

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

OCD Hobbs

FORM APPROVED
OMB NO. 1004-0135
Expires: July 31, 2010**SUNDRY NOTICES AND REPORTS ON WELLS**
Do not use this form for proposals to drill or to re-enter an abandoned well. Use form 3160-3 (APD) for such proposals.

HOBBS OCD

SUBMIT IN TRIPLICATE - Other instructions on reverse side.

JUN 01 2015

1. Type of Well ☒ Oil Well ☐ Gas Well ☐ Other		5. Lease Serial No. NMNM14812
2. Name of Operator APACHE CORPORATION		6. If Indian, Allottee or Tribe Name
Contact: REESA FISHER E-Mail: Reesa.Fisher@apachecorp.com		7. If Unit or CA/Agreement, Name and/or No.
3a. Address 303 VETERANS AIRPARK LANE SUITE 3000 MIDLAND, TX 79705	3b. Phone No. (include area code) Ph: 432-818-1062	8. Well Name and No. WERTA FEDERAL 4 <302384>
3a. Address 303 VETERANS AIRPARK LANE SUITE 3000 MIDLAND, TX 79705		9. API Well No. 30-025-41593-00-X1
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) Sec 35 T19S R38E NESE 1650FSL 990FEL 32.365016 N Lat, 103.065013 W Lon		10. Field and Pool, or Exploratory HOUSE
		11. County or Parish, and State LEA COUNTY, NM

12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
☒ Notice of Intent	☐ Acidize	☐ Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off
☐ Subsequent Report	☐ Alter Casing	☐ Fracture Treat	☐ Reclamation	☐ Well Integrity
☐ Final Abandonment Notice	☐ Casing Repair	☐ New Construction	☐ Recomplete	☒ Other
	☐ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	Subsurface Commingling
	☐ Convert to Injection	☐ Plug Back	☐ Water Disposal	

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

Apache requests permission to DHC the Blinebry-Tubb-Drinkard, per the following:

Pool Names:

House; Blinebry 33230 Perforations: Blinebry 6108'-6478'
House; Tubb, North 33470 Tubb 6644'-6784'
House; Drinkard 33250 Drinkard 7028'-7057'

The allocation method will be as follows based on offset production (See attached application for exception to Rule 303-C).

OIL GAS Water

Approved
Operator to submit a new completion report form 3160-4 -
indicate the date all zone are DHC for proper reporting.

14. I hereby certify that:

Name (Printed/Typed) REESA FISHER	Title SR STAFF REGULATORY ANALYST
Signature (Electronic Submission)	Date 03/02/2015

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By EDWARD FERNANDEZ	Title PETROLEUM ENGINEER	Date 05/26/2015
Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.		Office Hobbs

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED **

DHC-HOB-529

SUBJECT TO LIKE
APPROVAL BY STATE

JUN 08 2015

jm

Additional data for EC transaction #293400 that would not fit on the form

32. Additional remarks, continued

Bliebry	25%	36%	27%
Tubb	9%	10%	14%
Drinkard	66%	54%	59%

Downhole commingling will not reduce the value of these pools. Ownership is the same for each of these pools.

Please see attached requested documentation.

Downhole Commingling Worksheet

Operator: Apache Corp (873)
 Lease/Well Name/API Number/Location: Werta Federal #004 30-025-41593 I-35-T19S-R38E
 Date: 12/8/2014 1650' FSL & 990' FEL

<u>Data</u>	<u>Bottom Formation</u>	<u>Middle Formation</u>	<u>Upper Formation</u>	<u>Estimated Combined Production Data</u>
Pool name	House; Drinkard	House; Tubb, North	House; Blinebry	
Pool Code	33250	33470	33230	
State Form C-102 with dedicated Acres Provided	Yes	Yes	Yes	
Formation Name	Drinkard	Tubb	Blinebry	BTD
Top and Bottom of Pay Section (Perforated or open-Hole Interval)	6950'-7100'	6650'-6850'	6100'-6550'	6100'-7100'
Method of production	Artificial Lift	Artificial Lift	Artificial Lift	Artificial Lift
Bottom Hole Pressure	3281	3154	2945	
Reservoir Drive mechanism	Expansion Drive	Expansion Drive	Expansion Drive	
Oil gravity and/or BTU @ 14.73#	35.6 / 1373	32.7 / 1238	21.9 / 1224	* 35.6 / 1338
Average Sulfur Content (Wt %)	0.35160	0.3716	0.5307	* 0.3907
Oil sample Analysis provided	Yes	Yes	Yes	Yes
Gas Analysis provided	Yes	Yes	Yes	Yes
Produce Water Analysis provided	Yes	Yes	Yes	Yes
H2S present	0.001%	No	No	0.016%
Producing, Shut-In or New Zone	New Zone	New Zone	New Zone	Commingled
Date and Oil/Gas/Water rates of Last Production (new zones or no production history Operator shall attached production estimated and supporting data)	See attached well test sheets	See attached well test sheets	See attached well test sheets	
Average decline % (provide back up data)	45%	45%	45%	
Fixed Allocation Percentage	29% / 27% / 45%	18% / 25% / 19%	53% / 48% / 36%	100% / 100% / 100%
	O G W	O G W	O G W	O G W

Remarks:

Operator Signature:

Date:

Attached Supporting documents

State Form C-102 with dedicated Acres Provided

Oil sample Analysis provided (Must be current)

Gas Analysis provided (Must be current)

Produce Water Analysis provided (Must be current)

Any additional supporting data (i.e. offset well production and decline curves etc..)

*Utilize weighted average.

WATER-BWPD
GAS-ICFBD
OIL-BOPD

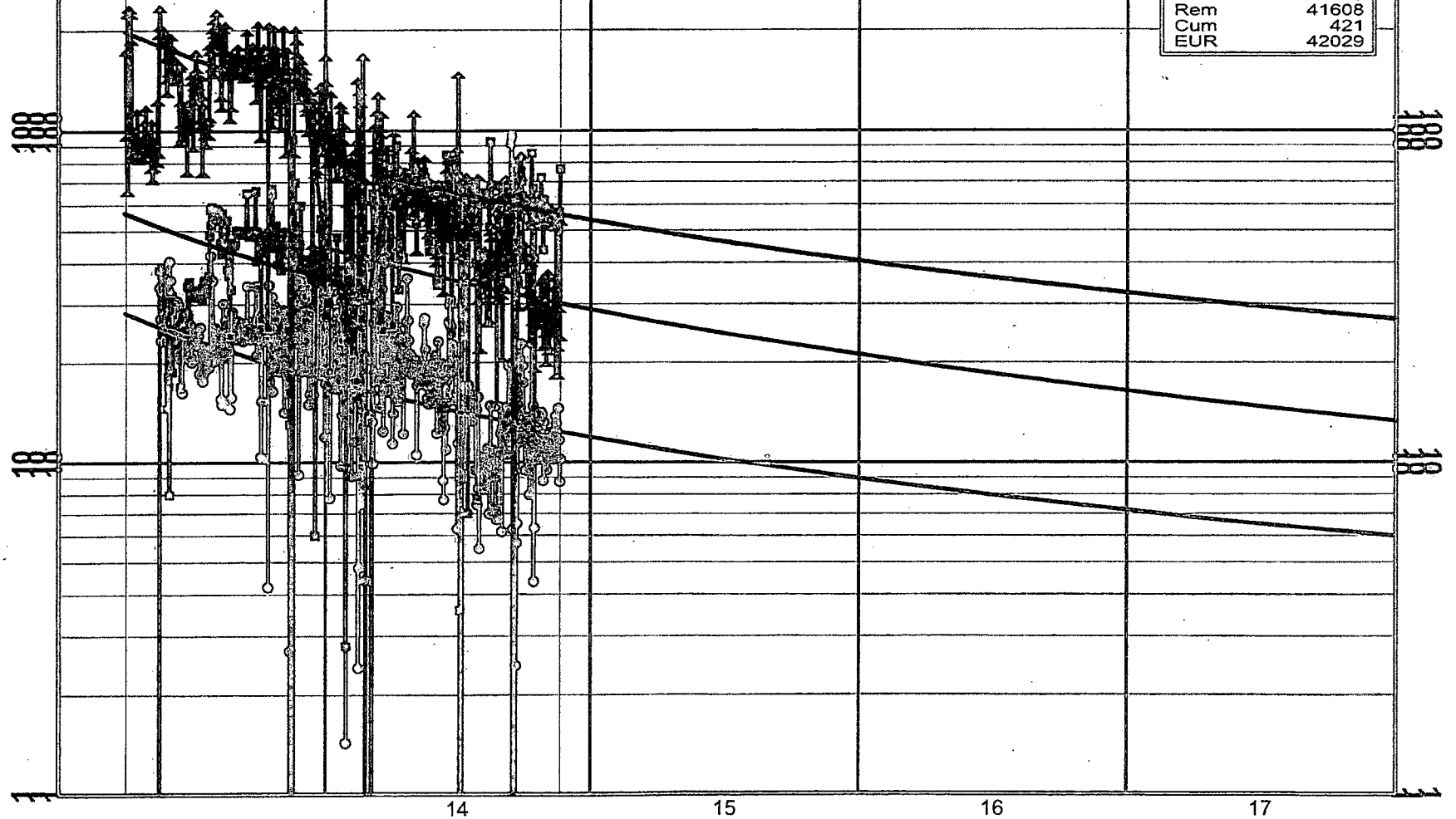
daily_Oil



WERTA FEDERAL #3 | HOUSE | | PA-12-1015-00 | 12/09/2012 | |

TEST WATER-BWPD
TEST GAS-ICFBD
TEST OIL-BOPD

Results	
Qual	REG
Ref	6/1/2013
Act	35.550
Est	24.301
Qref	25.000
Qab	0.986
"b"	1.010000
De	41.000000
Dmin	5.000 (4.88)
Yrs	30.583
Rem	41608
Cum	421
EUR	42029

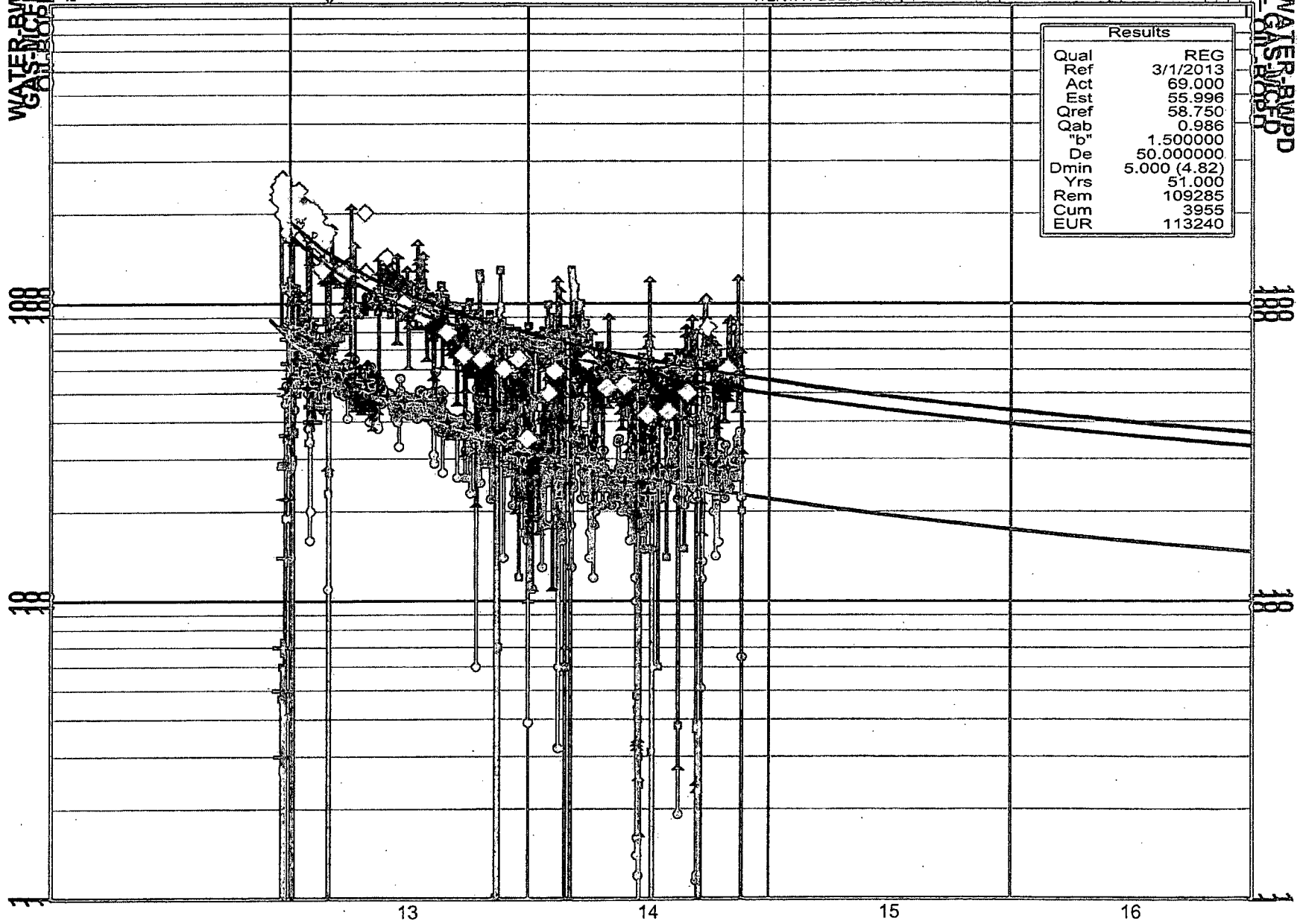


WATER-BWRPD
GAS-BWRPD
Daily_Oil

WERTA FEDERAL #2 | HOUSE | PA-12-1014-00 | 10/15/2012 |

TEST WATER-BWRPD
TEST GAS-BWRPD
TEST OIL-BWRPD

Results	
Qual	REG
Ref	3/1/2013
Act	69.000
Est	55.996
Qref	58.750
Qab	0.986
"b"	1.500000
De	50.000000
Dmin	5.000 (4.82)
Yrs	51.000
Rem	109285
Cum	3955
EUR	113240



D1W



LABORATORY SERVICES
Natural Gas Analysis

www.permianls.com
575.397.3713 2609 W Marland Hobbs NM 88240

ASTM DISTILLATION

Apache Corporation
Attention: Jim White
P. O. Box 1849
Eunice, New Mexico 88231

Sampled By: Jim White
Sample Date: 10/7/14

Sample ID: Werta Fed. #2

BTD

Percent Distilled

Temperature

IBP	125
5	178
10	223
20	289
30	371
40	464
50	540
60	595
70	646
80	674
90	699
EP	700

%Recovered = 96.0
% Residue = 3.0
% Loss = 1.0

Total Sulfur

API Gravity

Specific Gravity

RVP

0.3907 wt.%

35.6

0.8467

Distillation ASTM D 86

Sulfur ASTM D 2622

Gravily ASTM D 287

Vapor Pres ASTM D 323



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Total Sulfur in Crude

Apache Corporation
Attention: Ricky Valles
P. O. Box 1849
Eunice, New Mexico 88231

09/18/14

	Total Sulfur	API Gravity	Specific Gravity
Werta #2 Blinberry Zone	0.5307 wt. %	21.9	0.9224



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Total Sulfur in Crude

Apache Corporation
Attention: Ricky Valles
P. O. Box 1849
Eunice, New Mexico 88231

09/19/14

	Total Sulfur	API Gravity	Specific Gravity
Werta #2 Tubb Zone	0.3716 wt. %	32.7	0.8617



LABORATORY SERVICES
Natural Gas Analysis

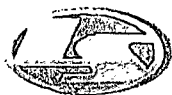
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Total Sulfur in Crude

Apache Corporation
Attention: Ricky Valles
P. O. Box 1849
Eunice, New Mexico 88231

09/22/14

	Total Sulfur	API Gravity	Specific Gravity
Werta #2 Drinkard Zone	0.3516 wt.%	35.6	0.8467



LABORATORY SERVICES
Natural Gas Analysis

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575.397.3713 2609 W Marland Hobbs NM 88240

For: Apache Corporation
Attention: Jim White
P. O. Box 1849
Eunice, New Mexico 88231

Sample: Identification: Werta Federal #2
Company: Apache
Lease:
Plant:

BTD

Sample Data: Date Sampled 10/7/2014 10:40 AM
Analysis Date 10/8/2014
Pressure-PSIA 36
Sample Temp F
Atmos Temp F 81

Sampled by: Jim White
Analysis by: Vicki McDaniel

H2S = 160 PPM

Component Analysis

		Mol Percent	GPM
Hydrogen Sulfide	H2S	0.016	
Nitrogen	N2	1.717	
Carbon Dioxide	CO2	0.196	
Methane	C1	76.119	
Ethane	C2	10.008	2.670
Propane	C3	6.110	1.679
I-Butane	IC4	0.732	0.239
N-Butane	NC4	2.135	0.671
I-Pentane	IC5	0.624	0.228
N-Pentane	NC5	0.822	0.297
Hexanes Plus	C6+	<u>1.521</u>	<u>0.659</u>
		100.000	6.442

REAL BTU/CU.FT.

At 14.65 DRY 1330.7
At 14.65 WET 1307.4
At 14.696 DRY 1334.8
At 14.696 WET 1312.1
At 14.73 DRY 1337.9
At 14.73 Wet 1314.8

Specific Gravity
Calculated 0.7808

Molecular Weight 22.6150

Z Factor (DRY) 0.9958

Z Factor (WET) 0.9954



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575.397.3713 2609 W Marland Hobbs NM 88240

For: Apache Corporation
Attention: Jim White
P. O. Box 1849
Eunice, New Mexico 88231

Sample: Drinkard Zone
Identification: Werta Fed. #2
Company: Apache
Lease:
Plant:

Sample Data: Date Sampled 9/21/2014 1:00 PM
Analysis Date 9/23/2014
Pressure-PSIA 80
Sample Temp F
Almos Temp F 79

Sampled by: Jim White
Analysis by: Vicki McDaniel

H2S = 5 PPM

Component Analysis

		Mol Percent	GPM
Hydrogen Sulfide	H2S	0.001	
Nitrogen	N2	0.628	
Carbon Dioxide	CO2	0.327	
Methane	C1	69.428	
Ethane	C2	16.596	4.427
Propane	C3	9.179	2.522
I-Butane	IC4	0.735	0.240
N-Butane	NC4	1.974	0.621
I-Pentane	IC5	0.318	0.116
N-Pentane	NC5	0.415	0.150
Hexanes Plus	C6+	<u>0.399</u>	<u>0.173</u>
		100.000	8.249

REAL BTU/CU.FT.

At 14.65 DRY 1365.8
At 14.65 WET 1342.0
At 14.696 DRY 1370.1
At 14.696 WET 1346.8
At 14.73 DRY 1373.2
At 14.73 Wet 1349.5

Specific Gravity

Calculated 0.7931

Molecular Weight 22.9716

Z Factor (DRY) 0.9956

Z Factor (WET) 0.9952



PERMIAN SERVICES
Natural Gas Analysis

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575.397.3713 2609 W Marland Hobbs NM 88240

For: Apache Corporation
Attention: Jim White
P. O. Box 1849
Eunice, New Mexico 88231

Sample: Tubb Zone
Identification: Werta Fed. #2 Well
Company: Apache
Lease:
Plant:

Sample Data: Date Sampled 9/19/2014 8:20 AM
Analysis Date 9/19/2014
Pressure-PSIA 2
Sample Temp F
Atmos Temp F 69

Sampled by: Jim White
Analysis by: Vicki McDaniel

H2S = 0

Component Analysis

		Mol Percent	GPM
Hydrogen Sulfide	H2S	0.000	
Nitrogen	N2	2.497	
Carbon Dioxide	CO2	0.027	
Methane	C1	79.593	
Ethane	C2	9.309	2.483
Propane	C3	4.876	1.340
I-Butane	IC4	0.562	0.183
N-Butane	NC4	1.561	0.491
I-Pentane	IC5	0.430	0.157
N-Pentane	NC5	0.476	0.172
Hexanes Plus	C6+	0.669	0.290
		100.000	5.116

REAL BTU/CU.FT.		Specific Gravity	
At 14.65 DRY	1231.6	Calculated	0.7230
At 14.65 WET	1210.1		
At 14.696 DRY	1235.4		
At 14.696 WET	1214.3	Molecular Weight	20.9403
At 14.73 DRY	1238.2		
At 14.73 Wet	1216.9		
		Z Factor (DRY)	0.9965
		Z Factor (WET)	0.9961



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Natural Gas Analysis

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575.397.3713 2609 W Marland Hobbs NM 88240

For: Apache Corporation
Attention: Jim White
P. O. Box 1849
Eunice, New Mexico 88231

Sample: Blinbry Zone
Identification: Werth Federal #2
Company: Apache
Lease:
Plant:

Sample Data: Date Sampled 9/18/2014
Analysis Date 9/18/2014
Pressure-PSIA 205
Sample Temp F
Atmos Temp F 68

Sampled by: Jim White
Analysis by: Vicki McDaniel

H2S = 0

Component Analysis

		Mol Percent	GPM
Hydrogen Sulfide	H2S	0.000	
Nitrogen	N2	2.130	
Carbon Dioxide	CO2	0.012	
Methane	C1	80.382	
Ethane	C2	9.510	2.537
Propane	C3	4.788	1.316
I-Butane	IC4	0.525	0.171
N-Butane	NC4	1.458	0.458
I-Pentane	IC5	0.376	0.137
N-Pentane	NC5	0.427	0.154
Hexanes Plus	C6+	0.392	0.170
		100.000	4.944

REAL BTU/CU.FT.
At 14.65 DRY 1217.8
At 14.65 WET 1196.6
At 14.696 DRY 1221.6
At 14.696 WET 1200.8
At 14.73 DRY 1224.4
At 14.73 Wet 1203.3

Specific Gravity
Calculated 0.7101

Molecular Weight 20.5653

Z Factor (DRY) 0.9967

Z Factor (WET) 0.9963

WATER



Martin Water Laboratories, Inc.

Analysts & Consultants since 1953
Bacterial & Chemical Analysis

TO: Dustin Armstrong
ADDRESS: 2609 W. Marland, Hobbs, NM 88240
COMPANY: Laboratory Services
LEASE: (Apache) Werta Fed #2 **BTD**
FORMATION:
LABORATORY NO. 1014-461
SAMPLE RECEIVED: 10/13/14
RESULTS REPORTED: 10/22/14
COUNTY, STATE:
FIELD OR POOL:

DESCRIPTION OF SAMPLES				
No. 1	Submitted water sample - taken 10/9/14 from Werta Fed # 2.			
No. 2				
No. 3				
No. 4				
Chemical and Physical Properties (milligrams per liter)	No. 1	No. 2	No. 3	No. 4
Specific Gravity @ 60°F.	1.0842			
pH When Received	7.10			
Bicarbonate as HCO ₃	259			
Total Hardness, as CaCO ₃	21,200			
Calcium, as Ca	6,480			
Magnesium, as Mg	1,215			
Sodium and/or Potassium	41,893			
Sulfate, as SO ₄	1,863			
Chloride, as Cl	78,100			
Iron, as Fe	18			
Barium, as Ba	0			
Total Dissolved Solids, Calculated	129,809			
Hydrogen Sulfide	0.00			
Resistivity, ohms/m @ 77°F.	0.078			

REMARKS: The undersigned certifies the above to be true and correct to the best of his knowledge and belief.

By: Greg Ogden, B.S.

(432) 683-4521 * 709 W. Indiana, Midland, Texas 79701 * (fax) 682-8819
Remit to Address: P.O. Box 98, Midland, Texas 79702
Email: martinwaterlabs@ntis-online.net



Permian Basin Area Laboratory
2101 S Market St. / Building B
Midland, TX. 79711

Report Date: 10/1/2014

Complete Water Analysis Report SSP v.8

Customer:	APACHE CORPORATION	Sample Point Name	WERTA FEDERAL 2
District:	New Mexico	Sample ID:	201401019638
Sales Rep:	Frank L Gardner	Sample Date:	9/18/2014
Lease:	HOUSE	Log Out Date:	10/1/2014
Site Type:	Well Sites	Analyst:	Melina A Sanchez
Sample Point Description:	SWABBED FLUID/WORKOVER		

APACHE CORPORATION, HOUSE, WERTA FEDERAL 2

Field Data			Analysis of Sample											
			Anions:		mg/L		meq/L		Cations:		mg/L		meq/L	
Initial Temperature (°F):	250		Chloride (Cl⁻):	56025.0	1580.4	Sodium (Na⁺):	28608.8	1244.9						
Final Temperature (°F):	80		Sulfate (SO₄²⁻):	2003.0	41.7	Potassium (K⁺):	501.6	12.8						
Initial Pressure (psi):	100		Borate (H₃BO₃):	80.9	1.3	Magnesium (Mg²⁺):	1054.6	86.8						
Final Pressure (psi):	15		Fluoride (F⁻):	ND		Calcium (Ca²⁺):	3323.6	165.8						
			Bromide (Br⁻):	ND		Strontium (Sr²⁺):	68.5	1.6						
pH:			Nitrite (NO₂⁻):	ND		Barium (Ba²⁺):	0.8	0.0						
pH at time of sampling:	5.4		Nitrate (NO₃⁻):	ND		Iron (Fe²⁺):	574.7	20.6						
			Phosphate (PO₄³⁻):	ND		Manganese (Mn²⁺):	21.6	0.8						
			Silica (SiO₂):	ND		Lead (Pb²⁺):	ND							
						Zinc (Zn²⁺):	0.7	0.0						
Alkalinity by Titration:			mg/L		meq/L									
Bicarbonate (HCO₃⁻):	98.0	1.6					Aluminum (Al³⁺):	ND						
Carbonate (CO₃²⁻):	ND						Chromium (Cr³⁺):	ND						
Hydroxide (OH⁻):	ND						Cobalt (Co²⁺):	ND						
			Organic Acids:		mg/L meq/L		Copper (Cu²⁺):	ND						
aqueous CO₂ (ppm):	190.0		Formic Acid:	ND			Molybdenum (Mo²⁺):	ND						
aqueous H₂S (ppm):	18.0		Acetic Acid:	ND			Nickel (Ni²⁺):	ND						
aqueous O₂ (ppb):	ND		Propionic Acid:	ND			Tin (Sn²⁺):	ND						
			Butyric Acid:	ND			Titanium (Ti²⁺):	ND						
Calculated TDS (mg/L):	92362		Valeric Acid:	ND			Vanadium (V³⁺):	ND						
Density/Specific Gravity (g/cm³):	1.0594						Zirconium (Zr²⁺):	ND						
Measured Density/Specific Gravity	1.0640						Total Hardness:	12732	N/A					
Conductivity (mmhos):	ND													
MCF/D:	No Data													
BOPD:	No Data													
BWPD:	No Data		Anion/Cation Ratio:		1.06		ND = Not Determined							

Conditions		Barite (BaSO₄)		Calcite (CaCO₃)		Gypsum (CaSO₄·2H₂O)		Anhydrite (CaSO₄)	
Temp	Press.	Index	Amt (ptb)	Index	Amt (ptb)	Index	Amt (ptb)	Index	Amt (ptb)
80°F	15 psi	0.85	0.408	-0.95	0.000	-0.13	0.000	-0.33	0.000
99°F	24 psi	0.71	0.383	-0.89	0.000	-0.12	0.000	-0.25	0.000
118°F	34 psi	0.59	0.353	-0.81	0.000	-0.11	0.000	-0.15	0.000
137°F	43 psi	0.48	0.319	-0.72	0.000	-0.10	0.000	-0.05	0.000
156°F	53 psi	0.39	0.283	-0.62	0.000	-0.09	0.000	0.05	95.020
174°F	62 psi	0.32	0.247	-0.52	0.000	-0.07	0.000	0.17	266.323
193°F	72 psi	0.25	0.211	-0.42	0.000	-0.06	0.000	0.28	413.270
212°F	81 psi	0.20	0.176	-0.31	0.000	-0.04	0.000	0.40	536.077
231°F	91 psi	0.16	0.143	-0.20	0.000	-0.02	0.000	0.52	636.248
250°F	100 psi	0.12	0.113	-0.09	0.000	-0.01	0.000	0.64	716.191

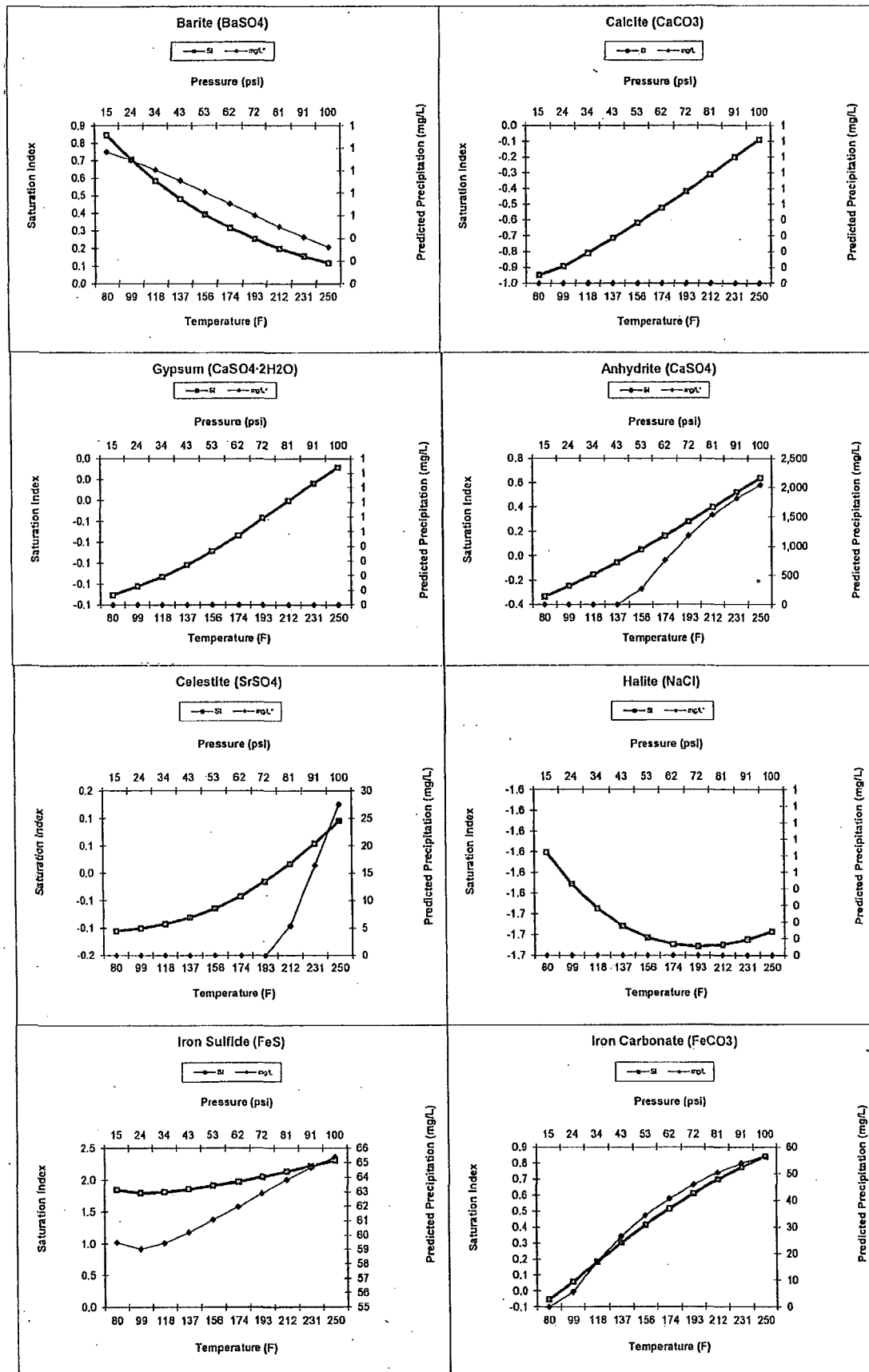
Conditions		Celestite (SrSO₄)		Halite (NaCl)		Iron Sulfide (FeS)		Iron Carbonate (FeCO₃)	
Temp	Press.	Index	Amt (ptb)	Index	Amt (ptb)	Index	Amt (ptb)	Index	Amt (ptb)
80°F	15 psi	-0.11	0.000	-1.62	0.000	1.85	20.821	-0.05	0.000
99°F	24 psi	-0.10	0.000	-1.64	0.000	1.80	20.664	0.06	1.962
118°F	34 psi	-0.09	0.000	-1.65	0.000	1.81	20.807	0.18	5.923
137°F	43 psi	-0.08	0.000	-1.66	0.000	1.86	21.069	0.30	9.300
156°F	53 psi	-0.06	0.000	-1.66	0.000	1.91	21.374	0.42	12.042
174°F	62 psi	-0.04	0.000	-1.66	0.000	1.98	21.685	0.52	14.235
193°F	72 psi	-0.02	0.000	-1.67	0.000	2.05	22.010	0.61	16.074
212°F	81 psi	0.02	1.891	-1.66	0.000	2.14	22.338	0.70	17.633
231°F	91 psi	0.05	5.733	-1.66	0.000	2.22	22.629	0.78	18.871
250°F	100 psi	0.10	9.636	-1.66	0.000	2.31	22.884	0.84	19.860

Note 1: When assessing the severity of the scale problem, both the saturation index (SI) and amount of scale must be considered.
Note 2: Precipitation of each scale is considered separately. Total scale will be less than the sum of the amounts of the eight (8) scales.
Note 3: Saturation index predictions on this sheet use pH and alkalinity. %CO₂ is not included in the calculations.



ScaleSoft
ScaleSoft Pitzer™
SSP2010

Comments: BLINERY





Permian Basin Area Laboratory
2101 S Market St. / Building B
Midland, TX. 79711

Report Date: 10/1/2014

Complete Water Analysis Report ssp v.8

Customer:	APACHE CORPORATION	Sample Point Name:	WERTA FEDERAL 2
District:	New Mexico	Sample ID:	201401019639
Sales Rep:	Frank L. Gardner	Sample Date:	9/19/2014
Lease:	HOUSE	Log Out Date:	10/1/2014
Site Type:	Well Sites	Analyst:	Melina A Sanchez
Sample Point Description:	SWABBED FLUID/WORKOVER		

APACHE CORPORATION, HOUSE, WERTA FEDERAL 2

Field Data		Analysis of Sample				
		Anions:		Cations:		
		mg/L	meq/L	mg/L	meq/L	
Initial Temperature (°F):	250	Chloride (Cl⁻):	58320.0	1645.1	Sodium (Na⁺):	28593.5 1244.3
Final Temperature (°F):	80	Sulfate (SO₄²⁻):	1846.0	38.4	Potassium (K⁺):	508.0 13.0
Initial Pressure (psi):	100	Borate (H₃BO₃):	116.8	1.9	Magnesium (Mg²⁺):	1320.0 108.6
Final Pressure (psi):	15	Fluoride (F⁻):	ND		Calcium (Ca²⁺):	4112.1 205.2
		Bromide (Br⁻):	ND		Strontium (Sr²⁺):	84.2 1.9
pH:		Nitrite (NO₂⁻):	ND		Barium (Ba²⁺):	0.3 0.0
pH at time of sampling:	6.5	Nitrate (NO₃⁻):	ND		Iron (Fe²⁺):	676.8 24.2
		Phosphate (PO₄³⁻):	ND		Manganese (Mn²⁺):	9.1 0.3
		Silica (SiO₂):	ND		Lead (Pb²⁺):	ND
					Zinc (Zn²⁺):	1.8 0.1
Alkalinity by Titration:						
		mg/L	meq/L			
Bicarbonate (HCO₃⁻):	232.0		3.8	Aluminum (Al³⁺):		ND
Carbonate (CO₃²⁻):	ND			Chromium (Cr³⁺):		ND
Hydroxide (OH⁻):	ND			Cobalt (Co²⁺):		ND
				Copper (Cu²⁺):		ND
aqueous CO₂ (ppm):	50.0	Formic Acid:	ND	Molybdenum (Mo³⁺):		ND
aqueous H₂S (ppm):	18.0	Acetic Acid:	ND	Nickel (Ni²⁺):		ND
aqueous O₂ (ppb):	ND	Propionic Acid:	ND	Tin (Sn²⁺):		ND
		Butyric Acid:	ND	Titanium (Ti²⁺):		ND
Calculated TDS (mg/L):	95821	Valeric Acid:	ND	Vanadium (V³⁺):		ND
Density/Specific Gravity (g/cm³):	1.0620			Zirconium (Zr²⁺):		ND
Measured Density/Specific Gravity	1.0660					
Conductivity (mmhos):	ND			Total Hardness:	15815	N/A
MCF/D:	No Data	Anion/Cation Ratio:		1.06	ND = Not Determined	
BOPD:	No Data					
BWPD:	No Data					

Conditions		Barite (BaSO₄)		Calcite (CaCO₃)		Gypsum (CaSO₄·2H₂O)		Anhydrite (CaSO₄)	
Temp	Press.	Index	Amt (ptb)	Index	Amt (ptb)	Index	Amt (ptb)	Index	Amt (ptb)
80°F	15 psi	0.34	0.095	0.61	30.763	-0.10	0.000	-0.30	0.000
99°F	24 psi	0.21	0.066	0.66	32.462	-0.09	0.000	-0.21	0.000
118°F	34 psi	0.09	0.031	0.73	34.935	-0.08	0.000	-0.12	0.000
137°F	43 psi	-0.02	0.000	0.81	37.479	-0.07	0.000	-0.02	0.000
156°F	53 psi	-0.11	0.000	0.90	39.907	-0.05	0.000	0.09	149.935
174°F	62 psi	-0.18	0.000	0.99	42.174	-0.04	0.000	0.20	304.496
193°F	72 psi	-0.24	0.000	1.08	44.278	-0.02	0.000	0.32	434.497
212°F	81 psi	-0.30	0.000	1.17	46.392	0.00	0.000	0.44	540.998
231°F	91 psi	-0.34	0.000	1.28	48.371	0.01	30.391	0.56	626.208
250°F	100 psi	-0.38	0.000	1.38	50.192	0.03	64.002	0.68	693.007

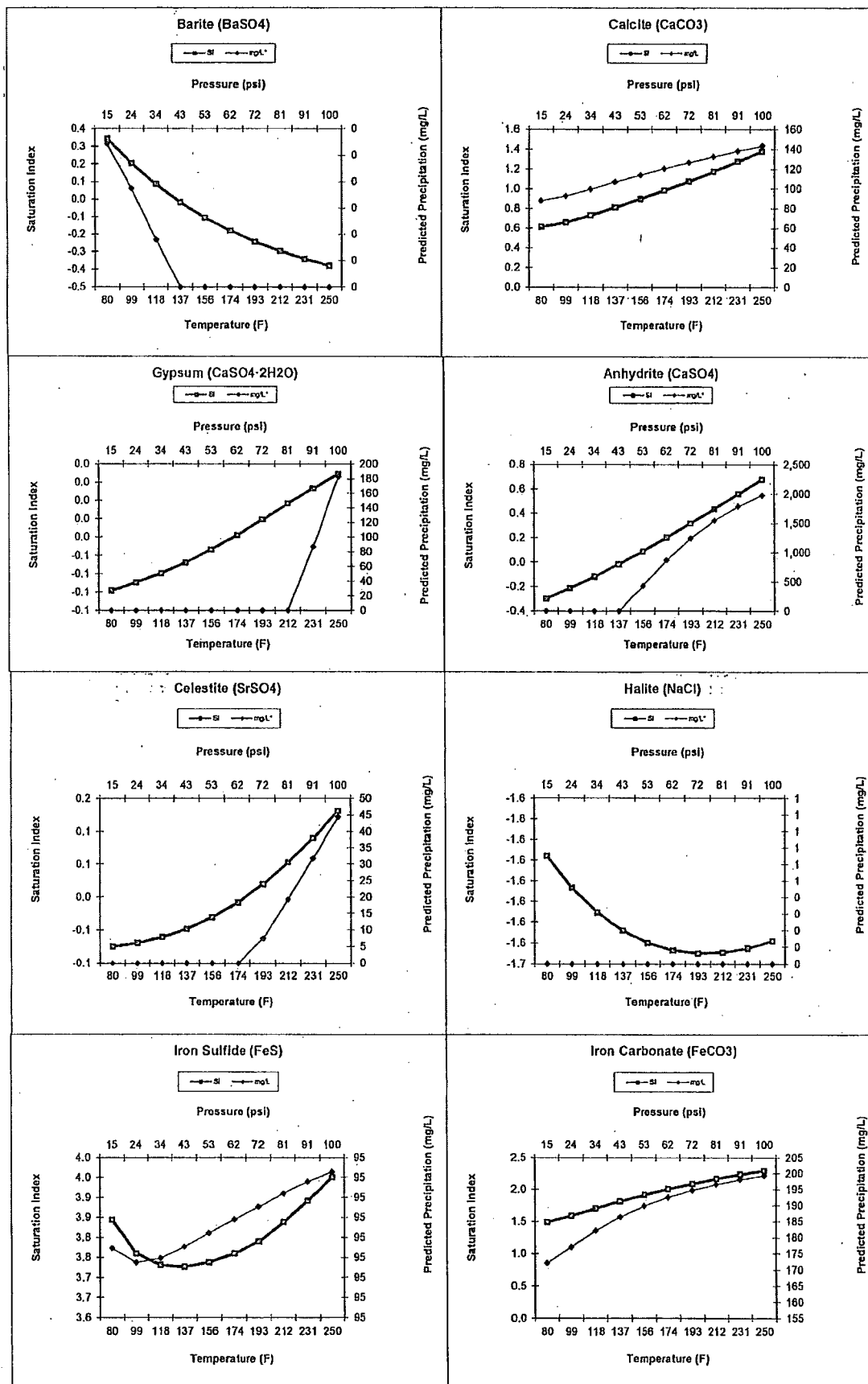
Conditions		Celestite (SrSO₄)		Halite (NaCl)		Iron Sulfide (FeS)		Iron Carbonate (FeCO₃)	
Temp	Press.	Index	Amt (ptb)	Index	Amt (ptb)	Index	Amt (ptb)	Index	Amt (ptb)
80°F	15 psi	-0.08	0.000	-1.60	0.000	3.84	33.281	1.49	60.228
99°F	24 psi	-0.07	0.000	-1.61	0.000	3.76	33.276	1.59	61.986
118°F	34 psi	-0.06	0.000	-1.63	0.000	3.73	33.278	1.71	63.756
137°F	43 psi	-0.05	0.000	-1.63	0.000	3.73	33.282	1.82	65.246
156°F	53 psi	-0.03	0.000	-1.64	0.000	3.74	33.287	1.92	66.445
174°F	62 psi	-0.01	0.000	-1.64	0.000	3.76	33.291	2.01	67.396
193°F	72 psi	0.02	2.587	-1.64	0.000	3.79	33.296	2.09	68.147
212°F	81 psi	0.05	6.739	-1.64	0.000	3.84	33.300	2.17	68.803
231°F	91 psi	0.09	11.117	-1.64	0.000	3.89	33.305	2.24	69.339
250°F	100 psi	0.13	15.541	-1.64	0.000	3.95	33.308	2.30	69.765

Note 1: When assessing the severity of the scale problem, both the saturation index (SI) and amount of scale must be considered.
Note 2: Precipitation of each scale is considered separately. Total scale will be less than the sum of the amounts of the eight (8) scales.
Note 3: Saturation Index predictions on this sheet use pH and alkalinity; %CO₂ is not included in the calculations.



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Comments: TUBB





Permian Basin Area Laboratory
2101 S Market St. / Building B
Midland, TX. 79711

Report Date: 10/1/2014

Complete Water Analysis Report SSP v.8

Customer:	APACHE CORPORATION	Sample Point Name	WERTA FEDERAL 2
District:	New Mexico	Sample ID:	201401019640
Sales Rep:	Frank L. Gardner	Sample Date:	9/23/2014
Lease:	HOUSE	Log Out Date:	10/1/2014
Site Type:	Well Sites	Analyst:	Melina A Sanchez
Sample Point Description:	SWABBED FLUID/WORKOVER		

APACHE CORPORATION, HOUSE, WERTA FEDERAL 2

Field Data		Analysis of Sample											
		Anions:		mg/L		meq/L		Cations:		mg/L		meq/L	
Initial Temperature (°F):	250	Chloride (Cl⁻):	33050.0	932.3	Sodium (Na⁺):	18212.6	792.5						
Final Temperature (°F):	80	Sulfate (SO₄²⁻):	1234.0	25.7	Potassium (K⁺):	319.5	8.2						
Initial Pressure (psi):	100	Borate (H₃BO₃):	62.3	1.0	Magnesium (Mg²⁺):	755.2	62.2						
Final Pressure (psi):	15	Fluoride (F⁻):	ND		Calcium (Ca²⁺):	2339.5	116.7						
		Bromide (Br⁻):	ND		Strontium (Sr²⁺):	47.0	1.1						
		Nitrite (NO₂⁻):	ND		Barium (Ba²⁺):	0.0	0.0						
		Nitrate (NO₃⁻):	ND		Iron (Fe²⁺):	34.9	1.2						
		Phosphate (PO₄³⁻):	ND		Manganese (Mn²⁺):	6.7	0.2						
		Silica (SiO₂):	ND		Lead (Pb²⁺):	ND							
					Zinc (Zn²⁺):	0.0	0.0						

Conditions		Barite (BaSO₄)		Calcite (CaCO₃)		Gypsum (CaSO₄·2H₂O)		Anhydrite (CaSO₄)	
Temp	Press.	Index	Amt (ptb)	Index	Amt (ptb)	Index	Amt (ptb)	Index	Amt (ptb)
80°F	15 psi		0.000	0.24	14.048	-0.34	0.000	-0.56	0.000
99°F	24 psi		0.000	0.28	15.918	-0.34	0.000	-0.48	0.000
118°F	34 psi		0.000	0.34	18.983	-0.33	0.000	-0.39	0.000
137°F	43 psi		0.000	0.42	22.312	-0.31	0.000	-0.28	0.000
156°F	53 psi		0.000	0.50	25.629	-0.29	0.000	-0.17	0.000
174°F	62 psi		0.000	0.58	28.843	-0.27	0.000	-0.05	0.000
193°F	72 psi		0.000	0.67	31.923	-0.25	0.000	0.07	76.334
212°F	81 psi		0.000	0.78	35.083	-0.22	0.000	0.20	193.963
231°F	91 psi		0.000	0.88	38.084	-0.20	0.000	0.33	289.798
250°F	100 psi		0.000	1.00	40.899	-0.17	0.000	0.46	365.969

Conditions		Celestite (SrSO₄)		Halite (NaCl)		Iron Sulfide (FeS)		Iron Carbonate (FeCO₃)	
Temp	Press.	Index	Amt (ptb)	Index	Amt (ptb)	Index	Amt (ptb)	Index	Amt (ptb)
80°F	15 psi	-0.34	0.000	-2.06	0.000	2.80	19.076	0.10	3.179
99°F	24 psi	-0.34	0.000	-2.08	0.000	2.71	19.055	0.19	5.830
118°F	34 psi	-0.33	0.000	-2.10	0.000	2.68	19.052	0.30	8.606
137°F	43 psi	-0.31	0.000	-2.10	0.000	2.67	19.058	0.41	11.041
156°F	53 psi	-0.29	0.000	-2.11	0.000	2.69	19.069	0.51	13.079
174°F	62 psi	-0.26	0.000	-2.11	0.000	2.72	19.081	0.60	14.756
193°F	72 psi	-0.22	0.000	-2.11	0.000	2.76	19.095	0.69	16.129
212°F	81 psi	-0.17	0.000	-2.11	0.000	2.81	19.111	0.77	17.358
231°F	91 psi	-0.12	0.000	-2.10	0.000	2.88	19.126	0.85	18.374
250°F	100 psi	-0.07	0.000	-2.09	0.000	2.96	19.140	0.93	19.206

Note 1: When assessing the severity of the scale problem, both the saturation index (SI) and amount of scale must be considered

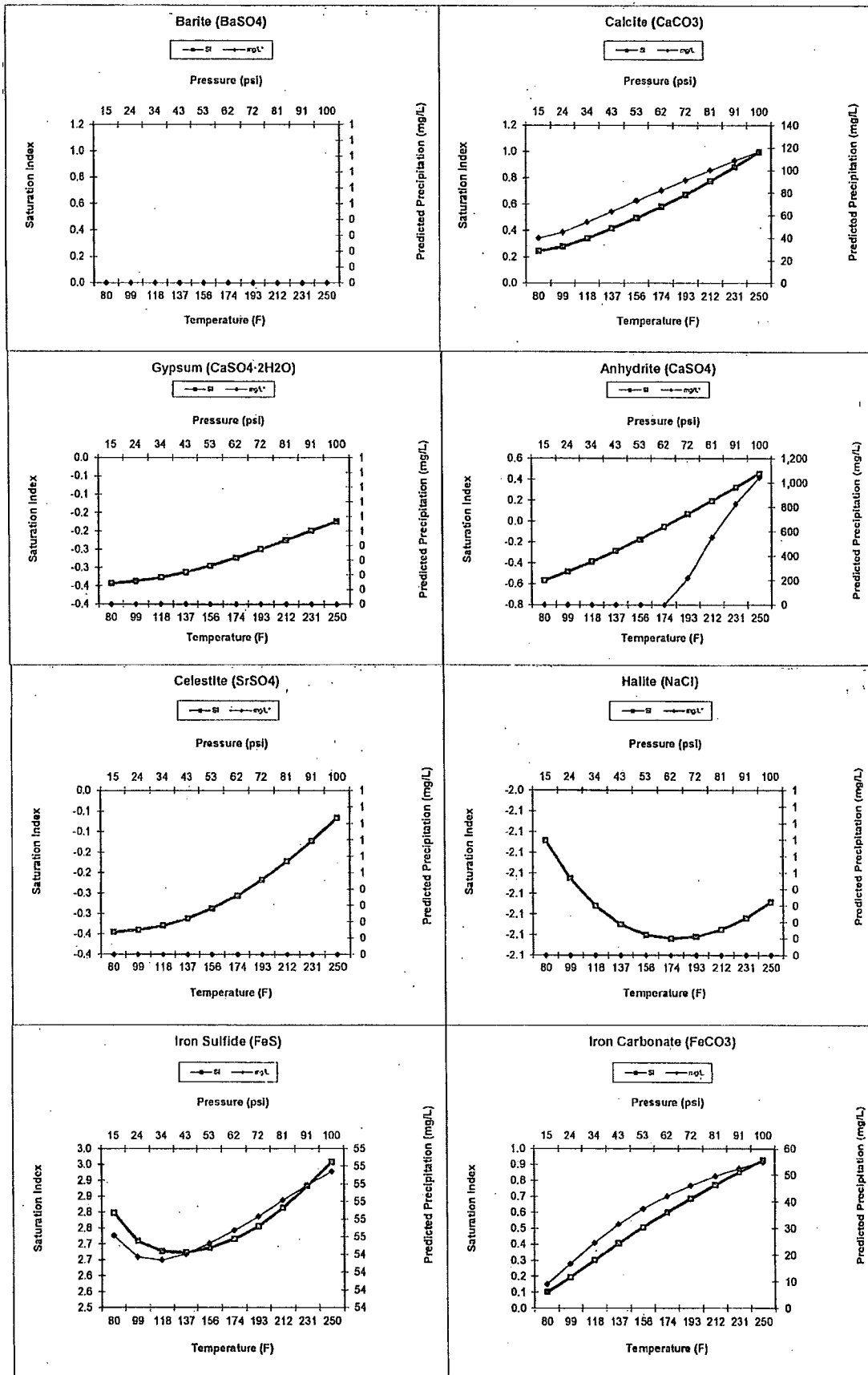
Note 2: Precipitation of each scale is considered separately. Total scale will be less than the sum of the amounts of the eight (8) scales.

Note 3: Saturation Index predictions on this sheet use pH and alkalinity. %CO₂ is not included in the calculations.



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Comments: DRINKARD



HOBBS OCD

SEP 02 2014

COLOR COPY

Form 3160-5
(August 2007)

RECEIVED
UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB No. 1004-0137
Expires: July 31, 2010

SUNDRY NOTICES AND REPORTS ON WELLS
Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.

5. Lease Serial No.
NMNM-14812

6. If Indian, Allottee or Tribe Name

SUBMIT IN TRIPLICATE - Other instructions on page 2.

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator
Apache Corporation

3a. Address
303 Veterans Airpark Lane, Suite 3000
Midland, TX 79705

3b. Phone No. (include area code)
432/818-1062

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
1650' FSL & 990' FEL, UL 1, Sec 35, T19S, R30E

7. If Unit of CA/Agreement, Name and/or No.

8. Well Name and No.
Werta Federal #004 (OCD 302384)

9. API Well No.
30-025-41593

10. Field and Pool or Exploratory Area
House; Blinebry/House; Tubb, North/House; Drinkard

11. Country or Parish, State
Lea County, NM

12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
☒ Notice of Intent	☐ Acidize	☐ Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off
☐ Subsequent Report	☐ Alter Casing	☐ Fracture Treat	☐ Reclamation	☐ Well Integrity
☐ Final Abandonment Notice	☐ Casing Repair	☐ New Construction	☐ Recomplete	☒ Other DHC
	☐ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	
	☐ Convert to Injection	☐ Plug Back	☐ Water Disposal	

13. Describe Proposed or Completed Operation: Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/DIA. Required subsequent reports must be filed within 30 days following completion of the involved operations. If the operation results in a multiple-completion or recompletion in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has determined that the site is ready for final inspection.)

Apache requests permission to DHC the Blinebry-Tubb-Drinkard, per the following:

Pool Names: House; Blinebry	33230	Est Perforations: Blinebry	6100'-6550'
House; Tubb, North	33470	Tubb	6650'-6850'
House; Drinkard	33250	Drinkard	6950'-7100'

The allocation method will be as follows based on offset production (See attached application for exception to Rule 303-C).

	OIL	GAS	Water
Blinebry	53%	48%	36%
Tubb	18%	25%	19%
Drinkard	29%	27%	45%

Downhole commingling will not reduce the value of these pools. Ownership is the same for each of these pools.

14. I hereby certify that the foregoing is true and correct. Name (Printed/Typed)

Reesa Holland Fisher

Title Sr. Staff Reg Analyst

Signature

Reesa Fisher

Date 01/15/2014

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

Title

Date

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Instructions on page 2)

OCD Conditions of Approval ==
Accepted for **RECORD ONLY**. All Federal
forms requires BLM Approval.

DSm1424716689

Order Number		API Number	Operator		County			
DHC HOB-529		30-025-41593	APACHE CORP		LEA			
Order Date		Well Name		Number	Location			
09/04/2014		WERTA FEDERAL		004	I UL	35 Sec	19S T (+Dir)	38E R (400)
				Oil %	Gas %		Wtr %	
Pool 1	33230	HOUSE; BLINEBRY		53%	48%		36%	
Pool 2	33470	HOUSE; TUBB, NORTH		18%	25%		19%	
Pool 3	33250	HOUSE; DRINKARD		29%	27%		45%	
Pool 4								
Comments: Entered info to RBDMS 9/04/2014								

POSTED BY & WHEN dn 9/04/2014

ORDER NUMBER DHC API NUMBER 30-025-41593 OPERATOR APACHE CORP COUNTY/LEASE LEA
40B-529

ORDER DATE 9/04/2014 WELL NAME WERTA FEDERAL WELL # 004 UL 1 SEC 35 T(+Dir) 19S R(+Dir) 38E

OIL % GAS% WTR%

POOL 1 33230 HOUSE: BLINEBRY 53% 48% 36%

POOL 2 33470 HOUSE; TUBB, NORTH 18% 25% 19%

POOL 3 33250 HOUSE DRINKARD 29% 27% 45%

POOL 4 _____

DOWNHOLE COMMINGLE CALCULATIONS:

SECTION I

ALLOWABLE AMOUNTS

POOL 1 HOUSE; BLINEBRY 142 284 MCF

POOL 2 HOUSE; TUBB, NORTH 142 284 MCF

POOL 3 HOUSE; DRINKARD 142 284 MCF

POOL 4 _____ MCF

POOL TOTALS 426 852

SECTION II:

OIL

GAS

POOL 1 HOUSE; BLINEBRY 53%

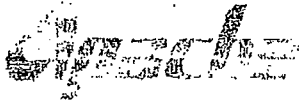
POOL 2 HOUSE; TUBB, NORTH 18%

POOL 3 HOUSE DRINKARD 29% X 426 = 123.54

POOL 4 _____

SECTION III: OIL 29% ÷ 142 = 489.66 (490) GAS

SECTION IV: 53% X 490 = 259.7 (260)
18% X 490 = 88.2 (88)
29% X 490 = 142.1 (142)



January 14, 2014

Bureau of Land Mgmt - CFO
620 E Greene St
Carlsbad, NM 88220

RE: Downhole Commingling Application
Werta Federal #4 API 30-025-41593
Unit I, Section 35, T19S, R38E
House; Blinebry (33230), House; Tubb, North (33470) & House; Drinkard (33250)
Lea County, New Mexico

Dear Mr. Ingram,

Enclosed please find form 3160-5 and attachments for downhole commingling the captioned well. The ownerships (WI, NRI and ORRI) of these pools are identical in this wellbore. The fluids from each of these pools are compatible as seen in other similar commingles in the area. Combining these fluids will not result in any damage to these pools. Commingling will improve the efficiency of present and future recovery operations. Cross flow will not be a problem due to having a production lift system capable of keeping the well pumped off thereby maximizing production. This commingling will not reduce the value of the total remaining production.

Interests and allocations are the same as the Werta Federal #'s 1, 2, & 3. The allocation method used for this well was determined by analyzing the cumulative oil, gas and water production in a nine section area of review surrounding this well. Supporting documentation is shown on the attached spreadsheet. Production for active and inactive wells was grouped by pool in the area of review. The totals for each phase were then divided by the number of wells associated with this pool yielding an average. This average was used to determine the percentage allocation.

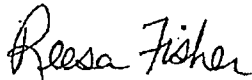
The main reason for using this method is based on economics and minimizing reservoir damage. Past completion practices had all three zones perforated and fracture stimulated during one full week. Each zone was isolated by a retrievable bridge plug to allow for production testing of each zone for allocation purposes. This testing period lasted as long as one month before a stabilized rate was observed thus allowing the next zone to be brought on and tested. During this time period the completion fluids used were still confined to the other reservoirs causing gel damage. It is a common practice to get these fluids out of the wellbore as soon as possible to help maximize productivity. On a cost basis it is more expensive to have a completion rig move in and out multiple times to bring on

each new zone. Several other factors such as weather, other new completions and regulatory well work may interfere with these new wells.

The area of review used encompasses what has been accepted as a good statistical representation for allocation purposes. By using this allocation method all zones will be brought online in a more effective and efficient manner. This will in turn generate a higher productive rate and quicker revenue streams not only for the operator but for the State of New Mexico too.

This well is due to spud on or about January 15, 2014. An expedited approval for the DHC and surface commingle would be greatly appreciated as the economic detriment is significant. Apache's experience in the area has shown that completed wells that are not allowed to be commingled and produced immediately have lower IP's, and do not recover the same reserves as those that do. If you need additional information or have questions, please give me a call at (432) 818-1062 or the Engineer, Ryan Taylor at (432) 818-1156.

Sincerely,

A handwritten signature in cursive script that reads "Reesa Fisher".

Reesa Fisher
Sr. Staff Regulatory Analyst

Well Test History Report

Page 1 of 2
1/15/2014 8:13:27 am

Select By: Field

Display: All well tests between 07/01/2013 - 01/13/2014

Test Date	Effective Date	Measured Hours	Type	24 Hour Volumes					Ratios					Fluid Level
				Gr Liquid	OIL	GAS	WAT	LIFT	COR	GLR	ICOR	IGLR	TGLR	
Field: HOUSE														
WERTA FEDERAL #1														
7/25/2013	7/25/2013	24	A	10	5	22	5	0	4,400	2,200	0	0	2,200	
8/30/2013	8/30/2013	24	A	10	5	20	5	0	4,000	2,000	0	0	2,000	
9/28/2013	9/28/2013	24	A	10	5	19	5	0	3,800	1,900	0	0	1,900	
10/27/2013	10/27/2013	24	A	10	5	18	5	0	3,600	1,800	0	0	1,800	
11/28/2013	11/28/2013	24	A	10	5	18	5	0	3,600	1,800	0	0	1,800	
12/18/2013	12/18/2013	24	A	10	5	15	5	0	3,000	1,500	0	0	1,500	
12/30/2013	12/30/2013	24	A	10	5	15	5	0	3,000	1,500	0	0	1,500	
Averages by Completion				10	5	18	5	0						
WERTA FEDERAL #2														
7/25/2013	7/25/2013	24	A	137	47	100	90	0	2,128	730	0	0	730	
8/30/2013	8/30/2013	24	A	120	40	100	80	0	2,500	833	0	0	833	
9/24/2013	9/24/2013	24	A	105	38	94	67	0	2,474	895	0	0	895	
10/21/2013	10/21/2013	24	A	100	35	89	65	0	2,543	890	0	0	890	
11/25/2013	11/25/2013	24	A	95	35	84	60	0	2,400	884	0	0	884	
12/16/2013	12/16/2013	24	A	96	31	77	65	0	2,484	802	0	0	802	
12/30/2013	12/30/2013	24	A	66	31	77	55	0	2,484	1,167	0	0	1,167	
Averages by Completion				103	37	89	66	0						
WERTA FEDERAL #3														
7/1/2013	7/1/2013	24	A	171	25	33	146	0	1,320	193	0	0	193	
7/11/2013	7/11/2013	24	A	132	20	32	112	0	1,600	242	0	0	242	
7/12/2013	7/12/2013	24	A	135	26	32	109	0	1,231	237	0	0	237	
7/13/2013	7/13/2013	24	A	174	21	32	153	0	1,524	184	0	0	184	
7/15/2013	7/15/2013	24	A	94	20	31	74	0	1,550	330	0	0	330	
7/25/2013	7/25/2013	24	A	165	23	48	142	0	2,087	291	0	0	291	
7/26/2013	7/26/2013	24	A	227	46	58	181	0	1,261	256	0	0	256	
7/27/2013	7/27/2013	24	A	195	20	52	175	0	2,600	267	0	0	267	
7/28/2013	7/28/2013	24	A	203	38	59	165	0	1,553	291	0	0	291	
7/29/2013	7/29/2013	24	A	227	24	55	203	0	2,292	242	0	0	242	
8/13/2013	8/13/2013	24	A	178	27	50	151	0	1,852	281	0	0	281	
8/14/2013	8/14/2013	24	A	199	25	49	174	0	1,960	246	0	0	246	
8/15/2013	8/15/2013	24	A	242	29	50	213	0	1,724	207	0	0	207	
8/16/2013	8/16/2013	24	A	207	27	50	180	0	1,852	242	0	0	242	
8/17/2013	8/17/2013	24	A	194	23	51	171	0	2,217	263	0	0	263	

** All values are recorded using imperial units.

Well Test History Report

Page 2 of 2
1/15/2014 8:13:27 am

Select By: Field

Display: All well tests between 07/01/2013 - 01/13/2014

Test Date	Effective Date	Measured Hours	Type	24 Hour Volumes					Ratios					Fluid Level
				Gr Liquid	OIL	GAS	WAT	LIFT	GOR	GLR	IGOR	IGLR	TGLR	
Field: HOUSE														
WERTA FEDERAL #3														
8/18/2013	8/18/2013	24	A	199	27	42	172	0	1,556	211	0	0	211	
8/25/2013	8/25/2013	24	A	180	30	46	150	0	1,533	256	0	0	256	
8/30/2013	8/30/2013	24	A	196	26	51	170	0	1,962	260	0	0	260	
9/25/2013	9/25/2013	24	A	185	25	50	160	0	2,000	270	0	0	270	
10/22/2013	10/22/2013	24	A	173	23	48	150	0	2,087	277	0	0	277	
11/28/2013	11/28/2013	24	A	163	25	43	138	0	1,720	264	0	0	264	
12/17/2013	12/17/2013	24	A	124	23	38	101	0	1,652	306	0	0	306	
12/30/2013	12/30/2013	24	A	124	23	38	101	0	1,552	306	0	0	306	
Averages by Completion				178	26	45	152	0						

** All values are recorded using imperial units.

Warta Federal #4
30-025-41593
Apache Corp.

Lease Name	Well Number	10DIGITAP	Location	Cum Oil (BBL)			Cum Gas (MCF)			Cum Water (BBL)		
				Blinbry	Tubb	Drinkard	Blinbry	Tubb	Drinkard	Blinbry	Tubb	Drinkard
WARTA FEDERAL	1	3002527898	18S 38E 35O SW SE	46469	14640	11778	230640	10262	24012	56471	10929	20470
L & M	1	3002520287	20S 30E 2N C S2 SW	2365	10310	584	20481	134601	2400	3910	1694	1144
REDTAG	1	3002535333	20S 30E 2J NW NW SE	27744	4966	4740	82918	16600	27237	17293	26868	36068
PLOWBOY FEDERAL	1	3002538802	18S 38E 35J NW NW SE	25231	133	133	83025	980	1158			
L & M	2	3002539450	20S 38E 2	2475	1775	13427	35875	45313	107628	17374	8085	31852
L & M	3	3002530852	20S 38E 2	2338	1671	12702	18119	20381	48359	10719	5186	18672
REDTAG	3	3002530855	20S 38E 2	1973	2334	13841	7760	17313	34033	21642	15004	38415
REDTAG	4	3002530868	20S 38E 2K NE SW	825	815	3503	15218	18836	38398			
L & M	8	3002540282	20S 38E 2N	321	229	1744	2022	2554	6067	2200	1100	4036
TOTALS				109,841	36,882	62,362	804,064	266,820	289,902	129,809	89,806	159,857
AVERAGES				12,205	4,076	6,828	69,007	29,847	32,211	18,644	9,929	22,808

Proposed Allocations	Oil	Gas	Water
Blinbry	53%	49%	36%
Tubb	18%	25%	10%
Drinkard	28%	27%	45%
TOTAL	100%	100%	100%

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DISTRICT I

1825 N. French Dr., Hobbs, NM 88240

Phone (505) 293-0141 Fax (505) 315-0720

DISTRICT II

511 S. First St., Artesia, NM 88210

Phone (505) 384-0118 Fax (505) 331-0174

DISTRICT III

1000 Rto. Brozos Rd., Aztec, NM 87410

Phone (505) 384-0118 Fax (505) 331-0174

DISTRICT IV

1220 S. St. Francis Dr., Santa Fe, NM 87505

Phone (505) 476-3460 Fax (505) 476-3403

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Santa Fe, New Mexico 87505

Form C-102

Revised August 1, 2011

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District Office

WELL LOCATION AND ACREAGE DEDICATION PLAT

☐ AMENDED REPORT

API Number 30-025-41593	Pool Code 33230	Pool Name House; Blinberg
Property Code 302384	Property Name WERTA Federal	Well Number 4
OCRID No. 873	Operator Name APACHE CORPORATION	Elevation 3588

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
1	35	19 S	38 E		1650	SOUTH	990	EAST	LEA

Bottom Hole Location If Different From Surface

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
Dedicated Acres 40	Joint or Infill	Consolidation Code	Order No.	DHC-HOB-529					

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED
OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

N 592831.79 E 912490.41 (NAD-83)		N 592898.41 E 917768.64 (NAD-83)	OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division. Signature <u>Sorina L. Flores</u> Date <u>3/26/13</u> Printed Name <u>Sorina L. Flores</u> Email Address <u>Sorina.Flores@apacorp.com</u>
			SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision and that the same is true and correct to the best of my belief. Date Surveyed <u>March 13, 2013</u> Signature & Seal of Professional Surveyor <u>[Signature]</u> Certificate No. <u>Gary L. Jones 7877</u> BASIN SURVEYS <u>28227</u>
	SURFACE LOCATION Lot - N 32°36'50.16" Long - W 103°08'50.13" NMSPCE - N 589233.07 (NAD-83) Lot - N 32°36'49.75" Long - W 103°08'48.41" NMSPCE - N 589174.21 E 975629.43 (NAD-27)		
N 587548.45 E 912537.80 (NAD-83)	32.413819 103.113447	N 587550.40 E 915177.91 (NAD-83)	N 587603.03 E 917815.17 (NAD-83)

JAN 13 2014

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DISTRICT I

1025 N. French Dr., Hobbs, NM 88240

Phone (505) 333-4161 Fax (505) 333-0726

DISTRICT II

811 S. First St., Artesia, NM 88210

Phone (505) 748-1803 Fax (505) 748-0720

DISTRICT III

1000 Rio Grande Rd., Aztec, NM 87410

Phone (505) 334-4176 Fax (505) 334-6170

DISTRICT IV

1000 S. St. Francis Dr., Santa Fe, NM 87505

Phone (505) 400-4100 Fax (505) 470-2400

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District Office

OIL CONSERVATION DIVISION

1220 South St. Francis Dr.

Santa Fe, New Mexico 87505

WELL LOCATION AND ACREAGE DEDICATION PLAT

☐ AMENDED REPORT

API Number 30-025-41593	Pool Code 33470	Pool Name House; Tubb, N.
Property Code 302384	Property Name WERTA Federal	Well Number 4
OGRID No. 873	Operator Name APACHE CORPORATION	Elevation 3588

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn.	Feet from the	North/South line	Feet from the	East/West line	County
1	35	19 S	38 E		1650	SOUTH	990	EAST	LEA

Bottom Hole Location If Different From Surface

UL or lot No.	Section	Township	Range	Lot Idn.	Feet from the	North/South line	Feet from the	East/West line	County
Dedicated Acres 40	Joint or Infill	Consolidation Code	Order No. DHC-HDB-529						

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED
OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

N 592831.79 E 912490.41 (NAD-83)		N 592896.41 E 917768.64 (NAD-83)	OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division. Signature: <u>Sorina L. Flores</u> Date: <u>3/26/13</u> Printed Name: <u>Sorina L. Flores</u> Email address: <u>Sorina.L.Flores@apachecorp.com</u>
	SURFACE LOCATION Lat - N 32°36'50.16" Long - W 103°06'50.13" NADSPCE - N 509233.07 E 916811.04 (NAD-83) Lat - N 32°36'49.75" Long - W 103°06'48.41" NADSPCE - N 589174.21 E 875629.43 (NAD-27)		SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision and that the same is true and correct to the best of my belief.  Date Surveyed: <u>3/26/13</u> Signature & Seal of Professional Surveyor: <u>Gary L. Jones</u> Certificate No. <u>Gary L. Jones 7977</u> BASIN SURVEYS 28227
N 587548.45 E 912537.80 (NAD-83)	N 587559.40 E 915177.91 (NAD-83)	N 587603.03 E 917815.17 (NAD-83)	

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DISTRICT I RECEIVED

1006 N. French Dr., Hobbs, NM 88240
Phone (505) 393-0161 Fax (505) 383-0720DISTRICT II
511 S. First St., Artesia, NM 86210
Phone (505) 745-1223 Fax (505) 745-0720DISTRICT III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone (505) 554-0178 Fax (505) 334-4170DISTRICT IV
1820 S. St. Francis Dr., Santa Fe, NM 87505
Phone (505) 474-2400 Fax (505) 476-2400

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Santa Fe, New Mexico 87505Form C-102
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District Office

WELL LOCATION AND ACREAGE DEDICATION PLAT

☐ AMENDED REPORT

API Number 30-025-451593	Pool Code 33250	Pool Name House; Drinkard
Property Code 302384	Property Name WERTA Federal	Well Number 4
OGRID No. 873	Operator Name APACHE CORPORATION	Elevation 3588

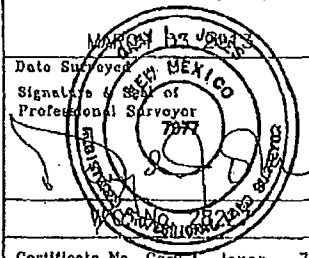
Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
1	35	19 S	38 E		1650	SOUTH	990	EAST	LEA

Bottom Hole Location If Different From Surface

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
Dedicated Acres 40	Joint or Infill	Consolidation Code	Order No. DHC-40B-529						

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	SURFACE LOCATION Lot - N 32°36'50.16" Long - W 103°06'50.13" NADSPCE - N 589233.07 E 916811.04 (NAD-83) Lot - N 32°30'48.75" Long - W 103°06'48.41" NADSPCE - N 589174.21 E 875629.43 (NAD-27)		SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief. Date Surveyed Signature & Seal of Professional Surveyor  Certificate No. Gary L. Jones 7977 BASIN SURVEYS 28227
N 587548.45 E 912537.80 (NAD-83)	N 587550.40 E 915177.91 (NAD-83)	N 587603.03 E 917815.17 (NAD-83)	

dm