH 8-14	05-077-08871	My Way Ranch 8-11	SESW, Sec 8, T10S, R94W, 6th PM	Truck
	05-077-08810	My Way Ranch 8-12	SESW, Sec 8, T10S, R94W, 6th PM	Truck
	05-077-08866	My Way Ranch 8-13	SESW, Sec 8, T10S, R94W, 6th PM	Truck
	05-077-08870	My Way Ranch 8-14	SESW, Sec 8, T10S, R94W, 6th PM	Truck
	05-077-08887	My Way Ranch 8-15	SESW, Sec 8, T10S, R94W, 6th PM	Truck
MY WAY RANCH 16-15	05-077-08851	My Way Ranch 16-11	SWSE, Sec16, T10S, R94W, 6th PM	Truck
	05-077-08820	My Way Ranch 16-13	SWSE, Sec16, T10S, R94W, 6th PM	Truck
MY WAY RANCH 17-7	05-077-08955	My Way Ranch Federal 17-1	SWNE, Sec17, T10S, R94W, 6th PM	Truck
	05-077-08811	My Way Ranch 17-7	SWNE, Sec17, T10S, R94W, 6th PM	Truck
	05-077-08943	My Way Ranch 17-8	SWNE, Sec17, T10S, R94W, 6th PM	Truck 1

WELL PAD	API NUMBER	WELL NAME	LOCATION	TRANSPORTED VIA?
MY WAY RANCH 18-1	05-077-08711	My Way Ranch 18-1	NENE, Sec18, T10S, R94W, 6th PM	Truck
	05-077-09048	My Way Ranch 18-1A	NENE, Sec18, T10S, R94W, 6th PM	Truck
	05-077-08998	My Way Ranch 18-2	NENE, Sec18, T10S, R94W, 6th PM	Truck
	05-077-08997	My Way Ranch 18-7	NENE, Sec18, T10S, R94W, 6th PM	Truck
	05-077-08996	My Way Ranch 18-8	NENE, Sec18, T10S, R94W, 6th PM	Truck
MY WAY RANCH 18-5	05-077-08990	My Way Ranch 18-3	SWNW, Sec18, T10S, R94W, 6th PM	Truck
	05-077-08991	My Way Ranch 18-4	SWNW, Sec18, T10S, R94W, 6th PM	Truck
	05-077-09047	My Way Ranch 18-5	SWNW, Sec18, T10S, R94W, 6th PM	Truck
	05-077-08989	My Way Ranch 18-6	SWNW, Sec18, T10S, R94W, 6th PM	Truck
RED MOUNTAIN RANCH 4-6	05-077-08960	Red Mt Ranch 4-3	SENE, Sec 4, T10S, R94W, 6th PM	Truck
	05-077-08959	Red Mt Ranch 4-4	SENE, Sec 4, T10S, R94W, 6th PM	Truck
	05-077-08964	Red Mt Ranch 4-5	SENE, Sec 4, T10S, R94W, 6th PM	Truck
RED MOUNTAIN RANCH 33-11	05-077-09235	Red Mt Ranch 4-2	NESW, Sec33, T9S, R94W, 6th PM	Truck
	05-077-09237	Red Mt Ranch 33-11	NESW, Sec33, T9S, R94W, 6th PM	Truck
	05-077-09236	Red Mt Ranch 33-13	NESW, Sec33, T9S, R94W, 6th PM	Truck
	05-077-09234	Red Mt Ranch 33-14	NESW, Sec33, T9S, R94W, 6th PM	Truck
	05-077-09233	Red Mt Ranch 33-15	NESW, Sec33, T9S, R94W, 6th PM	Truck
HELL'S GULCH 2-2	05-077-08879	Hells Gulch Federal 2-1	NWNE, Sec 2, T9S, R92W, 6th PM	Truck
	05-077-08798	Hells Gulch Federal 2-2	NWNE, Sec 2, T9S, R92W, 6th PM	Truck
	05-077-08878	Hells Gulch Federal 2-8	NWNE, Sec 2, T9S, R92W, 6th PM	Truck
HELL'S GULCH 2-10	05-077-08962	Hells Gulch Federal 2-7	NWSE, Sec 2, T9S, R92W, 6th PM	Truck
	05-077-08876	Hells Gulch Federal 2-9	NWSE, Sec 2, T9S, R92W, 6th PM	Truck
	05-077-08875	Hells Gulch Federal 2-10	NWSE, Sec 2, T9S, R92W, 6th PM	Truck
	05-077-08874	Hells Gulch Federal 2-15	NWSE, Sec 2, T9S, R92W, 6th PM	Truck
	05-077-08873	Hells Gulch Federal 2-16	NWSE, Sec 2, T9S, R92W, 6th PM	Truck

WELL PAD	API NUMBER	WELL NAME	LOCATION	TRANSPORTED VIA?
HELL'S GULCH 23-13	05-077-08891	Hells Gulch Federal 23-11	SWSW, Sec 23, T8S, R92W, 6th PM	Truck
	05-077-09271	Hells Gulch Federal 23-11A	SWSW, Sec 23, T8S, R92W, 6th PM	Truck
	05-077-09264	Hells Gulch Federal 23-11B	SWSW, Sec 23, T8S, R92W, 6th PM	Truck
	05-077-09267	Hells Gulch Federal 23-11C	SWSW, Sec 23, T8S, R92W, 6th PM	Truck
	05-077-08890	Hells Gulch Federal 23-12	SWSW, Sec 23, T8S, R92W, 6th PM	Truck
	05-077-09268	Hells Gulch Federal 23-12A	SWSW, Sec 23, T8S, R92W, 6th PM	Truck
	05-077-09269	Hells Gulch Federal 23-12B	SWSW, Sec 23, T8S, R92W, 6th PM	Truck
	05-077-09270	Hells Gulch Federal 23-12C	SWSW, Sec 23, T8S, R92W, 6th PM	Truck
	05-077-08888	Hells Gulch Federal 23-13	SWSW, Sec 23, T8S, R92W, 6th PM	Truck
	05-077-09659	Hells Gulch Federal 23-13A	SWSW, Sec 23, T8S, R92W, 6th PM	Truck
	05-077-09658	Hells Gulch Federal 23-13B	SWSW, Sec 23, T8S, R92W, 6th PM	Truck
	05-077-09656	Hells Gulch Federal 23-13C	SWSW, Sec 23, T8S, R92W, 6th PM	Truck
	05-077-08889	Hells Gulch Federal 23-14	SWSW, Sec 23, T8S, R92W, 6th PM	Truck
	05-077-09265	Hells Gulch Federal 23-14A	SWSW, Sec 23, T8S, R92W, 6th PM	Truck
	05-077-09266	Hells Gulch Federal 23-14B	SWSW, Sec 23, T8S, R92W, 6th PM	Truck
	05-077-09657	Hells Gulch Federal 23-14C	SWSW, Sec 23, T8S, R92W, 6th PM	Truck
HELL'S GULCH 26-6	05-077-08899	Hells Gulch Federal 26-3	SENW, Sec 26, T8S, R92W, 6th PM	Truck
	05-077-09278	Hells Gulch Federal 26-3A	SENW, Sec 26, T8S, R92W, 6th PM	Truck
	05-077-09279	Hells Gulch Federal 26-3B	SENW, Sec 26, T8S, R92W, 6th PM	Truck
	05-077-09272	Hells Gulch Federal 26-3C	SENW, Sec 26, T8S, R92W, 6th PM	Truck
	05-077-08898	Hells Gulch Federal 26-4	SENW, Sec 26, T8S, R92W, 6th PM	Truck
	05-077-09273	Hells Gulch Federal 26-4A	SENW, Sec 26, T8S, R92W, 6th PM	Truck
	05-077-09274	Hells Gulch Federal 26-4B	SENW, Sec 26, T8S, R92W, 6th PM	Truck
	05-077-09275	Hells Gulch Federal 26-4C	SENW, Sec 26, T8S, R92W, 6th PM	Truck
	05-077-09276	Hells Gulch Federal 26-5A	SENW, Sec 26, T8S, R92W, 6th PM	Truck

WELL PAD	API NUMBER	WELL NAME	LOCATION	TRANSPORTED VIA?
GUNDERSON 12-10	05-077-08858	Gunderson 12-6	NWSE, Sec 12, T9S, R94W, 6th PM	Truck
	05-077-08839	Gunderson Federal 12-7	NWSE, Sec 12, T9S, R94W, 6th PM	Truck
	05-077-08867	Gunderson Federal 12-8	NWSE, Sec 12, T9S, R94W, 6th PM	Truck
	05-077-08868	Gunderson Federal 12-9	NWSE, Sec 12, T9S, R94W, 6th PM	Truck
	05-077-08861	Gunderson Federal 12-11	NWSE, Sec 12, T9S, R94W, 6th PM	Truck
	05-077-08862	Gunderson 12-15	NWSE, Sec 12, T9S, R94W, 6th PM	Truck
	05-077-08869	Gunderson Federal 12-16	NWSE, Sec 12, T9S, R94W, 6th PM	Truck
GUNDERSON 12-14	05-077-09081	Gunderson 12-14A	SESW, Sec 12, T9S, R94W, 6th PM	Truck
	05-077-09082	Gunderson Federal 13-2	SESW, Sec 12, T9S, R94W, 6th PM	Truck
	05-077-09061	Gunderson 13-3	SESW, Sec 12, T9S, R94W, 6th PM	Truck
GUNDERSON 13-11	05-077-09007	Gunderson 13-5	NESW, Sec 13, T9S, R94W, 6th PM	Truck
	05-077-09006	Gunderson 13-6	NESW, Sec 13, T9S, R94W, 6th PM	Truck
	05-077-09010	Gunderson 13-11	NESW, Sec 13, T9S, R94W, 6th PM	Truck
	05-077-09009	Gunderson 13-12	NESW, Sec 13, T9S, R94W, 6th PM	Truck
	05-077-09008	Gunderson 13-14	NESW, Sec 13, T9S, R94W, 6th PM	Truck
GUNDERSON 18-5	05-077-09182	Gunderson Federal 13-1	SENW, Sec 18, T9S, R94W, 6th PM	Truck
	05-077-09179	Gunderson 18-3	SENW, Sec 18, T9S, R94W, 6th PM	Truck
	05-077-09798	Gunderson 18-3A	SENW, Sec 18, T9S, R94W, 6th PM	Truck
	05-077-09797	Gunderson 18-3B	SENW, Sec 18, T9S, R94W, 6th PM	Truck
	05-077-09796	Gunderson 18-3C	SENW, Sec 18, T9S, R94W, 6th PM	Truck
	05-077-09181	Gunderson Federal 18-4	SENW, Sec 18, T9S, R94W, 6th PM	Truck
	05-077-09178	Gunderson 18-5	SENW, Sec 18, T9S, R94W, 6th PM	Truck

WELL PAD	API NUMBER	WELL NAME	LOCATION	TRANSPORTED VIA?
HELL'S GULCH 26-7	05-077-09392	Hells Gulch Federal 23-15	SWNE, Sec 26, T8S, R92W, 6th PM	Truck
	05-077-09398	Hells Gulch Federal 23-15A	SWNE, Sec 26, T8S, R92W, 6th PM	Truck
	05-077-09397	Hells Gulch Federal 23-15B	SWNE, Sec 26, T8S, R92W, 6th PM	Truck
	05-077-09396	Hells Gulch Federal 23-15C	SWNE, Sec 26, T8S, R92W, 6th PM	Truck
	05-077-08896	Hells Gulch Federal 24-13	SWNE, Sec 26, T8S, R92W, 6th PM	Truck
	05-077-08894	Hells Gulch Federal 26-2	SWNE, Sec 26, T8S, R92W, 6th PM	Truck
	05-077-09395	Hells Gulch Federal 26-2A	SWNE, Sec 26, T8S, R92W, 6th PM	Truck
	05-077-09394	Hells Gulch Federal 26-2B	SWNE, Sec 26, T8S, R92W, 6th PM	Truck
	05-077-09393	Hells Gulch Federal 26-2C	SWNE, Sec 26, T8S, R92W, 6th PM	Truck
	05-077-08893	Hells Gulch Federal 26-11	SWNE, Sec 26, T8S, R92W, 6th PM	Truck
HIDDEN CREEK WEST FEDERAL 14-14	05-077-09158	Hidden Creek West Federal 23-1	SESW, Sec 14, T8S, R92W, 6th PM	Truck
	05-077-09156	Hidden Creek West Federal 23-2	SESW, Sec 14, T8S, R92W, 6th PM	Truck
	05-077-09152	Hidden Creek West Federal 23-3	SESW, Sec 14, T8S, R92W, 6th PM	Truck
	05-077-09263	Hidden Creek West Federal 23-3B	SESW, Sec 14, T8S, R92W, 6th PM	Truck
	05-077-09157	Hidden Creek West Federal 23-4	SESW, Sec 14, T8S, R92W, 6th PM	Truck
	05-077-09155	Hidden Creek West Federal 23-5	SESW, Sec 14, T8S, R92W, 6th PM	Truck
	05-077-09153	Hidden Creek West Federal 23-6	SESW, Sec 14, T8S, R92W, 6th PM	Truck
	05-077-09154	Hidden Creek West Federal 23-7	SESW, Sec 14, T8S, R92W, 6th PM	Truck

Multi-Chem Group, LLC

Multi-Chem Analytical Laboratory
1553 East Highway 40
Vernal, UT 84078



Water Analysis Report

Production Company: **OXY (152)**
Well Name: **ANDERSON 7-13**
Sample Point: **Separator**
Sample Date: **1 /20/2009**
Sales Rep: **Ron Gates**
Lab Tech: **Peter Poulsen**

Sample ID: **WA-20951**

Sample Specifics		Analysis @ Properties in Sample Specifics			
Test Date:	2/4/2009	Cations	mg/L	Anions	mg/L
Temperature (°F):	52	Calcium (Ca):	380.00	Chloride (Cl):	35000.00
Sample Pressure (psig):	0	Magnesium (Mg):	12.20	Sulfate (SO ₄):	1.00
Specific Gravity (g/cm³):	1.0251	Barium (Ba):	25.00	Dissolved CO ₂ :	126.72
pH:	6	Strontium (Sr):	-	Bicarbonate (HCO ₃):	1068.00
Turbidity (NTU):	-	Sodium (Na):	22073.00	Carbonate (CO ₃):	-
		Potassium (K):	-	H ₂ S:	0.50
		Iron (Fe):	5.00	Phosphate (PO ₄):	-
		Manganese (Mn):	0.50	Silica (SiO ₂):	-
Calculated T.D.S. (mg/L)	58692	Lithium (Li):	-	Fluoride (F):	-
Molar Conductivity (µS/cm):	88927	Aluminum (Al):	-	Nitrate (NO ₃):	-
Resistivity (Mohm):	0.1125	Ammonia NH ₃ :	-	Lead (Pb):	-
				Zinc (Zn):	-
				Bromine (Br):	-
				Boron (B):	-

Test Conditions		Scale Values @ Test Conditions - Potential Amount of Scale in lb/1000bbl											
		Calcium Carbonate CaCO ₃		Gypsum CaSO ₄ · 2H ₂ O		Calcium Sulfate CaSO ₄		Strontium Sulfate SrSO ₄		Barium Sulfate BaSO ₄		Calculated CO ₂	
		Sat Index	Scale	Sat Index	Scale	Sat Index	Scale	Sat Index	Scale	Sat Index	Scale	psi	
Temp °F	Gauge Press. psi												
52	0	0.05	-1.10	0.00	-3245.60	0.00	-3867.60	-	-	0.42	-2.37	13.83	
80	0	0.10	-0.84	0.00	-18.11	0.00	-3864.10	-	-	0.21	-5.65	4.82	
100	0	0.14	-0.71	0.00	-14.24	0.00	-3648.50	-	-	0.14	-8.92	6.29	
120	0	0.19	-0.60	0.00	-11.45	0.00	-3310.30	-	-	0.09	-13.11	7.28	
140	0	0.25	-0.52	0.00	-9.45	0.00	-2901.00	-	-	0.06	-18.33	8.44	
160	0	0.31	-0.45	0.00	-8.02	0.00	-2465.40	-	-	0.04	-24.70	9.79	
180	0	0.37	-0.39	0.00	-7.03	0.00	-2037.90	-	-	0.03	-32.35	11.04	
200	0	0.44	-0.34	0.00	-6.37	0.00	-1642.30	-	-	0.02	-41.45	11.47	
220	2.51	0.50	-0.31	0.00	-6.09	0.00	-1316.90	-	-	0.01	-53.23	11.89	
240	10.3	0.56	-0.27	0.00	-5.88	0.00	-1014.80	-	-	0.01	-66.19	12.35	
260	20.76	0.62	-0.24	0.00	-5.81	0.00	-763.70	-	-	0.01	-81.37	12.82	
280	34.54	0.66	-0.22	0.00	-5.83	0.00	-560.86	-	-	0.00	-99.12	13.32	
300	52.34	0.70	-0.21	0.00	-5.94	0.00	-401.69	-	-	0.00	-119.90	13.83	

Conclusions:

Calcium Carbonate Scaling Index is negative from 80°F to 300°F
Gypsum Scaling Index is negative from 80°F to 300°F
Calcium Sulfate Scaling Index is negative from 80°F to 300°F
Strontium Sulfate scaling was not evaluated
Barium Sulfate Scaling Index is negative from 80°F to 300°F

Notes:

Multi-Chem Group, LLC

Multi-Chem Analytical Laboratory

1553 East Highway 40

Vernal, UT 84078

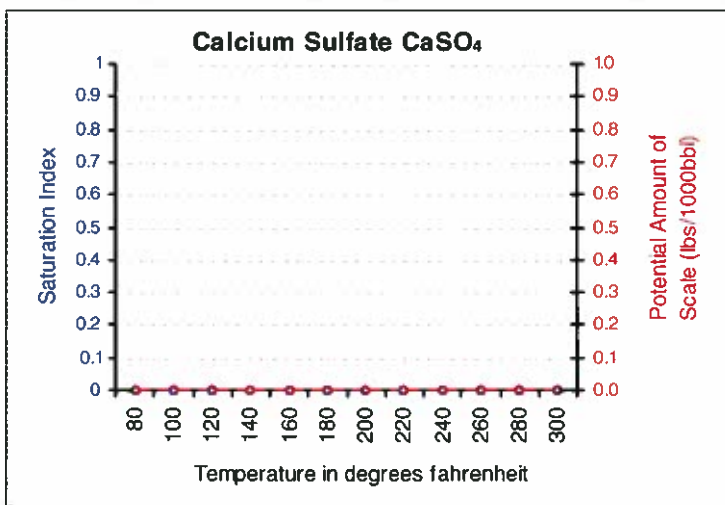
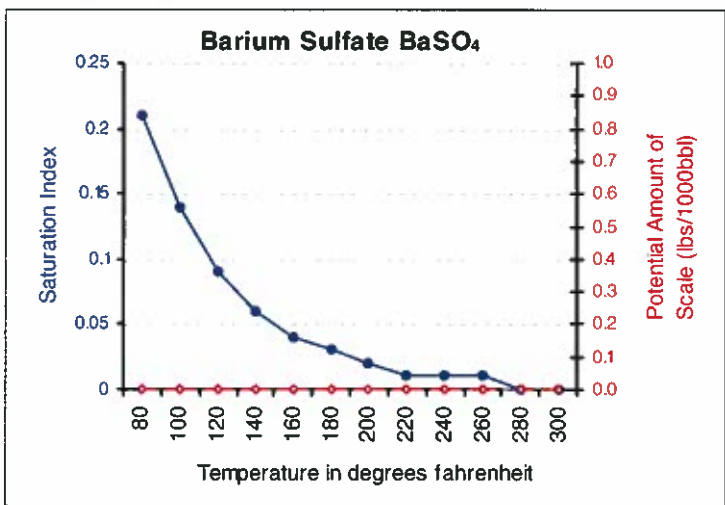
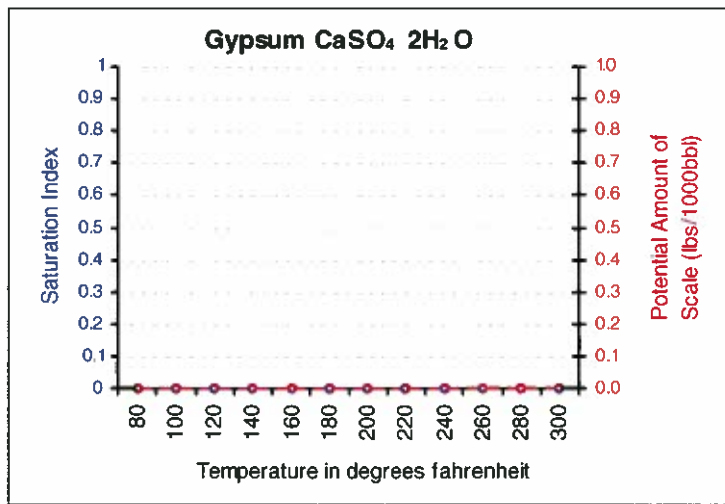
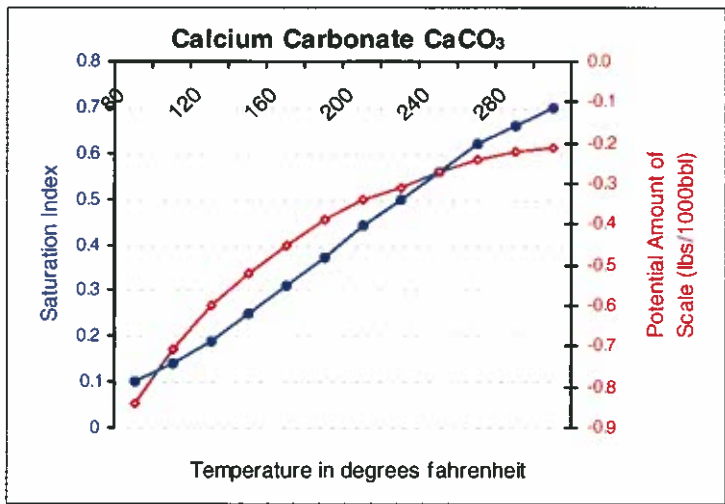
multi-chem®



Scale Prediction Graphs

Well Name: **ANDERSON 7-13**

Sample ID: **WA-20951**



Multi-Chem Group, LLC

Multi-Chem Analytical Laboratory

1553 East Highway 40

Vernal, UT 84078



Water Analysis Report

Production Company: **OXY (152)**

Sample ID: **WA-21389**

Well Name: **Blackman 14-14**

Sample Point: **Separator**

Sample Date: **1 /23/2009**

Sales Rep: **Ron Gates**

Lab Tech: **Peter Poulsen**

Sample Specifics	
Test Date:	2/12/2009
Temperature (°F):	44
Sample Pressure (psig):	0
Specific Gravity (g/cm³):	1.0116
pH:	6.1
Turbidity (NTU):	-
Calculated T.D.S. (mg/L)	22010
Molar Conductivity (µS/cm):	33349
Resitivity (Mohm):	0.2999

Analysis @ Properties in Sample Specifics			
Cations	mg/L	Anions	mg/L
Calcium (Ca):	260.00	Chloride (Cl):	12500.00
Magnesium (Mg):	12.20	Sulfate (SO₄):	7.00
Barium (Ba):	218.00	Dissolved CO₂:	174.24
Strontium (Sr):	-	Bicarbonate (HCO₃):	884.50
Sodium (Na):	7951.00	Carbonate (CO₃):	-
Potassium (K):	-	H₂S:	0.50
Iron (Fe):	2.24	Phosphate (PO₄):	-
Manganese (Mn):	0.50	Silica (SiO₂):	-
Lithium (Li):	-	Fluoride (F):	-
Aluminum (Al):	-	Nitrate (NO₃):	-
Ammonia NH₃:	-	Lead (Pb):	-
		Zinc (Zn):	-
		Bromine (Br):	-
		Boron (B):	-

Test Conditions		Scale Values @ Test Conditions - Potential Amount of Scale in lb/1000bbl										
		Calcium Carbonate		Gypsum		Calcium Sulfate		Strontium Sulfate		Barium Sulfate		Calculated
		CaCO₃		CaSO₄ · 2H₂O		CaSO₄		SrSO₄		BaSO₄		CO₂
Temp °F	Gauge Press. psi	Sat Index	Scale	Sat Index	Scale	Sat Index	Scale	Sat Index	Scale	Sat Index	Scale	psi
44	0	0.04	-1.20	0.00	-2513.30	0.00	-3069.60	-	-	68.73	14.08	10.49
80	0	0.10	-0.84	0.00	-14.35	0.00	-3101.30	-	-	29.50	13.36	3.71
100	0	0.15	-0.70	0.00	-11.11	0.00	-2915.00	-	-	19.12	12.88	4.82
120	0	0.20	-0.59	0.00	-8.79	0.00	-2632.70	-	-	12.67	12.31	5.57
140	0	0.25	-0.50	0.00	-7.14	0.00	-2296.60	-	-	8.56	11.63	6.45
160	0	0.32	-0.43	0.00	-5.97	0.00	-1942.60	-	-	5.89	10.78	7.46
180	0	0.39	-0.36	0.00	-5.16	0.00	-1598.10	-	-	4.12	9.71	8.41
200	0	0.46	-0.31	0.00	-4.61	0.00	-1281.50	-	-	2.92	8.33	8.72
220	2.51	0.52	-0.27	0.00	-4.34	0.00	-1019.00	-	-	2.05	6.44	9.03
240	10.3	0.58	-0.24	0.00	-4.14	0.00	-780.44	-	-	1.48	4.05	9.37
260	20.76	0.64	-0.21	0.00	-4.05	0.01	-583.17	-	-	1.08	0.92	9.73
280	34.54	0.69	-0.18	0.00	-4.03	0.01	-424.60	-	-	0.79	-3.16	10.10
300	52.34	0.73	-0.16	0.00	-4.07	0.02	-300.55	-	-	0.59	-8.46	10.49

Conclusions:

Calcium Carbonate Scaling Index is negative from 80°F to 300°F

Gypsum Scaling Index is negative from 80°F to 300°F

Calcium Sulfate Scaling Index is negative from 80°F to 300°F

Strontium Sulfate scaling was not evaluated

Barium Sulfate NO CONCLUSION

Notes:

Multi-Chem Group, LLC

Multi-Chem Analytical Laboratory

1553 East Highway 40

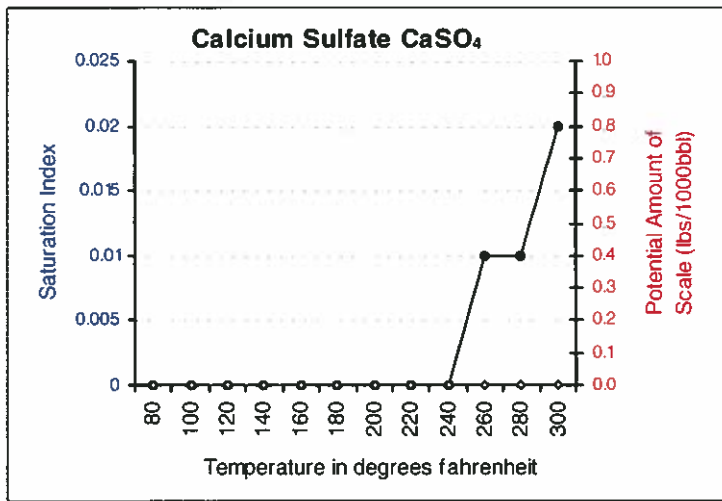
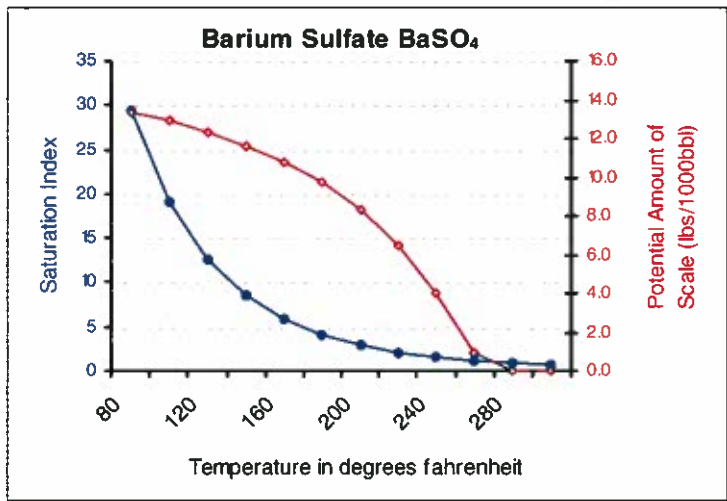
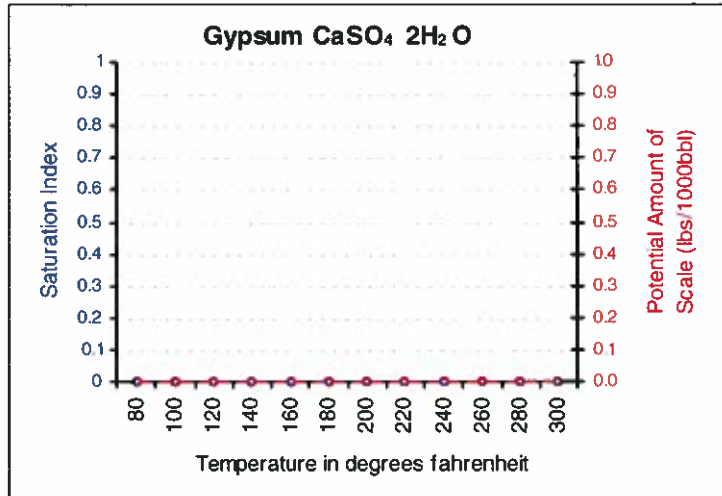
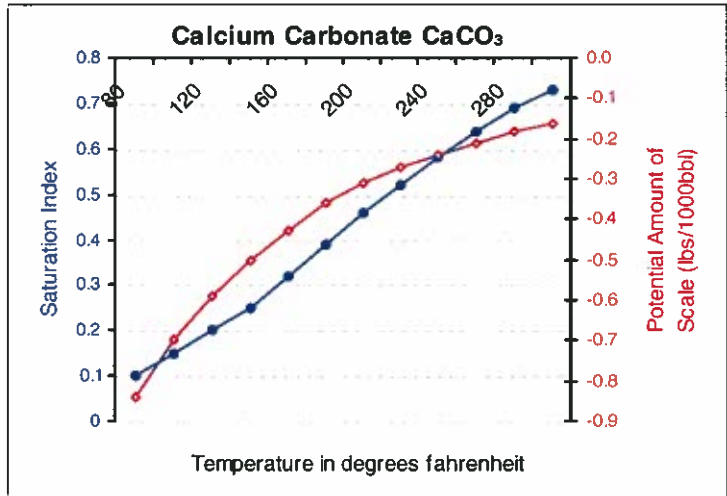
Vernal, UT 84078



Scale Prediction Graphs

Well Name: **Blackman 14-14**

Sample ID: **WA-21389**



Multi-Chem Group, LLC

Multi-Chem Analytical Laboratory
1553 East Highway 40
Vernal, UT 84078



Water Analysis Report

Production Company: **OXY (152)**
Well Name: **Campbell 18-11**
Sample Point: **separator**
Sample Date: **1 /21/2009**
Sales Rep: **Ron Gates**
Lab Tech: **Peter Poulsen**

Sample ID: **WA-20446**

Sample Specifics		Analysis @ Properties in Sample Specifics			
Test Date:	1/21/2009	Cations	mg/L	Anions	mg/L
Temperature (°F):	56	Calcium (Ca):	200.00	Chloride (Cl):	17500.00
Sample Pressure (psig):		Magnesium (Mg):	12.20	Sulfate (SO ₄):	41.00
Specific Gravity (g/cm ³):	1.0163	Barium (Ba):	65.00	Dissolved CO ₂ :	198.00
pH:	6.7	Strontium (Sr):	-	Bicarbonate (HCO ₃):	915.00
Turbidity (NTU):	-	Sodium (Na):	11173.00	Carbonate (CO ₃):	-
		Potassium (K):	-	H ₂ S:	2.50
		Iron (Fe):	100.00	Phosphate (PO ₄):	-
Calculated T.D.S. (mg/L)	30213	Manganese (Mn):	6.60	Silica (SiO ₂):	-
Molar Conductivity (µS/cm):	45778	Lithium (Li):	-	Fluoride (F):	-
Resitivity (Mohm):	0.2184	Aluminum (Al):	-	Nitrate (NO ₃):	-
		Ammonia NH ₃ :	-	Lead (Pb):	-
				Zinc (Zn):	-
				Bromine (Br):	-
				Boron (B):	-

Test Conditions		Scale Values @ Test Conditions - Potential Amount of Scale in lb/1000bbl										
		Calcium Carbonate		Gypsum		Calcium Sulfate		Strontium Sulfate		Barium Sulfate		Calculated
		CaCO ₃		CaSO ₄ · 2H ₂ O		CaSO ₄		SrSO ₄		BaSO ₄		CO ₂
Temp °F	Gauge Press. psi	Sat Index	Scale	Sat Index	Scale	Sat Index	Scale	Sat Index	Scale	Sat Index	Scale	psi
56		0.29	-1.24	0.00	-2973.60	0.00	-3551.20	-	-	69.86	77.79	3.79
80	0	0.49	-0.74	0.00	-15.78	0.00	-3515.00	-	-	39.99	73.92	1.64
100	0	0.69	-0.41	0.00	-12.18	0.00	-3316.20	-	-	25.81	70.23	2.06
120	0	0.90	-0.12	0.00	-9.59	0.00	-3011.10	-	-	17.03	66.03	2.34
140	0	1.13	0.14	0.00	-7.72	0.00	-2645.00	-	-	11.46	61.26	2.65
160	0	1.38	0.39	0.00	-6.39	0.00	-2257.00	-	-	7.84	55.82	3.01
180	0	1.64	0.63	0.00	-5.46	0.01	-1877.00	-	-	5.45	49.62	3.33
200	0	1.88	0.85	0.00	-4.82	0.01	-1524.90	-	-	3.84	42.52	3.39
220	2.51	2.08	1.06	0.00	-4.49	0.01	-1231.30	-	-	2.68	33.88	3.46
240	10.3	2.26	1.24	0.00	-4.23	0.01	-959.89	-	-	1.92	24.32	3.53
260	20.76	2.40	1.39	0.00	-4.08	0.02	-731.42	-	-	1.39	13.33	3.61
280	34.54	2.48	1.51	0.00	-4.00	0.03	-543.29	-	-	1.02	0.66	3.70
300	52.34	2.51	1.58	0.00	-3.98	0.05	-391.36	-	-	0.75	-13.95	3.79

Conclusions:

Calcium Carbonate scale is indicated. See graph for appropriate temperature ranges.
Gypsum Scaling Index is negative from 80°F to 300°F
Calcium Sulfate Scaling Index is negative from 80°F to 300°F
Strontium Sulfate scaling was not evaluated
Barium Sulfate NO CONCLUSION

Notes:

Multi-Chem Group, LLC

Multi-Chem Analytical Laboratory

1553 East Highway 40

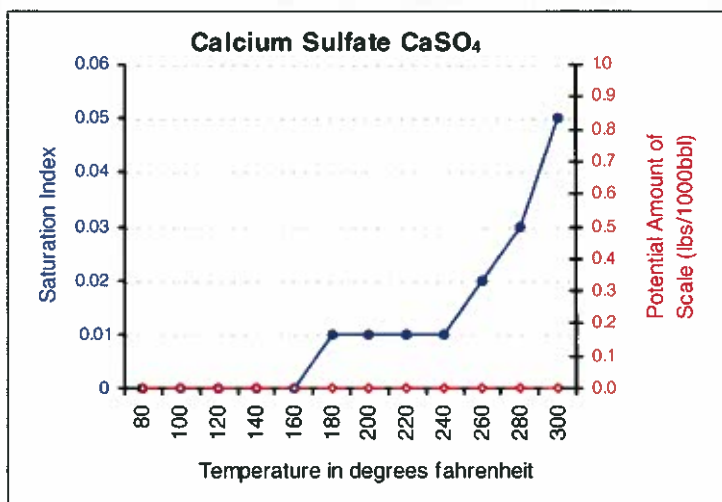
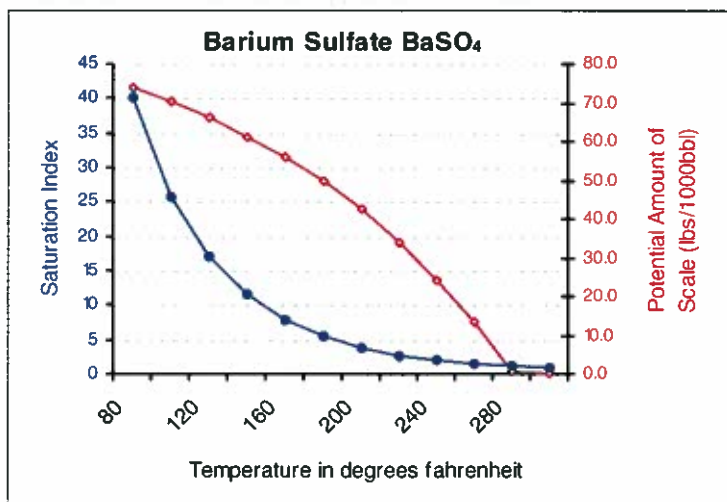
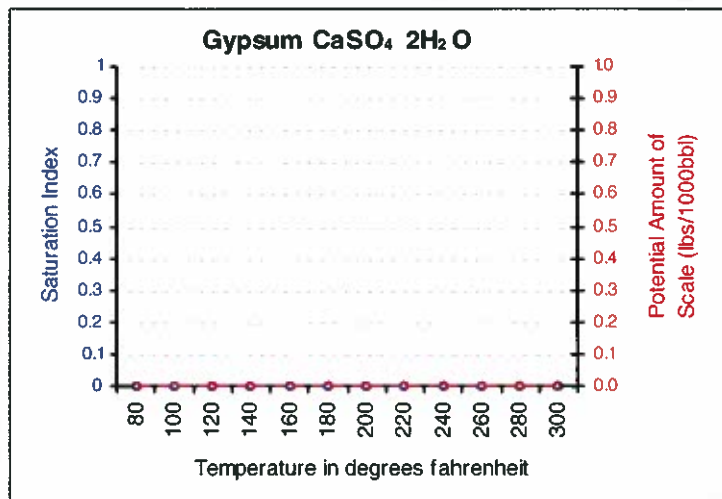
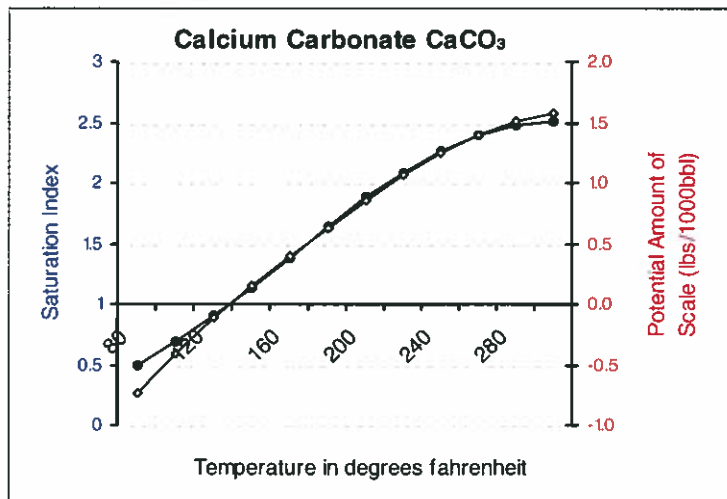
Vernal, UT 84078



Scale Prediction Graphs

Well Name: **Campbell 18-11**

Sample ID: **WA-20446**



Multi-Chem Group, LLC

Multi-Chem Analytical Laboratory
1553 East Highway 40
Vernal, UT 84078



Water Analysis Report

Production Company: **OXY USA WTP LP (152)**

Sample ID: **WA-37180**

Well Name: **pad # Currey 16-10**

Sample Point: **water production tank**

Sample Date: **2 /15/2010**

Sales Rep: **Bert Wollerman**

Lab Tech: **John Keel**

Sample Specifics	
Test Date:	2/19/2010
Temperature (°F):	74
Sample Pressure (psig):	0
Specific Gravity (g/cm³):	1.0110
pH:	6.8
Turbidity (NTU):	-
Calculated T.D.S. (mg/L)	18965
Molar Conductivity (µS/cm):	28734
Resitivity (Mohm):	0.3480

Analysis @ Properties in Sample Specifics			
Cations		mg/L	Anions
Calcium (Ca):		160.00	Chloride (Cl):
Magnesium (Mg):		36.60	Sulfate (SO₄):
Barium (Ba):		59.00	Dissolved CO₂:
Strontium (Sr):		-	Bicarbonate (HCO₃):
Sodium (Na):		6742.00	Carbonate (CO₃):
Potassium (K):		-	H₂S:
Iron (Fe):		66.90	Phosphate (PO₄):
Manganese (Mn):		1.69	Silica (SiO₂):
Lithium (Li):		-	Fluoride (F):
Aluminum (Al):		-	Nitrate (NO₃):
Ammonia NH₃:		-	Lead (Pb):
			Zinc (Zn):
			Bromine (Br):
			Boron (B):

Test Conditions		Scale Values @ Test Conditions - Potential Amount of Scale in lb/1000bbl											
		Calcium Carbonate CaCO₃		Gypsum CaSO₄ · 2H₂O		Calcium Sulfate CaSO₄		Strontium Sulfate SrSO₄		Barium Sulfate BaSO₄		Calculated CO₂	
		Sat Index	Scale	Sat Index	Scale	Sat Index	Scale	Sat Index	Scale	Sat Index	Scale	psi	
Temp °F	Gauge Press. psi												
74	0	0.93	-0.11	0.01	-2643.10	0.00	-3077.50	-	-	127.40	98.42	5.84	
80	0	1.04	0.07	0.01	-4.73	0.00	-3048.50	-	-	111.42	98.15	2.55	
100	0	1.43	0.58	0.01	-3.01	0.00	-2871.90	-	-	72.44	96.99	3.20	
120	0	1.83	1.04	0.01	-1.81	0.01	-2603.70	-	-	48.18	95.36	3.62	
140	0	2.26	1.48	0.01	-0.94	0.01	-2283.80	-	-	32.72	93.15	4.10	
160	0	2.68	1.91	0.01	-0.28	0.01	-1946.30	-	-	22.64	90.27	4.65	
180	0	3.09	2.34	0.01	0.21	0.01	-1616.90	-	-	15.93	86.63	5.14	
200	0	3.46	2.76	0.01	0.59	0.01	-1312.50	-	-	11.37	82.15	5.24	
220	2.51	3.74	3.20	0.01	0.85	0.02	-1057.40	-	-	8.04	76.40	5.33	
240	10.3	3.99	3.59	0.01	1.04	0.03	-823.80	-	-	5.85	69.84	5.45	
260	20.76	4.18	3.93	0.01	1.14	0.04	-627.23	-	-	4.30	62.10	5.57	
280	34.54	4.30	4.22	0.01	1.16	0.06	-465.07	-	-	3.18	53.06	5.70	
300	52.34	4.35	4.43	0.01	1.11	0.10	-333.27	-	-	2.37	42.54	5.84	

Conclusions:

Calcium Carbonate scale is indicated at all temperatures from 80°F to 300°F

Gypsum Scaling Index is negative from 80°F to 300°F

Calcium Sulfate Scaling Index is negative from 80°F to 300°F

Strontium Sulfate scaling was not evaluated

Barium Sulfate scale is indicated at all temperatures from 80°F to 300°F

Notes:

Multi-Chem Group, LLC

Multi-Chem Analytical Laboratory

1553 East Highway 40

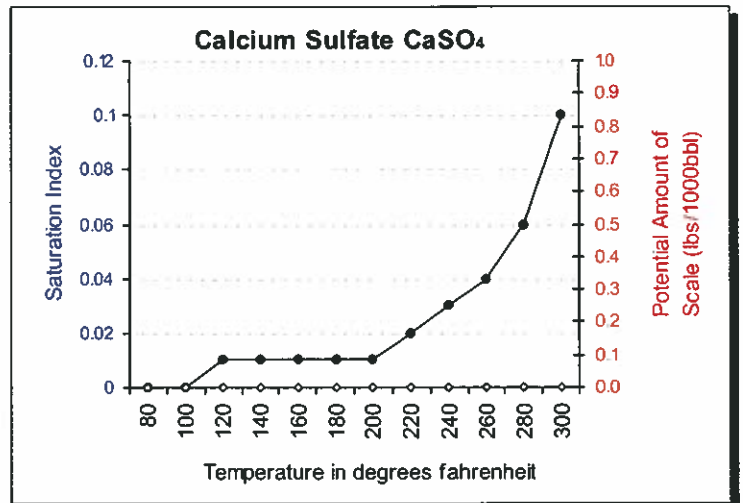
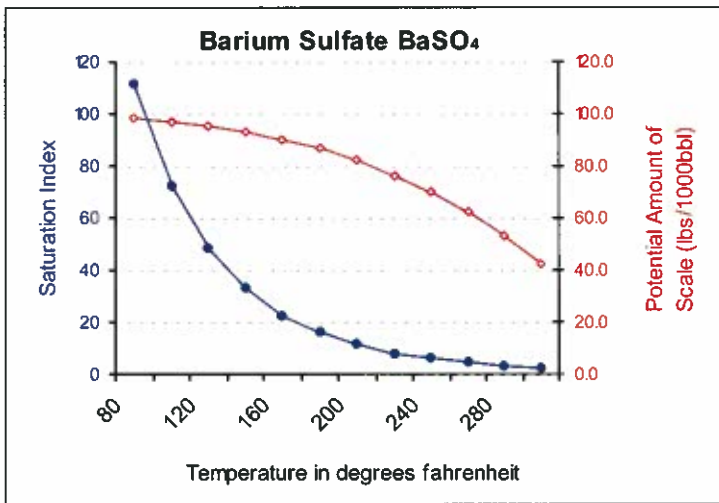
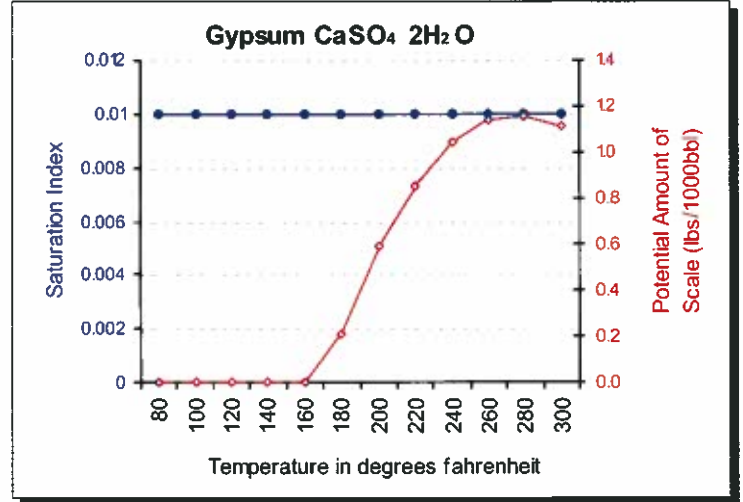
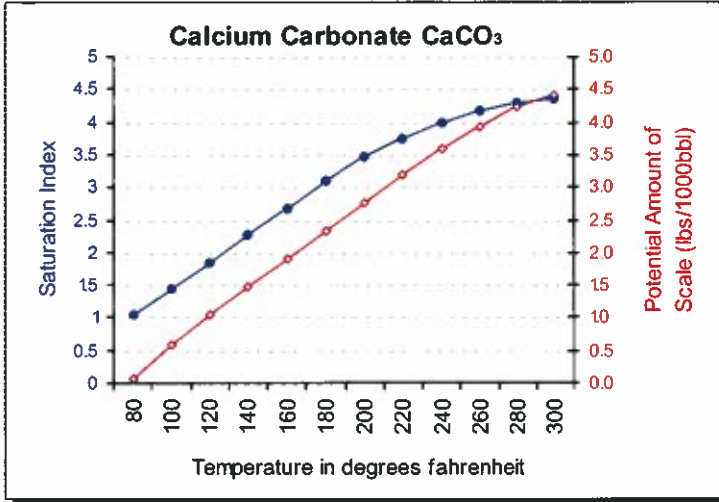
Vernal, UT 84078



Scale Prediction Graphs

Well Name: pad # Currey 16-10

Sample ID: WA-37180



Multi-Chem Group, LLC

Multi-Chem Analytical Laboratory
1553 East Highway 40
Vernal, UT 84078



Water Analysis Report

Production Company: **OCCIDENTAL OIL & GAS COPR.**

Sample ID: **WA-19902**

Well Name: **CURREY 16-11**

Sample Point: **Separator**

Sample Date: **1 /14/2009**

Sales Rep: **Ron Gates**

Lab Tech: **Peter Poulsen**

Sample Specifics		Analysis @ Properties in Sample Specifics			
Test Date:	1/21/2009	Cations	mg/L	Anions	mg/L
Temperature (°F):	68	Calcium (Ca):	140.00	Chloride (Cl):	17000.00
Sample Pressure (psig):	0	Magnesium (Mg):	12.20	Sulfate (SO ₄):	36.00
Specific Gravity (g/cm ³):	1.0226	Barium (Ba):	60.00	Dissolved CO ₂ :	201.96
pH:	5.8	Strontium (Sr):	-	Bicarbonate (HCO ₃):	774.70
Turbidity (NTU):	-	Sodium (Na):	10878.00	Carbonate (CO ₃):	-
		Potassium (K):	-	H ₂ S:	0.50
		Iron (Fe):	5.00	Phosphate (PO ₄):	-
		Manganese (Mn):	2.20	Silica (SiO ₂):	-
Calculated T.D.S. (mg/L)	29111	Lithium (Li):	-	Fluoride (F):	-
Molar Conductivity (μS/cm):	44107	Aluminum (Al):	-	Nitrate (NO ₃):	-
Resitivity (Mohm):	0.2267	Ammonia NH ₃ :	-	Lead (Pb):	-
				Zinc (Zn):	-
				Bromine (Br):	-
				Boron (B):	-

Test Conditions		Scale Values @ Test Conditions - Potential Amount of Scale in lb/1000bbl										
		Calcium Carbonate		Gypsum		Calcium Sulfate		Strontium Sulfate		Barium Sulfate		Calculated
		CaCO ₃		CaSO ₄ · 2H ₂ O		CaSO ₄		SrSO ₄		BaSO ₄		CO ₂
Temp °F	Gauge Press. psi	Sat Index	Scale	Sat Index	Scale	Sat Index	Scale	Sat Index	Scale	Sat Index	Scale	psi
68	0	0.01	-2.14	0.00	-3113.20	0.00	-3623.20	-	-	44.78	67.84	12.76
80	0	0.01	-1.95	0.00	-15.95	0.00	-3571.50	-	-	34.04	65.92	4.06
100	0	0.02	-1.70	0.00	-12.40	0.00	-3369.10	-	-	21.96	62.33	5.36
120	0	0.03	-1.51	0.00	-9.83	0.00	-3060.30	-	-	14.48	58.22	6.26
140	0	0.04	-1.36	0.00	-7.98	0.00	-2690.50	-	-	9.73	53.51	7.32
160	0	0.05	-1.24	0.00	-6.64	0.00	-2298.70	-	-	6.65	48.12	8.55
180	0	0.06	-1.16	0.00	-5.69	0.00	-1914.90	-	-	4.61	41.96	9.73
200	0	0.08	-1.10	0.00	-5.03	0.01	-1559.30	-	-	3.24	34.90	10.18
220	2.51	0.09	-1.08	0.00	-4.68	0.01	-1262.60	-	-	2.26	26.30	10.64
240	10.3	0.10	-1.06	0.00	-4.42	0.01	-988.76	-	-	1.62	16.83	11.14
260	20.76	0.12	-1.05	0.00	-4.29	0.02	-758.73	-	-	1.17	5.95	11.65
280	34.54	0.13	-1.06	0.00	-4.26	0.03	-569.90	-	-	0.85	-6.57	12.19
300	52.34	0.14	-1.08	0.00	-4.33	0.04	-417.99	-	-	0.63	-21.01	12.76

Conclusions:

Calcium Carbonate Scaling Index is negative from 80°F to 300°F
Gypsum Scaling Index is negative from 80°F to 300°F
Calcium Sulfate Scaling Index is negative from 80°F to 300°F
Strontium Sulfate scaling was not evaluated
Barium Sulfate NO CONCLUSION

Notes:

Multi-Chem Group, LLC

Multi-Chem Analytical Laboratory

1553 East Highway 40

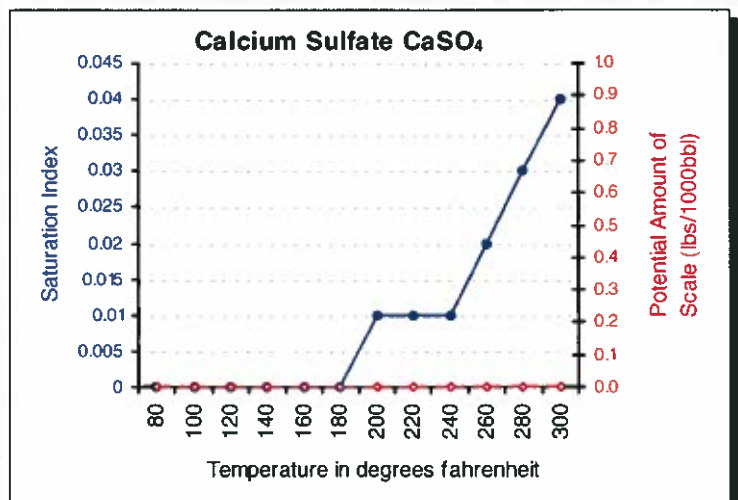
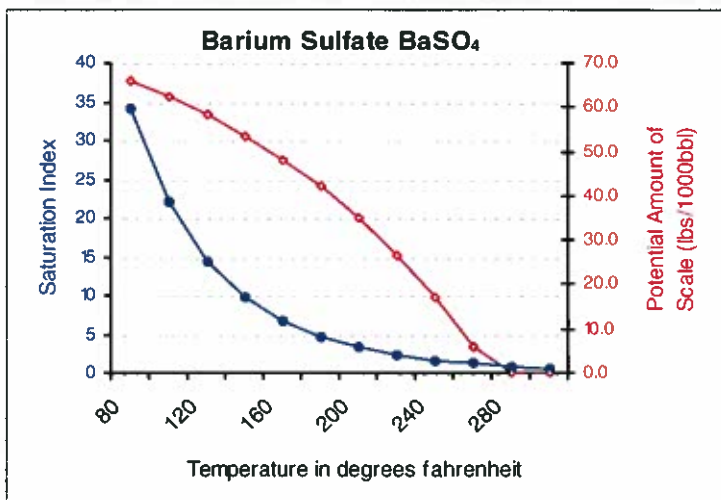
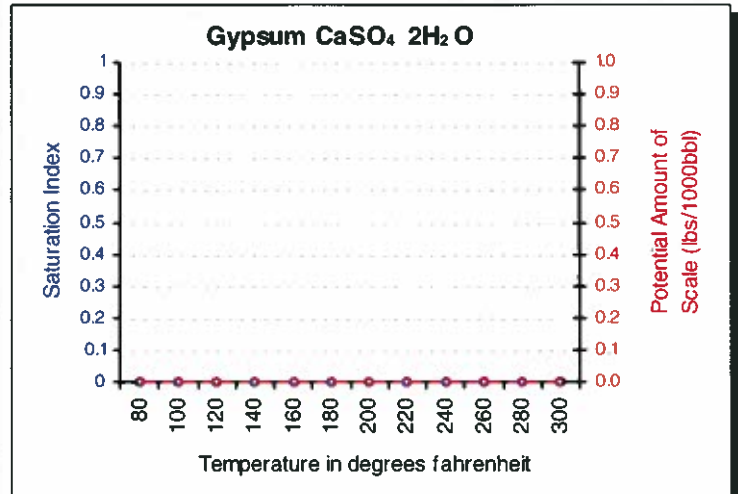
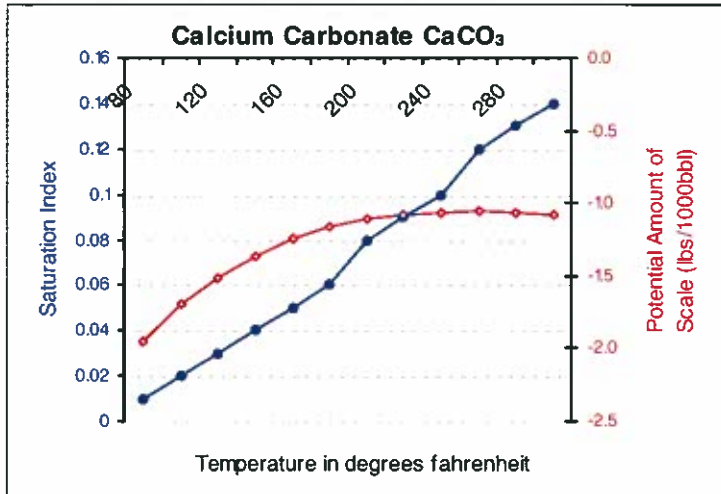
Vernal, UT 84078



Scale Prediction Graphs

Well Name: CURREY 16-11

Sample ID: WA-19902



Multi-Chem Group, LLC

Multi-Chem Analytical Laboratory

1553 East Highway 40

Vernal, UT 84078



multi-chem®

Water Analysis Report

Production Company: **OCCIDENTAL OIL & GAS COPR.**

Sample ID: **WA-20928**

Well Name: **CURRIER 26-15**

Sample Point: **Separator**

Sample Date: **1 /20/2009**

Sales Rep: **Ron Gates**

Lab Tech: **Peter Poulsen**

Sample Specifics		Analysis @ Properties in Sample Specifics			
Test Date:	2/4/2009	Cations	mg/L	Anions	mg/L
Temperature (°F):	49	Calcium (Ca):	60.00	Chloride (Cl):	17500.00
Sample Pressure (psig):	0	Magnesium (Mg):	12.20	Sulfate (SO ₄):	349.00
Specific Gravity (g/cm³):	1.0148	Barium (Ba):	1.00	Dissolved CO ₂ :	138.60
pH:	5.07	Strontium (Sr):	-	Bicarbonate (HCO ₃):	1348.00
Turbidity (NTU):	-	Sodium (Na):	11752.00	Carbonate (CO ₃):	-
		Potassium (K):	-	H ₂ S:	1.00
		Iron (Fe):	5.00	Phosphate (PO ₄):	-
		Manganese (Mn):	0.50	Silica (SiO ₂):	-
Calculated T.D.S. (mg/L)	31167	Lithium (Li):	-	Fluoride (F):	-
Molar Conductivity (µS/cm):	47223	Aluminum (Al):	-	Nitrate (NO ₃):	-
Resitivity (Mohm):	0.2118	Ammonia NH ₃ :	-	Lead (Pb):	-
				Zinc (Zn):	-
				Bromine (Br):	-
				Boron (B):	-

Test Conditions		Scale Values @ Test Conditions - Potential Amount of Scale in lb/1000bbl										
		Calcium Carbonate CaCO ₃		Gypsum CaSO ₄ · 2H ₂ O		Calcium Sulfate CaSO ₄		Strontium Sulfate SrSO ₄		Barium Sulfate BaSO ₄		Calculated CO ₂
		Sat Index	Scale	Sat Index	Scale	Sat Index	Scale	Sat Index	Scale	Sat Index	Scale	psi
Temp °F	Gauge Press. psi											
49	0	0.00	-5.97	0.01	-2958.30	0.01	-3543.10	-	-	11.21	1.55	34.79
80	0	0.00	-4.64	0.01	-16.23	0.01	-3544.80	-	-	5.41	1.38	9.33
100	0	0.00	-4.06	0.01	-12.67	0.01	-3343.60	-	-	3.49	1.21	12.57
120	0	0.00	-3.62	0.01	-10.08	0.01	-3034.70	-	-	2.30	0.96	14.92
140	0	0.00	-3.29	0.01	-8.19	0.01	-2663.30	-	-	1.54	0.59	17.71
160	0	0.00	-3.03	0.01	-6.80	0.01	-2268.80	-	-	1.05	0.08	21.02
180	0	0.00	-2.84	0.01	-5.78	0.02	-1881.20	-	-	0.73	-0.63	24.26
200	0	0.00	-2.70	0.01	-5.04	0.02	-1521.00	-	-	0.51	-1.62	25.77
220	2.51	0.00	-2.68	0.01	-4.61	0.03	-1219.00	-	-	0.35	-3.09	27.36
240	10.3	0.00	-2.63	0.01	-4.26	0.05	-939.36	-	-	0.25	-4.98	29.06
260	20.76	0.01	-2.62	0.01	-4.04	0.07	-703.05	-	-	0.18	-7.52	30.86
280	34.54	0.01	-2.65	0.01	-3.94	0.11	-507.69	-	-	0.13	-10.92	32.77
300	52.34	0.01	-2.71	0.01	-3.93	0.17	-349.13	-	-	0.10	-15.43	34.79

Conclusions:

Calcium Carbonate Scaling Index is negative from 80°F to 300°F

Gypsum Scaling Index is negative from 80°F to 300°F

Calcium Sulfate Scaling Index is negative from 80°F to 300°F

Strontium Sulfate scaling was not evaluated

Barium Sulfate NO CONCLUSION

Notes:

Multi-Chem Group, LLC

Multi-Chem Analytical Laboratory

1553 East Highway 40

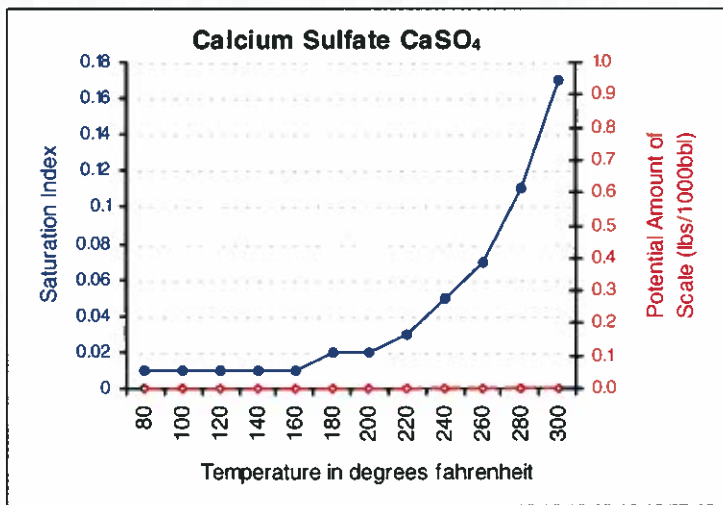
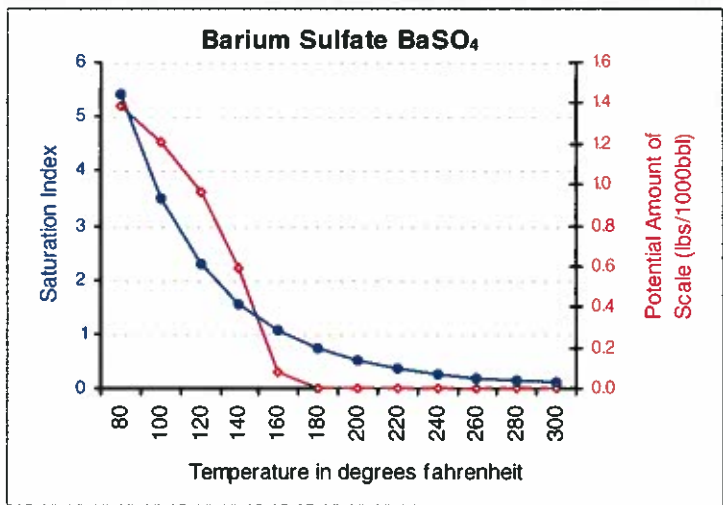
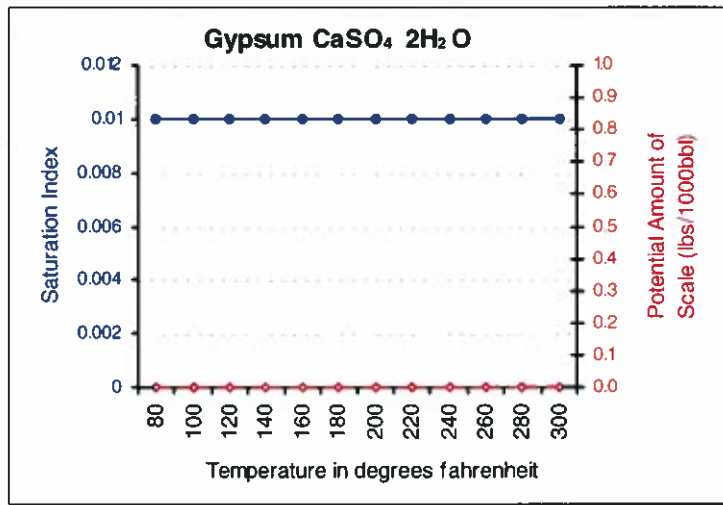
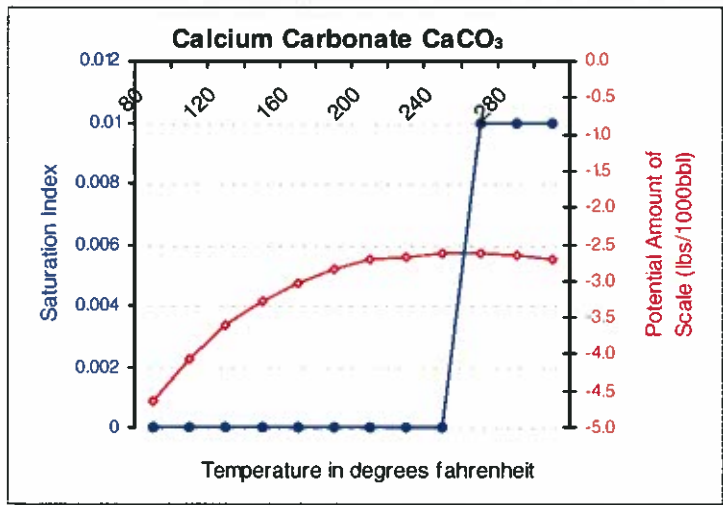
Vernal, UT 84078



Scale Prediction Graphs

Well Name: **CURRIER 26-15**

Sample ID: **WA-20928**



Multi-Chem Group, LLC

Multi-Chem Analytical Laboratory

1553 East Highway 40

Vernal, UT 84078



multi-chem®

Water Analysis Report

Production Company: **OCCIDENTAL OIL & GAS COPR.**

Sample ID: **WA-20925**

Well Name: **DAVID 23-6**

Sample Point: **Separator**

Sample Date: **1 /20/2009**

Sales Rep: **Ron Gates**

Lab Tech: **Peter Poulsen**

Sample Specifics		Analysis @ Properties in Sample Specifics			
Test Date:	2/4/2009	Cations	mg/L	Anions	mg/L
Temperature (°F):	45	Calcium (Ca):	140.00	Chloride (Cl):	20000.00
Sample Pressure (psig):	0	Magnesium (Mg):	12.20	Sulfate (SO ₄):	67.00
Specific Gravity (g/cm³):	1.0148	Barium (Ba):	15.00	Dissolved CO ₂ :	154.44
pH:	6.07	Strontium (Sr):	-	Bicarbonate (HCO ₃):	610.00
Turbidity (NTU):	-	Sodium (Na):	12823.00	Carbonate (CO ₃):	-
Calculated T.D.S. (mg/L)	33858	Potassium (K):	-	H ₂ S:	0.50
Molar Conductivity (µS/cm):	51300	Iron (Fe):	35.80	Phosphate (PO ₄):	-
Resitivity (Mohm):	0.1949	Manganese (Mn):	0.30	Silica (SiO ₂):	-
		Lithium (Li):	-	Fluoride (F):	-
		Aluminum (Al):	-	Nitrate (NO ₃):	-
		Ammonia NH ₃ :	-	Lead (Pb):	-
				Zinc (Zn):	-
				Bromine (Br):	-
				Boron (B):	-

Test Conditions		Scale Values @ Test Conditions - Potential Amount of Scale in lb/1000bbl											
		Calcium Carbonate CaCO ₃		Gypsum CaSO ₄ · 2H ₂ O		Calcium Sulfate CaSO ₄		Strontium Sulfate SrSO ₄		Barium Sulfate BaSO ₄		Calculated CO ₂	
		Sat Index	Scale	Sat Index	Scale	Sat Index	Scale	Sat Index	Scale	Sat Index	Scale	psi	
Temp °F	Gauge Press. psi												
45	0	0.01	-2.76	0.00	-3072.20	0.00	-3657.90	-	-	32.10	24.52	7.40	
80	0	0.03	-2.05	0.00	-16.52	0.00	-3693.70	-	-	13.98	23.28	2.61	
100	0	0.04	-1.77	0.00	-12.88	0.00	-3487.40	-	-	9.00	22.07	3.40	
120	0	0.06	-1.56	0.00	-10.25	0.00	-3170.60	-	-	5.91	20.36	3.93	
140	0	0.08	-1.40	0.00	-8.34	0.00	-2789.90	-	-	3.96	17.97	4.55	
160	0	0.10	-1.27	0.00	-6.97	0.00	-2385.70	-	-	2.70	14.76	5.27	
180	0	0.13	-1.17	0.01	-5.99	0.01	-1988.90	-	-	1.87	10.54	5.94	
200	0	0.15	-1.09	0.01	-5.31	0.01	-1620.60	-	-	1.31	5.15	6.16	
220	2.51	0.18	-1.06	0.01	-4.96	0.01	-1313.30	-	-	0.91	-2.11	6.38	
240	10.3	0.20	-1.03	0.01	-4.69	0.02	-1028.20	-	-	0.65	-10.60	6.62	
260	20.76	0.22	-1.01	0.01	-4.55	0.03	-788.01	-	-	0.47	-20.84	6.87	
280	34.54	0.25	-1.00	0.01	-4.51	0.04	-589.99	-	-	0.34	-33.08	7.13	
300	52.34	0.26	-1.01	0.01	-4.56	0.06	-429.82	-	-	0.25	-47.59	7.40	

Conclusions:

Calcium Carbonate Scaling Index is negative from 80°F to 300°F

Gypsum Scaling Index is negative from 80°F to 300°F

Calcium Sulfate Scaling Index is negative from 80°F to 300°F

Strontium Sulfate scaling was not evaluated

Barium Sulfate NO CONCLUSION

Notes:

Multi-Chem Group, LLC

Multi-Chem Analytical Laboratory

1553 East Highway 40

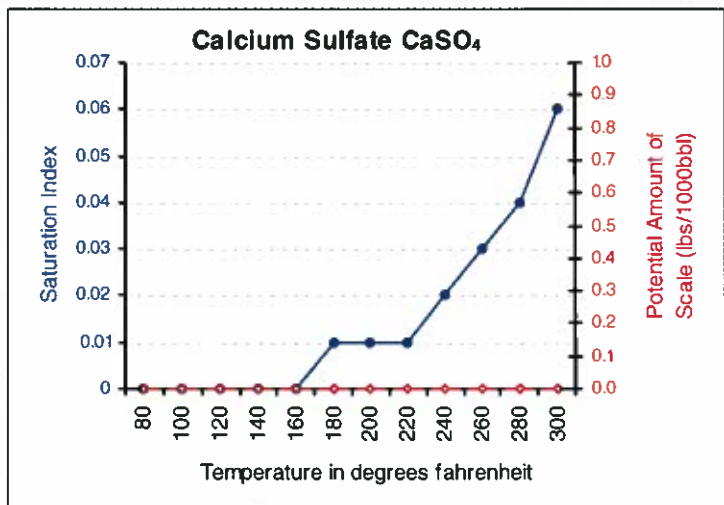
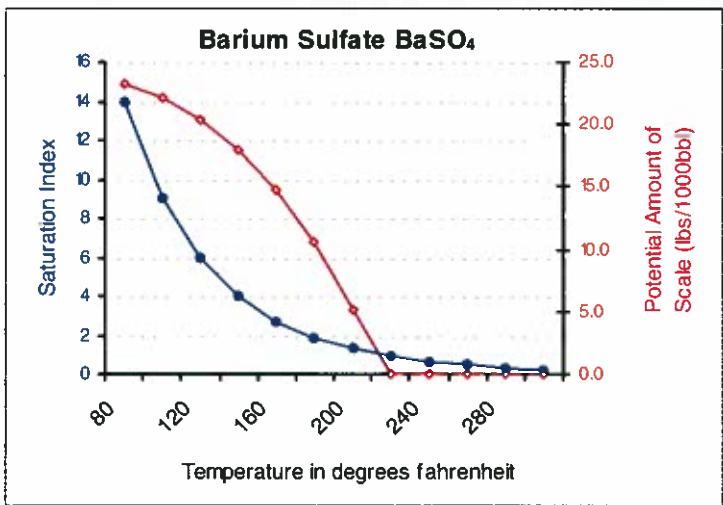
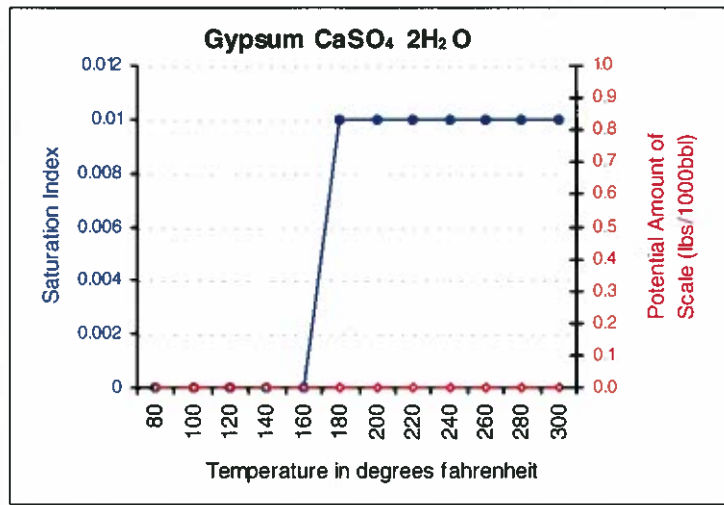
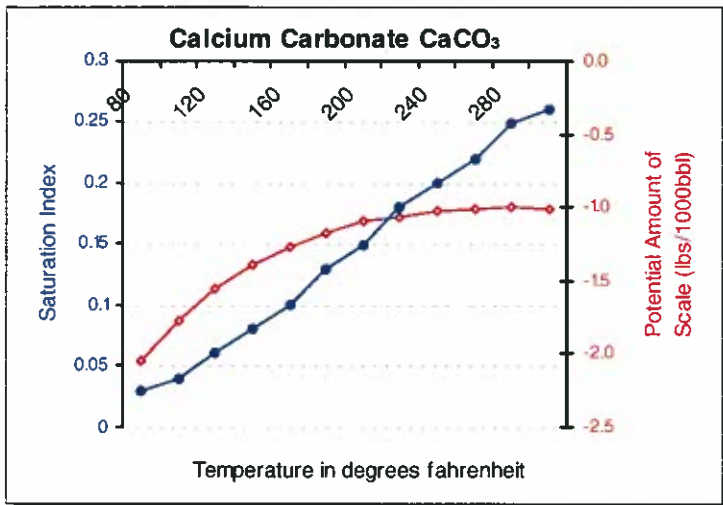
Vernal, UT 84078



Scale Prediction Graphs

Well Name: DAVID 23-6

Sample ID: WA-20925



Multi-Chem Group, LLC

Multi-Chem Analytical Laboratory
1553 East Highway 40
Vernal, UT 84078



Water Analysis Report

Production Company: **OXY (152)**

Sample ID: **WA-20314**

Well Name: **Espeanza Federal 8-3**

Sample Point: **separator**

Sample Date: **1 /22/2009**

Sales Rep: **Ron Gates**

Lab Tech: **Peter Poulsen**

Sample Specifics		Analysis @ Properties in Sample Specifics			
Test Date:	1/22/2009	Cations	mg/L	Anions	mg/L
Temperature (°F):	67	Calcium (Ca):	200.00	Chloride (Cl):	15000.00
Sample Pressure (psig):		Magnesium (Mg):	12.20	Sulfate (SO ₄):	24.00
Specific Gravity (g/cm ³):	1.0103	Barium (Ba):	77.00	Dissolved CO ₂ :	198.00
pH:	6.1	Strontium (Sr):	-	Bicarbonate (HCO ₃):	976.00
Turbidity (NTU):	-	Sodium (Na):	9726.00	Carbonate (CO ₃):	-
		Potassium (K):	-	H ₂ S:	1.50
		Iron (Fe):	1.00	Phosphate (PO ₄):	-
		Manganese (Mn):	2.50	Silica (SiO ₂):	-
Calculated T.D.S. (mg/L)	26218	Lithium (Li):	-	Fluoride (F):	-
Molar Conductivity (μS/cm):	39725	Aluminum (Al):	-	Nitrate (NO ₃):	-
Resitivity (Mohm):	0.2517	Ammonia NH ₃ :	-	Lead (Pb):	-
				Zinc (Zn):	-
				Bromine (Br):	-
				Boron (B):	-

Test Conditions		Scale Values @ Test Conditions - Potential Amount of Scale in lb/1000bbl										
Temp °F	Gauge Press. psi	Calcium Carbonate CaCO ₃		Gypsum CaSO ₄ · 2H ₂ O		Calcium Sulfate CaSO ₄		Strontium Sulfate SrSO ₄		Barium Sulfate BaSO ₄		Calculated CO ₂
		Sat Index	Scale	Sat Index	Scale	Sat Index	Scale	Sat Index	Scale	Sat Index	Scale	psi
67		0.06	-1.36	0.00	-2888.60	0.00	-3400.90	-	-	42.70	46.45	11.55
80	0	0.08	-1.21	0.00	-15.21	0.00	-3350.10	-	-	31.74	45.34	4.10
100	0	0.12	-1.02	0.00	-11.83	0.00	-3156.40	-	-	20.51	43.40	5.33
120	0	0.16	-0.88	0.00	-9.41	0.00	-2861.20	-	-	13.55	41.10	6.16
140	0	0.21	-0.76	0.00	-7.68	0.00	-2508.30	-	-	9.13	38.35	7.12
160	0	0.26	-0.66	0.00	-6.47	0.00	-2135.30	-	-	6.26	35.01	8.24
180	0	0.32	-0.58	0.00	-5.64	0.00	-1770.90	-	-	4.36	30.96	9.28
200	0	0.38	-0.52	0.00	-5.09	0.00	-1434.40	-	-	3.07	26.05	9.62
220	2.51	0.43	-0.48	0.00	-4.84	0.01	-1154.50	-	-	2.15	19.73	9.96
240	10.3	0.49	-0.43	0.00	-4.67	0.01	-897.58	-	-	1.54	12.39	10.33
260	20.76	0.54	-0.40	0.00	-4.62	0.02	-682.93	-	-	1.12	3.59	10.72
280	34.54	0.58	-0.37	0.00	-4.65	0.02	-507.88	-	-	0.82	-6.87	11.13
300	52.34	0.62	-0.35	0.00	-4.73	0.04	-368.15	-	-	0.60	-19.25	11.55

Conclusions:

Calcium Carbonate Scaling Index is negative from 80°F to 300°F

Gypsum Scaling Index is negative from 80°F to 300°F

Calcium Sulfate Scaling Index is negative from 80°F to 300°F

Strontium Sulfate scaling was not evaluated

Barium Sulfate NO CONCLUSION

Notes:

Tubing Pressure 288

Multi-Chem Group, LLC

Multi-Chem Analytical Laboratory

1553 East Highway 40

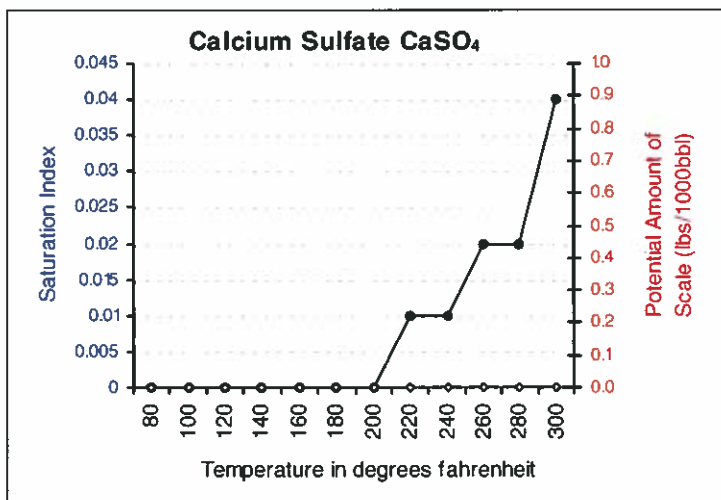
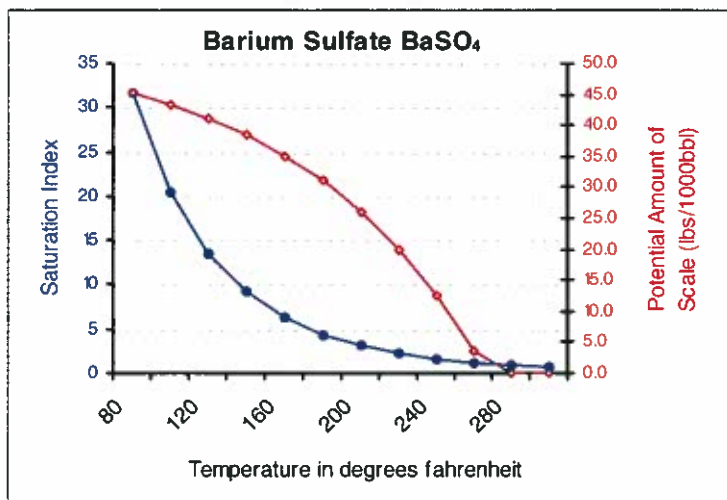
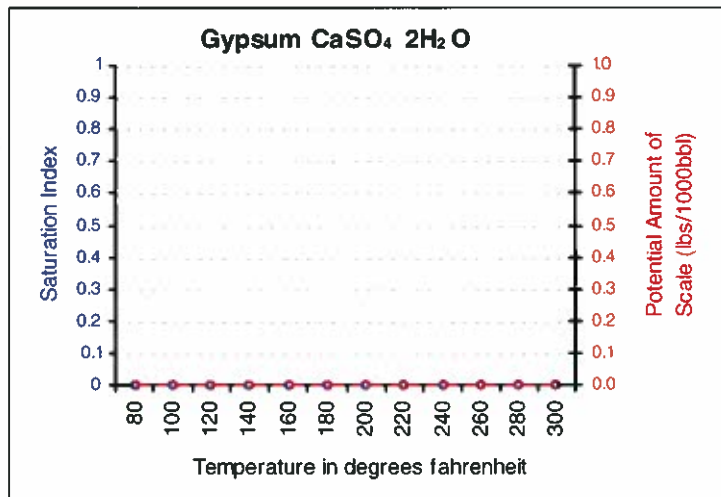
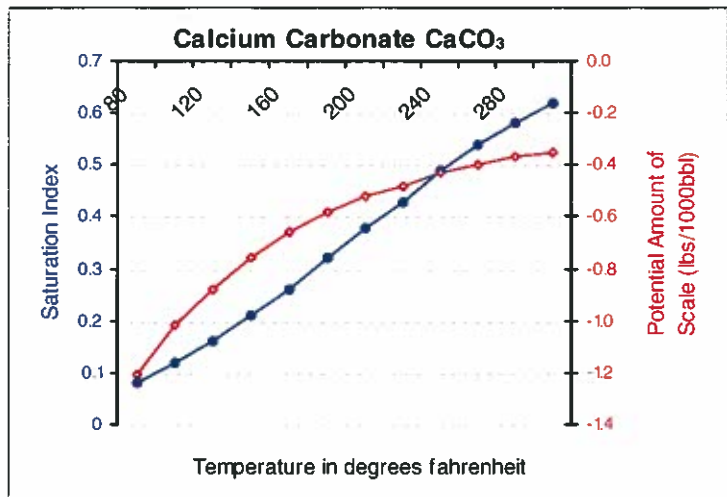
Vernal, UT 84078



Scale Prediction Graphs

Well Name: **Espeanza Federal 8-3**

Sample ID: **WA-20314**



Multi-Chem Group, LLC

Multi-Chem Analytical Laboratory

1553 East Highway 40

Vernal, UT 84078



Water Analysis Report

Production Company: **OXY USA WTP LP**

Well Name: **ESPERANZA 9-5**

Sample Point: **n/a**

Sample Date: **1 /28/2010**

Sales Rep: **Bert Wollerman**

Lab Tech: **John Keel**

Sample ID: **WA-36468**

Sample Specifics	
Test Date:	2/5/2010
Temperature (°F):	63
Sample Pressure (psig):	0
Specific Gravity (g/cm³):	1.0120
pH:	6.7
Turbidity (NTU):	-
Calculated T.D.S. (mg/L):	16260
Molar Conductivity (µS/cm):	24636
Resistivity (Mohm):	0.4059

Analysis @ Properties in Sample Specifics			
Cations	mg/L	Anions	mg/L
Calcium (Ca):	120.00	Chloride (Cl):	9000.00
Magnesium (Mg):	-	Sulfate (SO ₄):	2.00
Barium (Ba):	25.00	Dissolved CO ₂ :	79.20
Strontium (Sr):	-	Bicarbonate (HCO ₃):	1025.00
Sodium (Na):	5988.00	Carbonate (CO ₃):	-
Potassium (K):	-	H ₂ S:	-
Iron (Fe):	20.34	Phosphate (PO ₄):	-
Manganese (Mn):	0.37	Silica (SiO ₂):	-
Lithium (Li):	-	Fluoride (F):	-
Aluminum (Al):	-	Nitrate (NO ₃):	-
Ammonia NH ₃ :	-	Lead (Pb):	-
		Zinc (Zn):	-
		Bromine (Br):	-
		Boron (B):	-

Test Conditions		Scale Values @ Test Conditions - Potential Amount of Scale in lb/1000bbl										
		Calcium Carbonate CaCO ₃		Gypsum CaSO ₄ · 2H ₂ O		Calcium Sulfate CaSO ₄		Strontium Sulfate SrSO ₄		Barium Sulfate BaSO ₄		Calculated CO ₂
		Sat Index	Scale	Sat Index	Scale	Sat Index	Scale	Sat Index	Scale	Sat Index	Scale	psi
Temp °F	Gauge Press. psi											
63	0	0.28	-1.42	0.00	-2589.60	0.00	-3059.90	-	-	1.87	1.86	4.48
80	0	0.41	-1.04	0.00	-26.05	0.00	-3008.40	-	-	1.28	0.84	1.91
100	0	0.57	-0.67	0.00	-22.01	0.00	-2833.00	-	-	0.83	-0.74	2.41
120	0	0.75	-0.36	0.00	-18.85	0.00	-2569.80	-	-	0.56	-2.79	2.72
140	0	0.94	-0.07	0.00	-16.33	0.00	-2257.50	-	-	0.38	-5.40	3.09
160	0	1.16	0.19	0.00	-14.31	0.00	-1929.00	-	-	0.26	-8.64	3.52
180	0	1.37	0.45	0.00	-12.66	0.00	-1609.20	-	-	0.18	-12.57	3.90
200	0	1.58	0.69	0.00	-11.30	0.00	-1314.40	-	-	0.13	-17.27	3.98
220	2.51	1.75	0.92	0.00	-10.29	0.00	-1067.50	-	-	0.09	-23.28	4.06
240	10.3	1.92	1.14	0.00	-9.35	0.00	-842.63	-	-	0.07	-29.94	4.16
260	20.76	2.06	1.35	0.00	-8.57	0.00	-654.21	-	-	0.05	-37.66	4.26
280	34.54	2.16	1.52	0.00	-7.92	0.00	-499.68	-	-	0.04	-46.59	4.37
300	52.34	2.22	1.67	0.00	-7.39	0.00	-375.12	-	-	0.03	-56.89	4.48

Conclusions:

Calcium Carbonate scale is indicated. See graph for appropriate temperature ranges.

Gypsum Scaling Index is negative from 80°F to 300°F

Calcium Sulfate Scaling Index is negative from 80°F to 300°F

Strontium Sulfate scaling was not evaluated

Barium Sulfate NO CONCLUSION

Notes:

Multi-Chem Group, LLC

Multi-Chem Analytical Laboratory

1553 East Highway 40

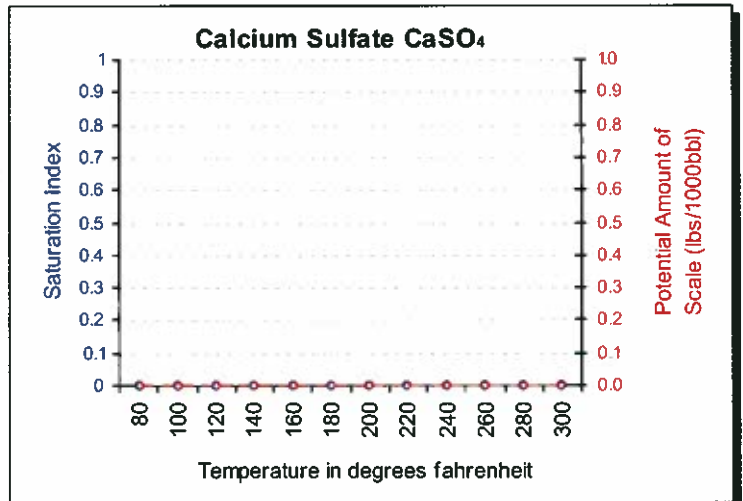
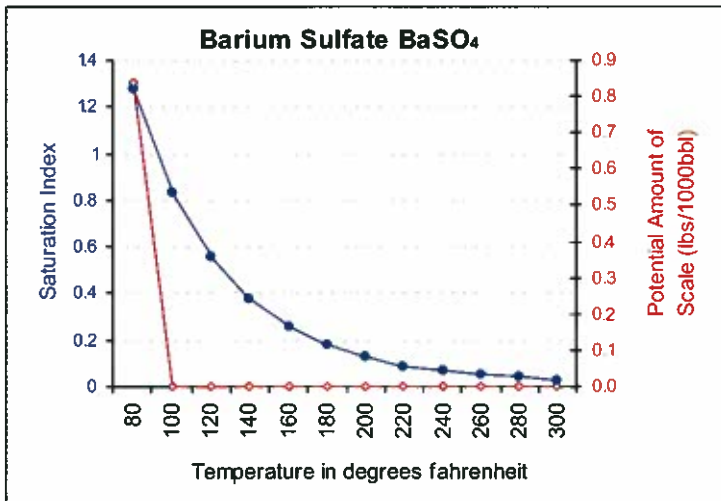
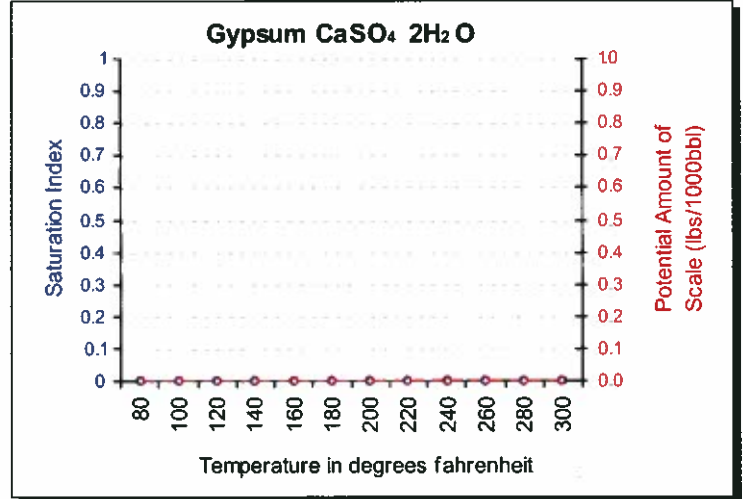
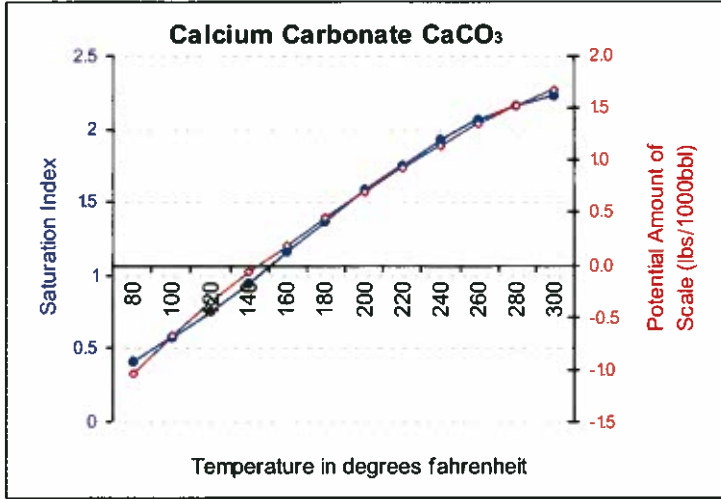
Vernal, UT 84078



Scale Prediction Graphs

Well Name: **ESPERANZA 9-5**

Sample ID: **WA-36468**



Multi-Chem Group, LLC

Multi-Chem Analytical Laboratory

1553 East Highway 40

Vernal, UT 84078



Water Analysis Report

Production Company: **OCCIDENTAL OIL & GAS COPR.**

Sample ID: **WA-20328**

Well Name: **Gipp**

Sample Point: **13-15 separator**

Sample Date: **1/22/2009**

Sales Rep: **Ron Gates**

Lab Tech: **Peter Poulsen**

Sample Specifics		Analysis @ Properties in Sample Specifics			
Test Date:	1/22/2009	Cations	mg/L	Anions	mg/L
Temperature (°F):	58	Calcium (Ca):	300.00	Chloride (Cl):	12000.00
Sample Pressure (psig):		Magnesium (Mg):	12.20	Sulfate (SO ₄):	167.00
Specific Gravity (g/cm ³):	1.0118	Barium (Ba):	10.00	Dissolved CO ₂ :	138.60
pH:	6.1	Strontium (Sr):	-	Bicarbonate (HCO ₃):	793.00
Turbidity (NTU):	-	Sodium (Na):	7694.00	Carbonate (CO ₃):	-
		Potassium (K):	-	H ₂ S:	1.00
		Iron (Fe):	5.00	Phosphate (PO ₄):	-
		Manganese (Mn):	7.70	Silica (SiO ₂):	-
Calculated T.D.S. (mg/L)	21129	Lithium (Li):	-	Fluoride (F):	-
Molar Conductivity (μS/cm):	32013	Aluminum (Al):	-	Nitrate (NO ₃):	-
Resitivity (Mohm):	0.3124	Ammonia NH ₃ :	-	Lead (Pb):	-
				Zinc (Zn):	-
				Bromine (Br):	-
				Boron (B):	-

Test Conditions		Scale Values @ Test Conditions - Potential Amount of Scale in lb/1000bbl										
		Calcium Carbonate		Gypsum		Calcium Sulfate		Strontium Sulfate		Barium Sulfate		Calculated
		CaCO ₃		CaSO ₄ · 2H ₂ O		CaSO ₄		SrSO ₄		BaSO ₄		CO ₂
Temp °F	Gauge Press. psi	Sat Index	Scale	Sat Index	Scale	Sat Index	Scale	Sat Index	Scale	Sat Index	Scale	psi
58		0.06	-0.90	0.03	-2396.10	0.02	-2960.00	-	-	54.27	16.66	9.44
80	0	0.10	-0.72	0.02	-14.34	0.02	-2916.80	-	-	32.73	16.45	3.33
100	0	0.15	-0.60	0.02	-11.12	0.02	-2733.20	-	-	21.22	16.15	4.33
120	0	0.20	-0.50	0.03	-8.82	0.02	-2454.40	-	-	14.07	15.72	5.01
140	0	0.26	-0.43	0.03	-7.17	0.02	-2122.10	-	-	9.51	15.12	5.80
160	0	0.33	-0.36	0.03	-6.00	0.03	-1771.90	-	-	6.55	14.27	6.71
180	0	0.40	-0.30	0.04	-5.17	0.04	-1431.00	-	-	4.58	13.12	7.56
200	0	0.48	-0.25	0.04	-4.61	0.06	-1117.60	-	-	3.25	11.56	7.85
220	2.51	0.55	-0.22	0.04	-4.32	0.08	-857.02	-	-	2.28	9.32	8.13
240	10.3	0.62	-0.19	0.04	-4.09	0.13	-620.52	-	-	1.65	6.49	8.43
260	20.76	0.68	-0.15	0.04	-3.98	0.19	-424.67	-	-	1.21	2.79	8.76
280	34.54	0.74	-0.13	0.04	-3.96	0.30	-266.81	-	-	0.89	-2.00	9.09
300	52.34	0.79	-0.11	0.04	-4.00	0.46	-142.72	-	-	0.66	-8.13	9.44

Conclusions:

Calcium Carbonate Scaling Index is negative from 80°F to 300°F

Gypsum Scaling Index is negative from 80°F to 300°F

Calcium Sulfate Scaling Index is negative from 80°F to 300°F

Strontium Sulfate scaling was not evaluated

Barium Sulfate NO CONCLUSION

Notes:

Multi-Chem Group, LLC

Multi-Chem Analytical Laboratory

1553 East Highway 40

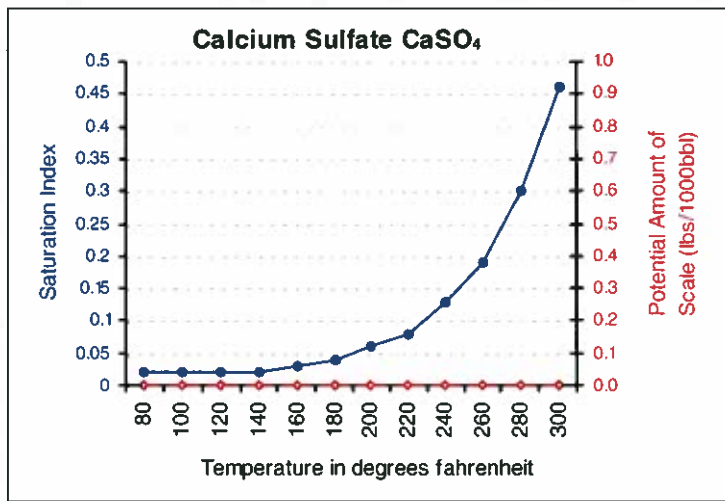
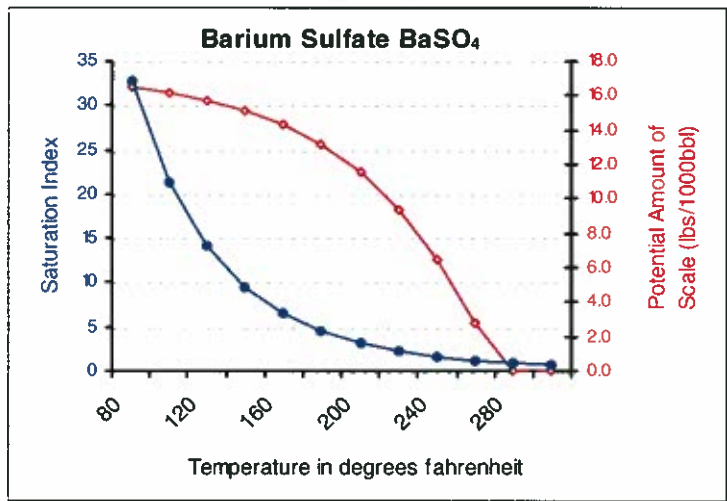
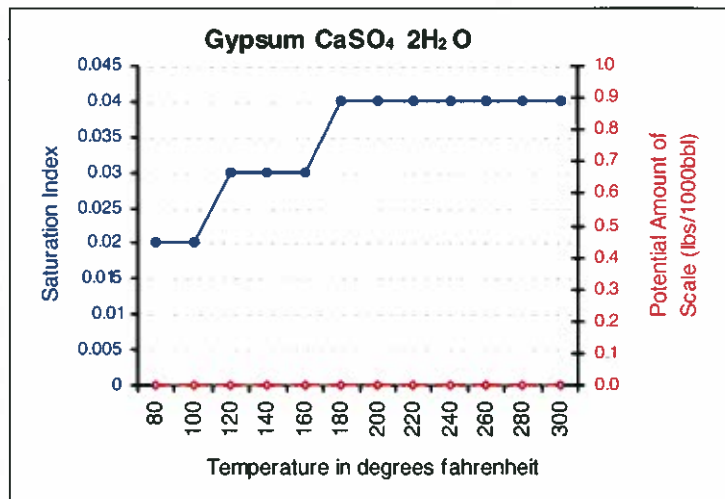
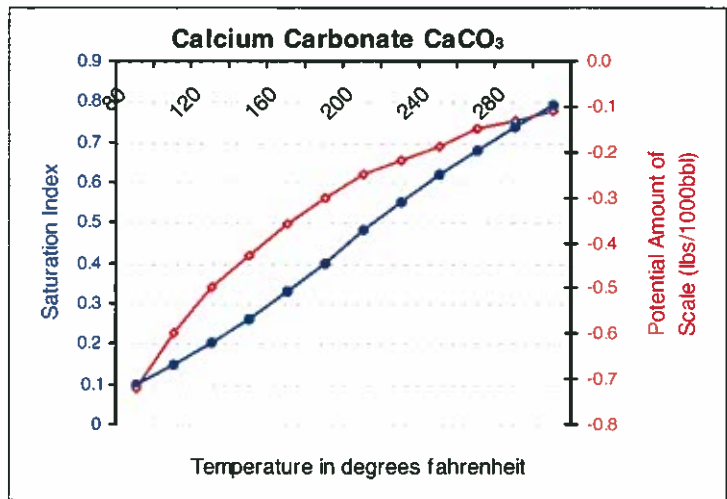
Vernal, UT 84078



Scale Prediction Graphs

Well Name: Gipp

Sample ID: WA-20328



Multi-Chem Group, LLC

Multi-Chem Analytical Laboratory
1553 East Highway 40
Vernal, UT 84078



Water Analysis Report

Production Company: **OXY USA WTP LP (152)**
Well Name: **pad # Gipp 18-12**
Sample Point: **water production tank**
Sample Date: **2 /15/2010**
Sales Rep: **Bert Wollerman**
Lab Tech: **John Keel**

Sample ID: **WA-37179**

Sample Specifics		Analysis @ Properties in Sample Specifics			
Test Date:	2/19/2010	Cations	mg/L	Anions	mg/L
Temperature (°F):	50	Calcium (Ca):	240.00	Chloride (Cl):	5000.00
Sample Pressure (psig):	0	Magnesium (Mg):	48.80	Sulfate (SO ₄):	85.00
Specific Gravity (g/cm ³):	1.0170	Barium (Ba):	99.00	Dissolved CO ₂ :	138.00
pH:	7.2	Strontium (Sr):	-	Bicarbonate (HCO ₃):	1220.00
Turbidity (NTU):	-	Sodium (Na):	3233.00	Carbonate (CO ₃):	-
		Potassium (K):	-	H ₂ S:	-
		Iron (Fe):	63.27	Phosphate (PO ₄):	-
		Manganese (Mn):	2.14	Silica (SiO ₂):	-
Calculated T.D.S. (mg/L)	10129	Lithium (Li):	-	Fluoride (F):	-
Molar Conductivity (μS/cm):	15347	Aluminum (Al):	-	Nitrate (NO ₃):	-
Resitivity (Mohm):	0.6516	Ammonia NH ₃ :	-	Lead (Pb):	-
				Zinc (Zn):	-
				Bromine (Br):	-
				Boron (B):	-

Test Conditions		Scale Values @ Test Conditions - Potential Amount of Scale in lb/1000bbl										
		Calcium Carbonate CaCO ₃		Gypsum CaSO ₄ · 2H ₂ O		Calcium Sulfate CaSO ₄		Strontium Sulfate SrSO ₄		Barium Sulfate BaSO ₄		Calculated CO ₂
		Sat Index	Scale	Sat Index	Scale	Sat Index	Scale	Sat Index	Scale	Sat Index	Scale	psi
Temp °F	Gauge Press. psi											
50	0	2.13	1.00	0.02	-1920.40	0.01	-2393.30	-	-	552.62	162.09	1.92
80	0	4.01	2.15	0.01	-1.03	0.01	-2377.80	-	-	278.50	157.08	0.88
100	0	5.44	2.83	0.01	0.31	0.01	-2226.40	-	-	182.55	153.34	1.09
120	0	6.89	3.43	0.02	1.31	0.01	-2000.50	-	-	122.64	149.46	1.23
140	0	8.39	4.02	0.02	2.12	0.01	-1733.80	-	-	84.28	145.51	1.38
160	0	9.89	4.60	0.02	2.79	0.02	-1455.00	-	-	59.14	141.50	1.56
180	0	11.30	5.16	0.02	3.36	0.02	-1185.00	-	-	42.26	137.38	1.72
200	0	12.56	5.69	0.02	3.85	0.03	-937.95	-	-	30.71	133.08	1.75
220	2.51	13.53	6.22	0.02	4.28	0.05	-730.40	-	-	22.21	128.36	1.77
240	10.3	14.36	6.64	0.02	4.59	0.07	-544.33	-	-	16.50	123.13	1.80
260	20.76	14.95	6.96	0.02	4.80	0.10	-389.71	-	-	12.38	117.24	1.84
280	34.54	15.28	7.17	0.02	4.90	0.16	-263.97	-	-	9.35	110.53	1.88
300	52.34	15.37	7.24	0.02	4.89	0.26	-163.85	-	-	7.10	102.87	1.92

Conclusions:

Calcium Carbonate scale is indicated at all temperatures from 80°F to 300°F
Gypsum Scaling Index is negative from 80°F to 300°F
Calcium Sulfate Scaling Index is negative from 80°F to 300°F
Strontium Sulfate scaling was not evaluated
Barium Sulfate scale is indicated at all temperatures from 80°F to 300°F

Notes:

Multi-Chem Group, LLC

Multi-Chem Analytical Laboratory

1553 East Highway 40

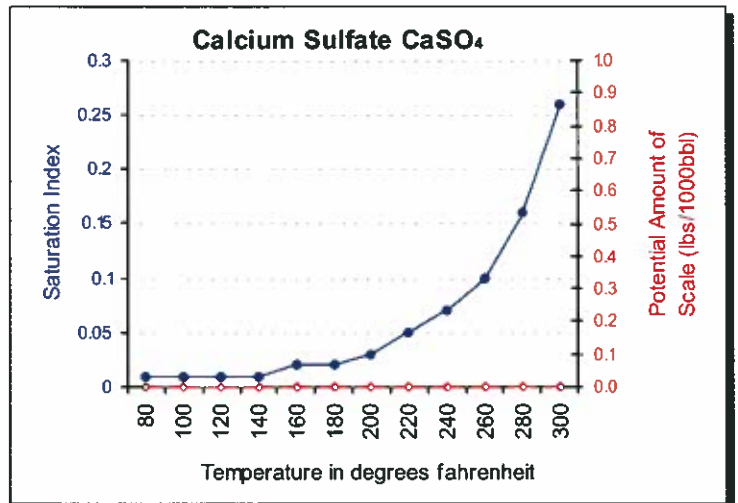
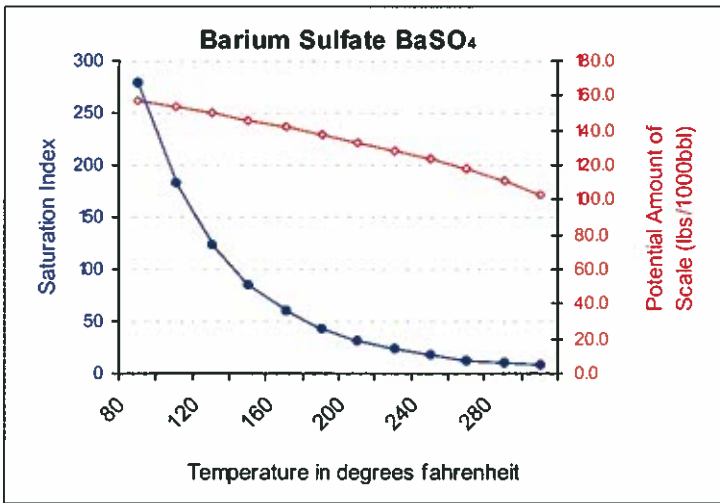
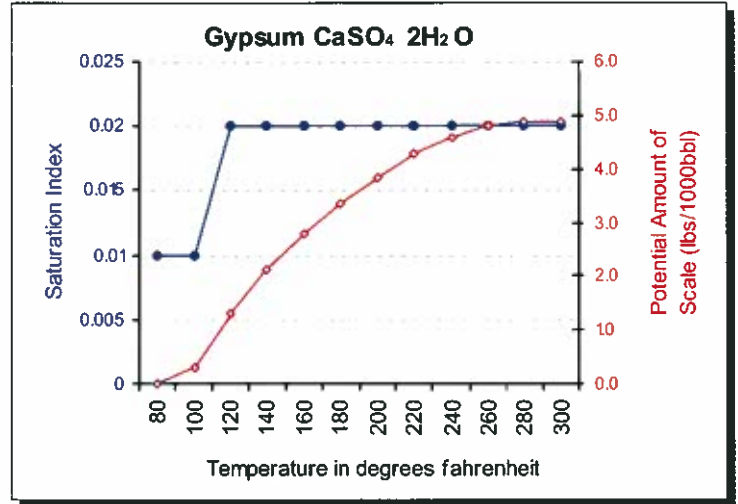
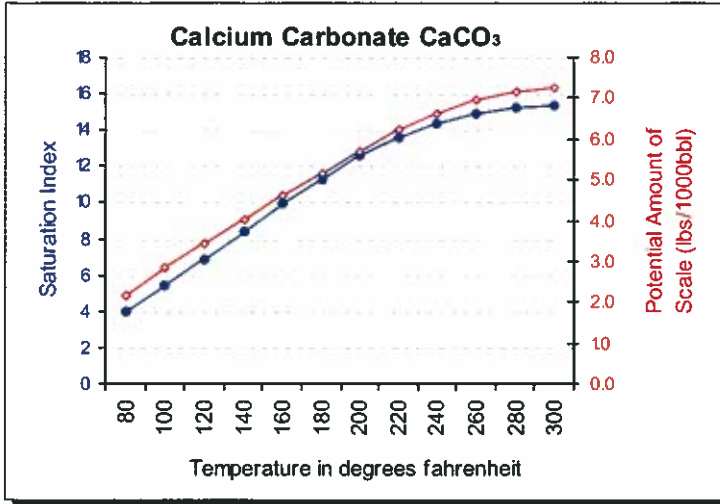
Vernal, UT 84078



Scale Prediction Graphs

Well Name: pad # Gipp 18-12

Sample ID: WA-37179



Multi-Chem Group, LLC

Multi-Chem Analytical Laboratory
1553 East Highway 40
Vernal, UT 84078



Water Analysis Report

Production Company: **OCCIDENTAL OIL & GAS COPR.**

Sample ID: **WA-21271**

Well Name: **GUNDERSON FEDERAL 12-7**

Sample Point: **Separator**

Sample Date: **1 /27/2009**

Sales Rep: **Ron Gates**

Lab Tech: **Peter Poulsen**

Sample Specifics		Analysis @ Properties in Sample Specifics			
Test Date:	2/10/2009	Cations	mg/L	Anions	mg/L
Temperature (°F):	65	Calcium (Ca):	960.00	Chloride (Cl):	20000.00
Sample Pressure (psig):	0	Magnesium (Mg):	73.20	Sulfate (SO ₄):	31.00
Specific Gravity (g/cm ³):	1.0213	Barium (Ba):	236.00	Dissolved CO ₂ :	146.52
pH:	6.2	Strontium (Sr):	-	Bicarbonate (HCO ₃):	396.50
Turbidity (NTU):	-	Sodium (Na):	11563.00	Carbonate (CO ₃):	-
		Potassium (K):	-	H ₂ S:	0.50
		Iron (Fe):	5.00	Phosphate (PO ₄):	-
		Manganese (Mn):	0.50	Silica (SiO ₂):	-
Calculated T.D.S. (mg/L)	33412	Lithium (Li):	-	Fluoride (F):	-
Molar Conductivity (μS/cm):	50625	Aluminum (Al):	-	Nitrate (NO ₃):	-
Resitivity (Mohm):	0.1975	Ammonia NH ₃ :	-	Lead (Pb):	-
				Zinc (Zn):	-
				Bromine (Br):	-
				Boron (B):	-

Test Conditions		Scale Values @ Test Conditions - Potential Amount of Scale in lb/1000bbl										
		Calcium Carbonate CaCO ₃		Gypsum CaSO ₄ · 2H ₂ O		Calcium Sulfate CaSO ₄		Strontium Sulfate SrSO ₄		Barium Sulfate BaSO ₄		Calculated CO ₂
		Sat Index	Scale	Sat Index	Scale	Sat Index	Scale	Sat Index	Scale	Sat Index	Scale	psi
Temp °F	Gauge Press. psi											
65	0	0.14	-0.30	0.01	-2149.10	0.01	-2747.50	-	-	120.27	52.90	3.92
80	0	0.19	-0.25	0.01	-3.82	0.01	-2698.10	-	-	84.62	51.64	1.46
100	0	0.27	-0.20	0.01	-2.78	0.01	-2507.30	-	-	54.12	49.96	1.88
120	0	0.36	-0.16	0.01	-2.08	0.01	-2215.50	-	-	35.41	48.28	2.16
140	0	0.44	-0.12	0.01	-1.60	0.01	-1869.90	-	-	23.64	46.53	2.49
160	0	0.53	-0.10	0.01	-1.27	0.01	-1511.40	-	-	16.08	44.65	2.87
180	0	0.62	-0.07	0.01	-1.03	0.02	-1171.60	-	-	11.11	42.54	3.22
200	0	0.70	-0.06	0.01	-0.85	0.02	-871.35	-	-	7.79	40.10	3.32
220	2.51	0.76	-0.04	0.02	-0.75	0.03	-636.76	-	-	5.42	37.27	3.43
240	10.3	0.81	-0.03	0.02	-0.66	0.05	-437.13	-	-	3.89	33.53	3.54
260	20.76	0.84	-0.03	0.02	-0.59	0.08	-287.01	-	-	2.81	28.75	3.66
280	34.54	0.87	-0.02	0.02	-0.54	0.12	-179.37	-	-	2.05	22.62	3.79
300	52.34	0.87	-0.02	0.02	-0.51	0.20	-105.32	-	-	1.51	14.70	3.92

Conclusions:

Calcium Carbonate Scaling Index is negative from 80°F to 300°F

Gypsum Scaling Index is negative from 80°F to 300°F

Calcium Sulfate Scaling Index is negative from 80°F to 300°F

Strontium Sulfate scaling was not evaluated

Barium Sulfate scale is indicated at all temperatures from 80°F to 300°F

Notes:

Multi-Chem Group, LLC

Multi-Chem Analytical Laboratory

1553 East Highway 40

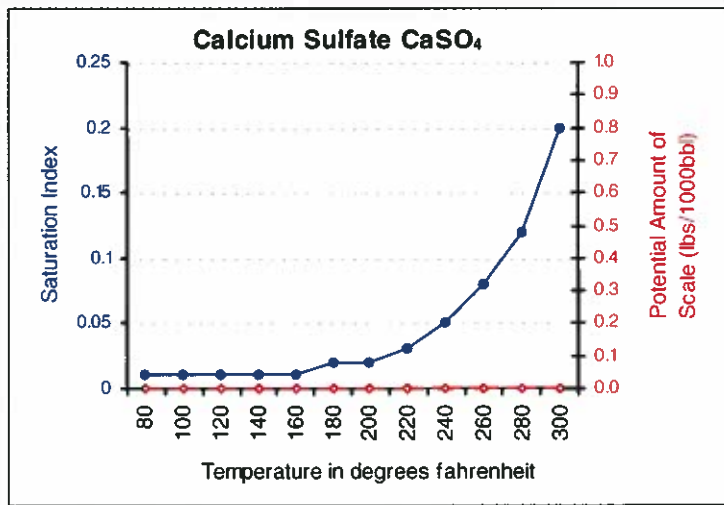
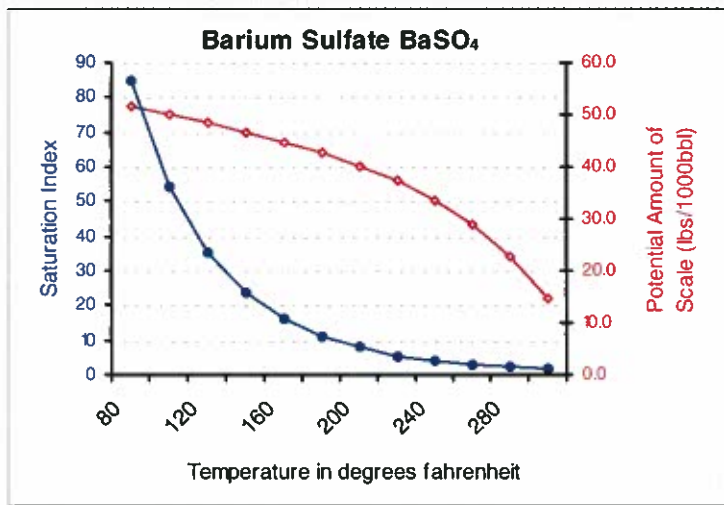
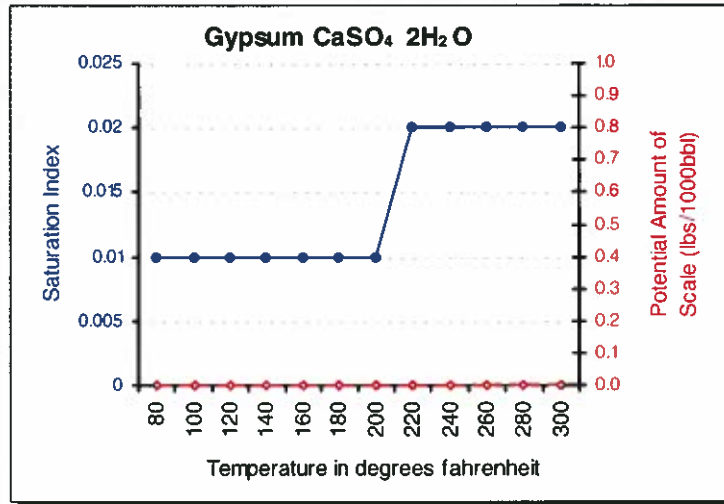
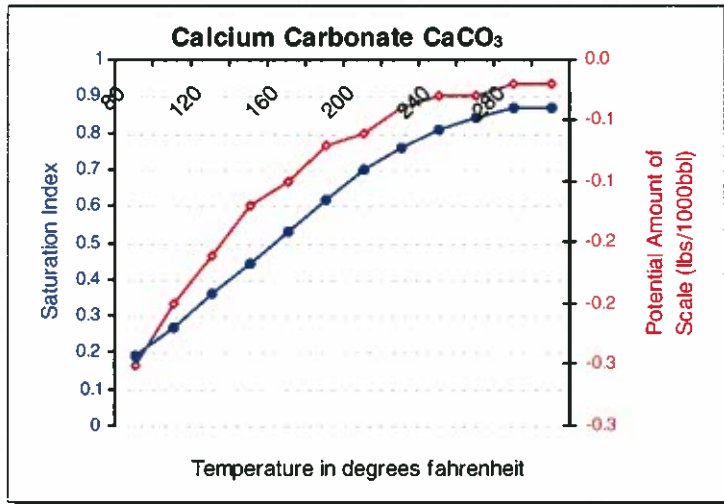
Vernal, UT 84078



Scale Prediction Graphs

Well Name: **GUNDERSON FEDERAL 12-7**

Sample ID: **WA-21271**



Multi-Chem Group, LLC

Multi-Chem Analytical Laboratory
1553 East Highway 40
Vernal, UT 84078



Water Analysis Report

Production Company: **OCCIDENTAL OIL & GAS COPR.**
Well Name: **GUNDERSON FEDERAL 12-14A**
Sample Point: **Separator**
Sample Date: **1 /27/2009**
Sales Rep: **Ron Gates**
Lab Tech: **Peter Poulsen**

Sample ID: **WA-21260**

Sample Specifics		Analysis @ Properties in Sample Specifics			
Test Date:	2/9/2009	Cations	mg/L	Anions	mg/L
Temperature (°F):	87	Calcium (Ca):	480.00	Chloride (Cl):	15000.00
Sample Pressure (psig):	0	Magnesium (Mg):	12.20	Sulfate (SO ₄):	20.00
Specific Gravity (g/cm³):	1.0128	Barium (Ba):	228.00	Dissolved CO ₂ :	102.96
pH:	6.25	Strontium (Sr):	-	Bicarbonate (HCO ₃):	372.10
Turbidity (NTU):	-	Sodium (Na):	9105.00	Carbonate (CO ₃):	-
		Potassium (K):	-	H ₂ S:	0.50
		Iron (Fe):	5.00	Phosphate (PO ₄):	-
		Manganese (Mn):	0.50	Silica (SiO ₂):	-
Calculated T.D.S. (mg/L)	25326	Lithium (Li):	-	Fluoride (F):	-
Molar Conductivity (µS/cm):	38373	Aluminum (Al):	-	Nitrate (NO ₃):	-
Resitivity (Mohm):	0.2606	Ammonia NH ₃ :	-	Lead (Pb):	-
				Zinc (Zn):	-
				Bromine (Br):	-
				Boron (B):	-

Test Conditions		Scale Values @ Test Conditions - Potential Amount of Scale in lb/1000bbl										
		Calcium Carbonate CaCO ₃		Gypsum CaSO ₄ · 2H ₂ O		Calcium Sulfate CaSO ₄		Strontium Sulfate SrSO ₄		Barium Sulfate BaSO ₄		Calculated CO ₂
		Sat Index	Scale	Sat Index	Scale	Sat Index	Scale	Sat Index	Scale	Sat Index	Scale	psi
Temp °F	Gauge Press. psi											
87	0	0.14	-0.44	0.00	-2535.80	0.00	-2909.70	-	-	62.84	36.58	3.50
80	0	0.12	-0.48	0.00	-15.23	0.00	-2962.60	-	-	73.43	36.92	1.32
100	0	0.18	-0.39	0.00	-11.79	0.00	-2771.30	-	-	47.41	35.94	1.69
120	0	0.24	-0.32	0.00	-9.29	0.00	-2481.00	-	-	31.30	34.90	1.95
140	0	0.31	-0.27	0.00	-7.47	0.00	-2135.40	-	-	21.08	33.77	2.24
160	0	0.38	-0.22	0.01	-6.15	0.01	-1772.60	-	-	14.46	32.50	2.58
180	0	0.46	-0.18	0.01	-5.18	0.01	-1421.80	-	-	10.07	31.02	2.89
200	0	0.53	-0.15	0.01	-4.47	0.01	-1102.80	-	-	7.11	29.23	2.98
220	2.51	0.60	-0.12	0.01	-4.05	0.01	-843.08	-	-	4.98	27.01	3.07
240	10.3	0.67	-0.10	0.01	-3.69	0.02	-612.23	-	-	3.59	24.12	3.17
260	20.76	0.72	-0.08	0.01	-3.44	0.03	-428.25	-	-	2.61	20.41	3.28
280	34.54	0.77	-0.07	0.01	-3.27	0.05	-287.72	-	-	1.91	15.62	3.39
300	52.34	0.80	-0.06	0.01	-3.18	0.09	-184.89	-	-	1.41	9.41	3.50

Conclusions:

Calcium Carbonate Scaling Index is negative from 80°F to 300°F
Gypsum Scaling Index is negative from 80°F to 300°F
Calcium Sulfate Scaling Index is negative from 80°F to 300°F
Strontium Sulfate scaling was not evaluated
Barium Sulfate scale is indicated at all temperatures from 80°F to 300°F

Notes:

Multi-Chem Group, LLC

Multi-Chem Analytical Laboratory

1553 East Highway 40

Vernal, UT 84078

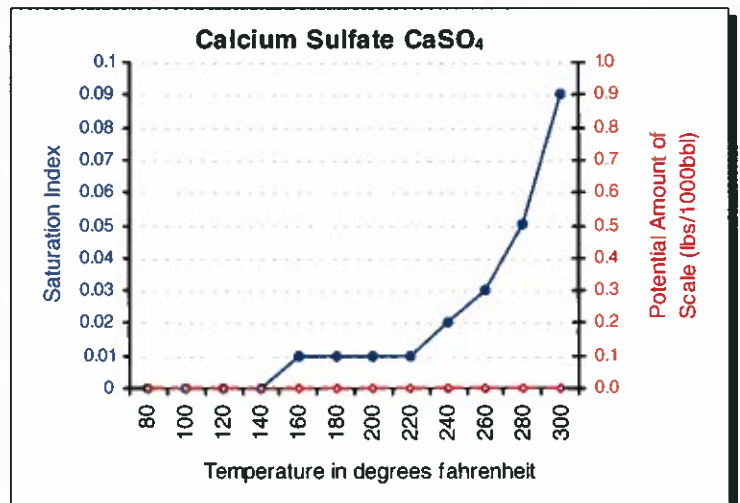
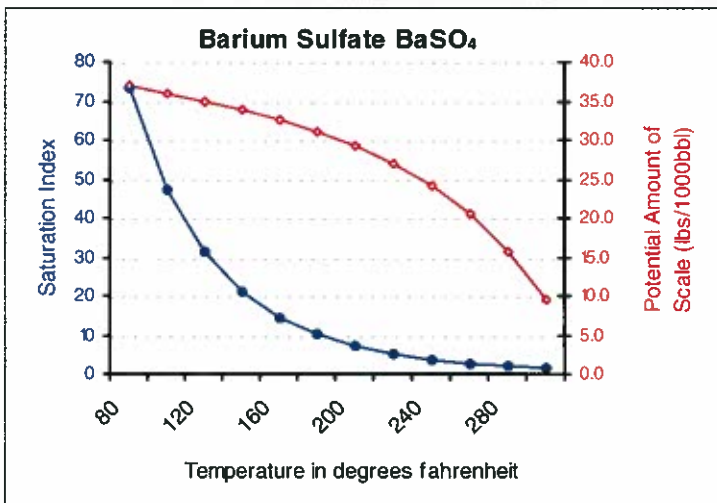
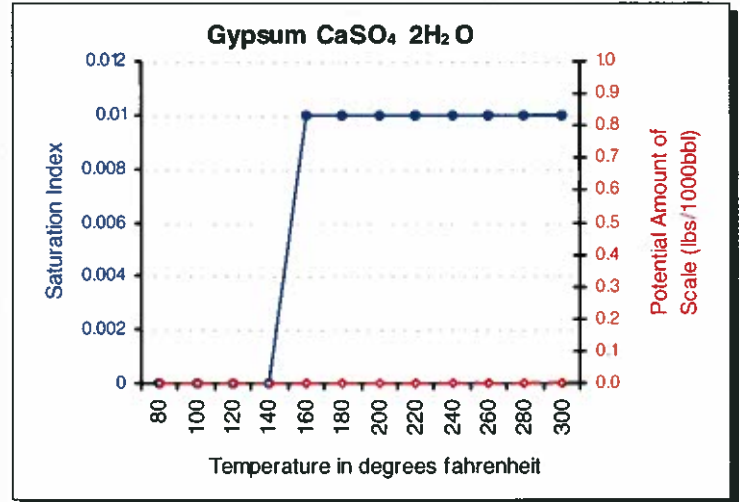
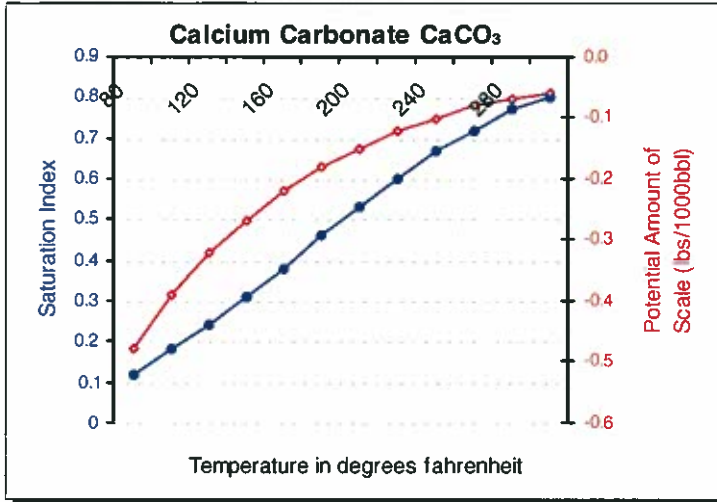


multi-chem®

Scale Prediction Graphs

Well Name: GUNDERSON FEDERAL 12-14A

Sample ID: WA-21260



Multi-Chem Group, LLC

Multi-Chem Analytical Laboratory

1553 East Highway 40

Vernal, UT 84078



Water Analysis Report

Production Company: **OCCIDENTAL OIL & GAS COPR.**

Sample ID: **WA-21262**

Well Name: **GUNDERSON FEDERAL 13-6**

Sample Point: **Separator**

Sample Date: **1 /25/2009**

Sales Rep: **Ron Gates**

Lab Tech: **Peter Poulsen**

Sample Specifics	
Test Date:	2/9/2009
Temperature (°F):	57
Sample Pressure (psig):	0
Specific Gravity (g/cm³):	1.0114
pH:	6.08
Turbidity (NTU):	-
Calculated T.D.S. (mg/L)	20630
Molar Conductivity (µS/cm):	31258
Resitivity (Mohm):	0.3199

Analysis @ Properties in Sample Specifics			
Cations	mg/L	Anions	mg/L
Calcium (Ca):	200.00	Chloride (Cl):	12000.00
Magnesium (Mg):	12.20	Sulfate (SO₄):	9.00
Barium (Ba):	53.00	Dissolved CO₂:	170.28
Strontium (Sr):	-	Bicarbonate (HCO₃):	549.00
Sodium (Na):	7631.00	Carbonate (CO₃):	-
Potassium (K):	-	H₂S:	0.50
Iron (Fe):	5.00	Phosphate (PO₄):	-
Manganese (Mn):	0.50	Silica (SiO₂):	-
Lithium (Li):	-	Fluoride (F):	-
Aluminum (Al):	-	Nitrate (NO₃):	-
Ammonia NH₃:	-	Lead (Pb):	-
		Zinc (Zn):	-
		Bromine (Br):	-
		Boron (B):	-

Test Conditions		Scale Values @ Test Conditions - Potential Amount of Scale in lb/1000bbl											
		Calcium Carbonate CaCO₃		Gypsum CaSO₄ · 2H₂O		Calcium Sulfate CaSO₄		Strontium Sulfate SrSO₄		Barium Sulfate BaSO₄		Calculated CO₂	
		Sat Index	Scale	Sat Index	Scale	Sat Index	Scale	Sat Index	Scale	Sat Index	Scale	psi	
Temp °F	Gauge Press. psi												
57	0	0.03	-1.36	0.00	-2640.50	0.00	-3174.50	-	-	16.54	17.05	6.73	
80	0	0.05	-1.11	0.00	-14.04	0.00	-3129.20	-	-	9.75	15.82	2.36	
100	0	0.07	-0.95	0.00	-10.83	0.00	-2942.00	-	-	6.32	14.42	3.06	
120	0	0.09	-0.82	0.00	-8.52	0.00	-2659.90	-	-	4.19	12.64	3.55	
140	0	0.12	-0.72	0.00	-6.86	0.00	-2324.20	-	-	2.83	10.37	4.11	
160	0	0.15	-0.64	0.00	-5.67	0.00	-1970.30	-	-	1.95	7.49	4.76	
180	0	0.19	-0.58	0.00	-4.81	0.00	-1625.60	-	-	1.36	3.90	5.37	
200	0	0.23	-0.53	0.00	-4.22	0.00	-1308.00	-	-	0.96	-0.53	5.57	
220	2.51	0.26	-0.50	0.00	-3.89	0.00	-1043.80	-	-	0.68	-6.35	5.78	
240	10.3	0.30	-0.47	0.00	-3.63	0.00	-803.24	-	-	0.49	-13.04	6.00	
260	20.76	0.34	-0.44	0.00	-3.49	0.01	-603.57	-	-	0.36	-21.03	6.23	
280	34.54	0.37	-0.43	0.00	-3.43	0.01	-442.31	-	-	0.26	-30.50	6.47	
300	52.34	0.40	-0.42	0.00	-3.43	0.02	-315.40	-	-	0.19	-41.66	6.73	

Conclusions:

Calcium Carbonate Scaling Index is negative from 80°F to 300°F

Gypsum Scaling Index is negative from 80°F to 300°F

Calcium Sulfate Scaling Index is negative from 80°F to 300°F

Strontium Sulfate scaling was not evaluated

Barium Sulfate NO CONCLUSION

Notes:

Multi-Chem Group, LLC

Multi-Chem Analytical Laboratory

1553 East Highway 40

Vernal, UT 84078

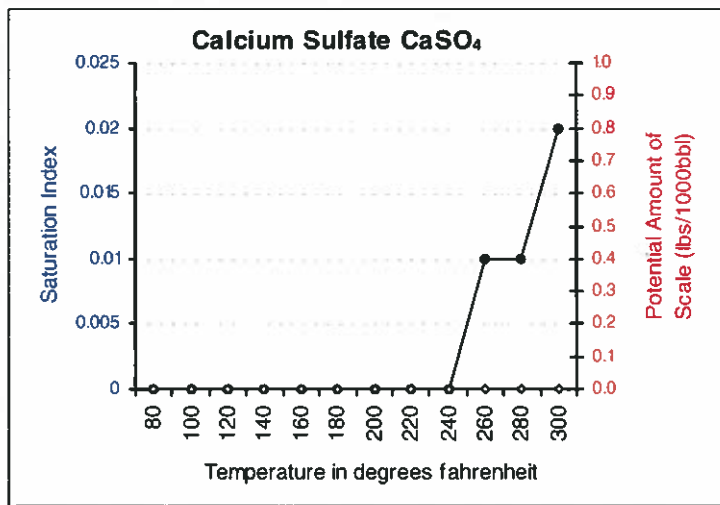
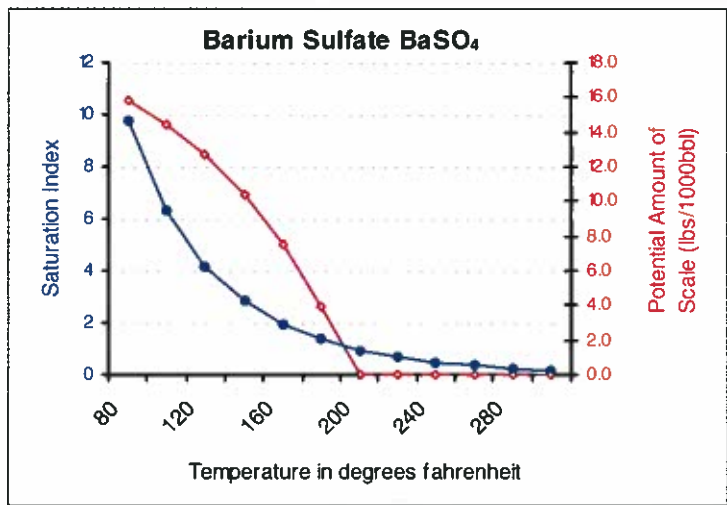
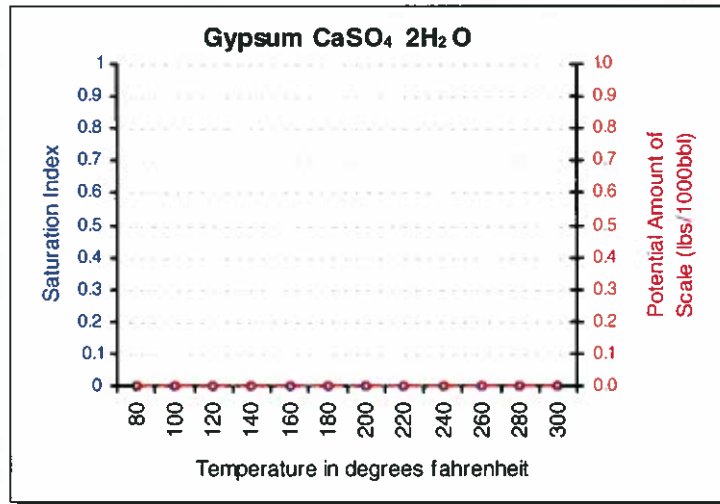
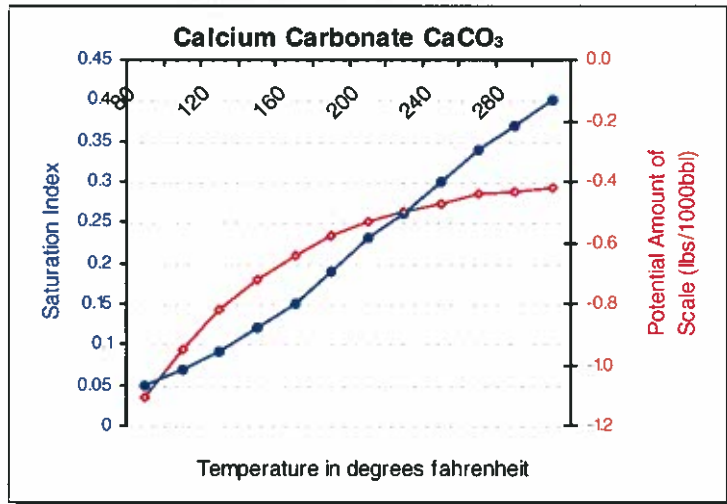


multi-chem®

Scale Prediction Graphs

Well Name: GUNDERSON FEDERAL 13-6

Sample ID: WA-21262



Multi-Chem Group, LLC

Multi-Chem Analytical Laboratory
1553 East Highway 40
Vernal, UT 84078



Water Analysis Report

Production Company: **OCCIDENTAL OIL & GAS COPR.**

Sample ID: **WA-21262**

Well Name: **GUNDERSON FEDERAL 13-6**

Sample Point: **Separator**

Sample Date: **1 /25/2009**

Sales Rep: **Ron Gates**

Lab Tech: **Peter Poulsen**

Sample Specifics		Analysis @ Properties in Sample Specifics			
Test Date:	2/9/2009	Cations	mg/L	Anions	mg/L
Temperature (°F):	57	Calcium (Ca):	200.00	Chloride (Cl):	12000.00
Sample Pressure (psig):	0	Magnesium (Mg):	12.20	Sulfate (SO ₄):	9.00
Specific Gravity (g/cm³):	1.0114	Barium (Ba):	53.00	Dissolved CO ₂ :	170.28
pH:	6.08	Strontium (Sr):	-	Bicarbonate (HCO ₃):	549.00
Turbidity (NTU):	-	Sodium (Na):	7631.00	Carbonate (CO ₃):	-
		Potassium (K):	-	H ₂ S:	0.50
		Iron (Fe):	5.00	Phosphate (PO ₄):	-
Calculated T.D.S. (mg/L)	20630	Manganese (Mn):	0.50	Silica (SiO ₂):	-
Molar Conductivity (µS/cm):	31258	Lithium (Li):	-	Fluoride (F):	-
Resitivity (Mohm):	0.3199	Aluminum (Al):	-	Nitrate (NO ₃):	-
		Ammonia NH ₃ :	-	Lead (Pb):	-
				Zinc (Zn):	-
				Bromine (Br):	-
				Boron (B):	-

Test Conditions		Scale Values @ Test Conditions - Potential Amount of Scale in lb/1000bbl											
		Calcium Carbonate CaCO ₃		Gypsum CaSO ₄ · 2H ₂ O		Calcium Sulfate CaSO ₄		Strontium Sulfate SrSO ₄		Barium Sulfate BaSO ₄		Calculated CO ₂	
		Sat Index	Scale	Sat Index	Scale	Sat Index	Scale	Sat Index	Scale	Sat Index	Scale	psi	
Temp °F	Gauge Press. psi												
57	0	0.03	-1.36	0.00	-2640.50	0.00	-3174.50	-	-	16.54	17.05	6.73	
80	0	0.05	-1.11	0.00	-14.04	0.00	-3129.20	-	-	9.75	15.82	2.36	
100	0	0.07	-0.95	0.00	-10.83	0.00	-2942.00	-	-	6.32	14.42	3.06	
120	0	0.09	-0.82	0.00	-8.52	0.00	-2659.90	-	-	4.19	12.64	3.55	
140	0	0.12	-0.72	0.00	-6.86	0.00	-2324.20	-	-	2.83	10.37	4.11	
160	0	0.15	-0.64	0.00	-5.67	0.00	-1970.30	-	-	1.95	7.49	4.76	
180	0	0.19	-0.58	0.00	-4.81	0.00	-1625.60	-	-	1.36	3.90	5.37	
200	0	0.23	-0.53	0.00	-4.22	0.00	-1308.00	-	-	0.96	-0.53	5.57	
220	2.51	0.26	-0.50	0.00	-3.89	0.00	-1043.80	-	-	0.68	-6.35	5.78	
240	10.3	0.30	-0.47	0.00	-3.63	0.00	-803.24	-	-	0.49	-13.04	6.00	
260	20.76	0.34	-0.44	0.00	-3.49	0.01	-603.57	-	-	0.36	-21.03	6.23	
280	34.54	0.37	-0.43	0.00	-3.43	0.01	-442.31	-	-	0.26	-30.50	6.47	
300	52.34	0.40	-0.42	0.00	-3.43	0.02	-315.40	-	-	0.19	-41.66	6.73	

Conclusions:

Calcium Carbonate Scaling Index is negative from 80°F to 300°F

Gypsum Scaling Index is negative from 80°F to 300°F

Calcium Sulfate Scaling Index is negative from 80°F to 300°F

Strontium Sulfate scaling was not evaluated

Barium Sulfate NO CONCLUSION

Notes:

Multi-Chem Group, LLC

Multi-Chem Analytical Laboratory

1553 East Highway 40

Vernal, UT 84078



multi-chem®

Scale Prediction Graphs

Well Name: GUNDERSON FEDERAL 13-6

Sample ID: WA-21262

