	UNITED STATES EPARTMENT OF THE IN UREAU OF LAND MANA	NIERIOR	OCD Hobbs OMB NO. 1004- Expires: July 31,			
	NOTICES AND REPO		N	5. Lease Serial No. NMNM88164		
abandoned we	II. Use form 3160-3 (API	D) for such proposals.	6. If	6. If Indian, Allottee or Tribe Name		
SUBMIT IN TRI	7. If	Unit or CA/Agree	ment, Name and/or No.			
1. Type of Well ☐ Gas Well ☐ Ot		ell Name and No. ultiple-See Attac	hed			
2. Name of Operator YATES PETROLEUM CORP.		PI Well No. IultipleSee Att	ached			
3a. Address 105 SOUTH FOURTH STREI ARTESIA, NM 88210	2) 10. 1	10. Field and Pool, or Exploratory WILDCAT				
4. Location of Well <i>(Footage, Sec., T</i>	. 11. (County or Parish, a	nd State			
MultipleSee Attached			L	EA COUNTY, N	IM	
12. CHECK APP	ROPRIATE BOX(ES) TO	INDICATE NATURE OF	NOTICE, REPOR	T, OR OTHER	DATA	
TYPE OF SUBMISSION		ТҮРЕ С	PF ACTION		······································	
Notice of Intent	🗖 Acidize	Deepen	Production (S	tart/Resume)	U Water Shut-Off	
Subsequent Report	Alter Casing	Fracture Treat	□ Reclamation		U Well Integrity	
☐ Final Abandonment Notice	 Casing Repair Change Plans 	New Construction Plug and Abandon	Recomplete Temporarily A	handon	🛿 Other Workover Operations	
	Convert to Injection	Plug Back	□ Water Dispos			
from the state, DHC-1639, is Both intervals have common compatible. Fluid analysis at during completion, however o Gas, oil and water analysis at commingle will improve the co Yates Petroleum Corporation Bone Spring perforations. Th	ownership and we have no tached. There were no oil il gravity and gas BTU sho tached from the Bone Spr urrect production and ecor plans to commingle by re te production allocation wi	ot experience any cross flow or gas samples taken from I buld correlate closely with off ing producer Hemlock BSH momics of the well. moving the RBP which is cur I be done by subtracting the	Bone Spring set wells St 1H. The downh rrently set above th current	e Altri	VED 8 2014 CEMENT	
14. I hereby certify that the foregoing i	s true and correct.	263694 verified by the BLM W	all Information Subt		TAND MANADELOF	
C	For YATES PETR	COLEUM CORPORATION, sen	n 11/05/2014 (15LJ	241SENREAU OF	BADFILLE	
Name (Printed/Typed) LAURA V	VATTS	263694 verified by the BLM Wo OLEUM CORPORATION, sen cessing by LINDA JIMENEZ o Title REG F	REPORTING TECH	INICIAN COM		
Signature (Electronic	Submission)	Date 09/15/	2014			
	THIS SPACE FO	OR FEDERAL OR STATE	OFFICE USE			
Approved By_EDWARD FERNAN			EUM ENGINEER		Date 12/08/2014	
Conditions of approval, if any, are attached certify that the applicant holds legal or ed which would entitle the applicant to cond	ed. Approval of this notice does uitable title to those rights in the	not warrant or		KA		
Title 18 U.S.C. Section 1001 and Title 43 States any false, fictitious or fraudulent	U.S.C. Section 1212, make it a statements or representations as	crime for any person knowingly an to any matter within its jurisdiction	nd willfully to make to n.	any department or	agency of the United	
** BLM RE\	/ISED ** BLM REVISEI	D ** BLM REVISED ** BL	M REVISED ** E) **	
O H C	- 16 79	SEE ATTACHI CONDITIONS		AL D	EC 2 2 2010	

.

Additional data for EC transaction #263694 that would not fit on the form

Wells/Facilities, continued

Agreement	Lease	Well/Fac Name, Number	API Number	Location
NMNM88164	NMNM88164	PARSLEY ARA FED 01	30-025-33863-00-S1	Sec 26 T23S R32E SESE 760FSL 990FEL
NMNM88164	NMNM88164	PARSLEY ARA FED 01	30-025-33863-00-S2	Sec 26 T23S R32E SESE 760FSL 990FEL

32. Additional remarks, continued

. .

Delaware production from what the well will be producing commingle. These calculations will be sent to your office when established. Delaware production curve attached.

Conditions of Approval

Sundries dated 6/13/14 and 9/15/2014 Yates Petroleum Corporation Parsley ARA Fed 1 API 3002533863, T23S-R32E, Sec 26 December 8, 2014

- 1. DHC work approved as written
- 2. Subject to like approval by the New Mexico Oil Conservation Division.
- 3. Surface disturbance beyond the existing pad must have prior approval.
- 4. A closed loop system is required. The operator shall properly dispose of drilling/circulating contents at an authorized disposal site. Tanks are required for all operations, no excavated pits.
- 5. Functional H_2S monitoring equipment shall be on location.
- 6. A minimum of 3000 (3M) BOPE shall be used. All blowout preventer (BOP) and related equipment (BOPE) shall comply with reasonable well control requirements. A two ram system with a blind ram and a pipe ram designed for the size of the work string shall be adequate. Tapered work strings will require an additional pipe ram. The manifold shall comply with Onshore Oil and Gas Order #2 Attachment I (3M) Diagrams of Choke Manifold Equipment). The accumulator system shall have an immediately available power source to close the rams and retain 200 psi above pre-charge. The pre-charge test shall follow requirements in Onshore Order #2.
- 7. All waste (i.e. trash, salts, chemicals, sewage, gray water, etc.) created as a result of work over operations shall be safely contained and disposed of properly at a waste disposal facility. No waste material or fluid shall be disposed of on the well location or surrounding area. Porto-johns and trash containers will be on-location during fracturing operations or any other crew-intensive operations.
- 8. File intermediate **subsequent sundry** Form 3160-5 within 30 days of any interrupted workover procedures and a complete workover subsequent sundry.
- 9. Submit the BLM Form 3160-4 **Recompletion Report** within 30 days of the date all BLM approved procedures are complete.
- 10. Workover approval is good for 90 days (completion to be within 90 days of approval). A legitimate request is necessary for extension of that date.

EGF 120814

	Downhole Comm			
perator: Yates Petroleur	n Carp,			
ease/Wall Name/API Number/Location Nate:	:NM - 88 164 /1	Parsley ARI	+ Fed # 1/30-	025-33863/
ate:	· · · · · · · · ·	0	Ser 261	7235, R32E, V
				Estimated Combined
		Middle Formation	Upper Formation	Production Data
boiname	Triste Draw B.Sp	hel.	Trisk Draw Del	
pol Code	96603	N/A	59930	
tate Form C-102 with dedicated Acres		1	. (
Tovided	Yes	NA	Yes.	
ormationName	Rone Springs		Delaware	
op and Bottom of Pay Section				
Perforated or open-Hole Interval)	8971-10,075		8521-8550	
Method of production	Artificial lift		Artificial lift	
lottom Hole Pressure	4,332 ps;		3676PS	0.43 FSY/FI + MD
leservoir Drive mechanism	solution gas		Solution cas	
Dil gravity and/or BTU	43.1/1333	Ч	7.8/ 1268	*
		/		*
Verage Sulfur Content (Wt %)	0.1947		0.1947	~
Dil sample Analysis provided	Ves		Yes	L
Sas Analysis provided	Yes.		Yes	
Produce Water Analysis provided	Yes		Yes	
H2S present	No		No	*
Producing, Shut-In or New Zone	shut-in	· · · ·	Producing	
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~				
Date and Oil/Gas/Water rates of Last	5-23-97	-	7-23-2014	
Production (new zones or no production	10 BOPD		TBOPD	17 60PD
history Operator shall attached production	40 GWPD		OBWPD	40 ELOPD
estimated and supporting data )	25 mcfgpd		omitd	25 mcFD
u	Unknown -		Production Plot attache	*
Average decline % (provide back up data)	will be	1	Plot attache	ð
Fixed Allocation Percentage	Submitted			•
	producing	• • • • • • • • • • • • • • • • • • • •		
Remarks * Fixed alloc after both zones o established as T Operator Signature: Ma	ation force reproduce some springs	untages und so the and so the and so the source of the second sec	vill be sub uch percent im data is monieth	so old.
Date:	<u>v</u> , , , , , , , , , , , , , , , , , , ,	÷ ·	+ Q	t
	7			
Attached Supporting documents	<u> </u>			
State Form C-102 with dedicated Acres				
Oil sample Analysis provided (Must ba	-			
Gas Analysis provided (Must be curren	•			
Produce Water Analysis provided (Mus	-			
Any additional supporting data (i.e. off	set well production an	d decline curves et	<u>-</u> .)	
*Utilize weighted average.				
	ł			
<i>i</i> .				



## NEW MEXICO ENERGY, MINERALS & NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION 2040 South Pacheco Street Santa Fe, New Mexico 87605 (505) 827-7131

#### ADMINISTRATIVE ORDER DHC-1639

Yates Petroleum Corporation 105 South Fourth Street Artesia, New Mexico 88210

Attention: Mr. Morris Keith

Parsley "ARA" Federal Well No.1 API No. 30-025-33863 Unit P, Section 26, Township 23 South, Range 32 East, NMPM, Lea County, New Mexico. Triste Draw-Delaware (59930) and Triste Draw-Bone Spring Pools

Dear Mr. Keith:

Reference is made to your recent application for an exception to Rule 303.A. of the Division Rules and Regulations to permit the above described well to commingle production from the subject pools in the wellbore.

It appearing that the subject well qualifies for approval for such exception pursuant to the provisions of Rule 303.C., and that reservoir damage or waste will not result from such downhole commingling, and correlative rights will not be violated thereby, you are hereby authorized to commingle the production as described above and any Division Order which authorized the dual completion and required separation of the zones is hereby placed in abeyance.

In accordance with the provisions of Rule 303.C., the daily allowable producing rates from the subject well are hereby established as follows:

Oil 107 B/D Gas 214 MCF/D Water 214 B/D

Assignment of allowable to the well and allocation of production from the well shall be on the following basis:

Triste Draw-Delaware Pool	Oil 40%	Gas 0%
Triste Draw-Bone Spring Pool	Oil 60%	Gas 100%

Administrative Order DHC-1639 Yates Petroleum Corporation August 27, 1997 Page 2

REMARKS: The operator shall notify the Hobbs District Office of the Division upon implementation of the commingling process.

Pursuant to Rule 303.H., the commingling authority granted herein may be rescinded by the Division Director if, in his opinion, conservation is not being best served by such commingling.

Approved at Santa Fe, New Mexico on this 27th day of August, 1997.

STATE OF NEW MEXICO OIL CONSERVATION DIVISION

WILLIAM J. KHMAY Director

SEAL

WJL/DRC

.....

cc: Oil Conservation Division - Hobbs Buruea of Land Management-Carlsbad

DHC (7/28/97

631

JUL - 7 1997



105 SOUTH FOURTH STREET ARTESIA, NEW MEXICO 88210 TELEPHONE (505) 748-1471 S. P. YATES CHAIRMAN OF THE BOARD JOHN A. YATES PRESIDENT PEYTON YATES EXECUTIVE VICE PRESIDENT RANDY G. PATTERSON SECRETARY DENNIS G. KINSEY TREASURER

July 1, 1997

MARTIN YATES. 111 1912-1985

FRANK W. YATES

1936 - 1986

David Catanach State of New Mexico OIL CONSERVATION DIVISION 2040 S. Pacheco Street Santa Fe, NM 87505-5472

Dear Mr. Catanach,

Enclosed are the necessary documents for obtaining approval for the downhole commingling of the Parsley ARA Federal #1 located in Unit P of Section 26, Township 23 South, Range 32 East, Lea County.

Should you have any questions, feel free to contact me at (505) 748-1471. Thank you.

Sincerely,

Morno Keel

Morris Keith Engineer

MK/th

Enclosures

Trisk Daw Deve Javis Trisk Daw Dave Javis Trisk Daw

MARTIN YATES, III 1912 - 1985 FRANK W. YATES 1986 - 1986



105 SOUTH FOURTH STREET ARTESIA, NEW MEXICO 88210 TELEPHONE (505) 748-1471 S. P. YATES CHAIRMAN OF THE BOARD JOHN A. YATES PRESIDENT PEYTON YATES EXECUTIVE VICE PRESIDENT RANDY G. PATTERSON SECRETARY DENNIS G. KINSEY TREASURER

July 1, 1997

Chris Williams State of New Mexico OIL CONSERVATION DIVISION P. O. Drawer 1980 Hobbs, NM 88240

Dear Mr. Williams,

Enclosed are the necessary documents for obtaining approval for the downhole commingling of the Parsley ARA Federal #1 located in Unit P of Section 26, Township 23 South, Range 32 East, Lea County.

Should you have any questions, feel free to contact me at (505) 748-1471. Thank you.

Sincerely,

Morus Kein

Morris Keith Engineer

MK/th

Enclosures

MARTIN YATES. (() 1912 - 1985 FRANK W. YATES 1936 - 1986



105 SOUTH FOURTH STREET ARTESIA, NEW MEXICO 88210 TELEPHONE (505) 748-1471 S. P. VATES CHARMAN OF THE BOARD JOHN A. YATES PRESIDENT PEYTON YATES EXECUTIVE VICE PRESIDENT RANDY G. PATTERSON SECRETARY DENNIS G. KINSEY TREASURER

July 1, 1997

Bureau of Land Management 414 W. Taylor Hobbs, NM 88240

Ladies and Gentlemen,

Yates Petroleum Corporation has made an application for administrative approval for downhole commingling for the Parsley ARA Federal #1 located in Unit P of Section 26, Township 23 South, Range 32 East, Lea County. Please find attached application. This will serve as notification to an offset operator.

Should you have any questions, or need additional information, please do not hesitate to contact me at (505) 748-1471.

Sincerely,

morno Keek

Morris Keith Operations Engineer

MARTIN YATES, III 1912 - 1985 FRANK Ŵ. YATES 1936 - 1986



S. P. YATES CHAIRMAN OF THE BOARD JOHN A. YATES PRESIDENT PEYTON YATES EXECUTIVE VICE PRESIDENT RANDY G. PATTERSON SECRETARY DENNIS G. KINSEY TREASURER

105 SOUTH FOURTH STREET ARTESIA, NEW MEXICO 88210 TELEPHONE (505) 748-1471

July 1, 1997

Burlington Resources P. O. Box 51810 Midland, TX 79710-1810

Ladies and Gentlemen,

Yates Petroleum Corporation has made an application for administrative approval for downhole commingling for the Parsley ARA Federal #1 located in Unit P of Section 26, Township 23 South, Range 32 East, Lea County. Please find attached application. This will serve as notification to an offset operator.

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Morns Keth

Morris Keith Operations Engineer

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105 SOUTH FOURTH STREET ARTESIA, NEW MEXICO 88210 TELEPHONE (505) 748-1471

July 1, 1997

Perry & Perry, Inc. P. O. Box 371 Midland, TX 79702-0371

Ladies and Gentlemen,

Yates Petroleum Corporation has made an application for administrative approval for downhole commingling for the Parsley ARA Federal #1 located in Unit P of Section 26, Township 23 South, Range 32 East, Lea County. Please find attached application. This will serve as notification to an offset operator.

Should you have any questions, or need additional information, please do not hesitate to contact me at (505) 748-1471

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Morns Keat

Morris Keith Operations Engineer

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S. P. YATES CHAIRMAN OF THE BOARD JOHN A. YATES PRESIDENT PEYTON YATES EXECUTIVE VICE PRESIDENT RANDY G. PATTERSON SECRETARY DENNIS G. KINSEY TREASLARER

105 SOUTH FOURTH STREET ARTESIA, NEW MEXICO 88210 TELEPHONE (505) 748-1471

July 1, 1997

Estacado, Inc. P. O. Box 5587 Hobbs, NM 88241-5587

Ladies and Gentlemen,

Yates Petroleum Corporation has made an application for administrative approval for downhole commingling for the Parsley ARA Federal #1 located in Unit P of Section 26, Township 23 South, Range 32 East, Lea County. Please find attached application. This will serve as notification to an offset operator.

Should you have any questions, or need additional information, please do not hesitate to contact me at (505) 748-1471.

Sincerely,

more head

Morris Keith Operations Engineer

<i>.</i> .		State of New Mexico	
<u>DISTRICT I</u>	Energy, Miner	Form C-107-A New 3-12-95	
P.C. Box 1983, Hotsy, Mil 88241-1980	0/1 001	CONTINUE DIVICION	
<u>DISTRICT II</u>	OIL CUI	SERVATION DIVISION	APPROVAL PROCESS:
811 Seath First St., Artania, NM 68210-2835	Santa	2040 S. Pacheco a Fe, New Mexico 87505-6429	X Administrative Kearing
DISTRICT IN	ADDUCATION	FOR DOWNHOLE COMMINGLING	EXISTING WELLBORE
10CE Hic Brittes Rd, Artec, MM 87410-1553	AFFLIGATION		X YES NC
Yates Petroleum Corporation	105 S. Fourth Street	Artesia, NM 8821	0
3porasor	Addr 151		
Parsley ARA Federal	1 ·	P 26-23S-32E	Lea ·
Leaso	Well No.	Nhit LW Soc - Two - Age	County
OGRID NO. <u>025575</u> Property Cod	ie <u>020478</u> ap		Specing Unit Lease Types (sheith 1 or ment): edered, State, (onder) Fee
The following facts are submitted in support of downhole commingling:	Upper Zone	Intermediste Zone	Lowe: Zene
1. Pool Name and Pool Code	Wildcat Delaware 96060		Wildcat Bone Springs 96053
2. Top and Battern of Pay Section (Perforations)	8521′-8550′		8971'-10075'
3. Type of production (Oil or Gas)	Oil		Oil
4. Hethod of Production (Flowing or Artificial Lift)	Artificial Lift		Artificial Lift
5. Bottomhole Pressure	a. (Current)	8.	a. (Current)
Oil Zages - Artificiel Litt: Estimated Current	2500		2600
Gas & Oil - Flowing: Measured Current All Gas Zones:	b, (Original)	b.	b. (Original)
Estimated Dr Measured Original 6. Oli Gravity ( APU or Ges BTU Content	42.4		43.0
7. Producing or Shutim?	Producing		Shut-In
Production Marginal? (yes or no)	Yes		HE YES
• If Shut-In, give date and odigas/water rates of	Date:	Datec	 
last production	Raterc	Rates:	
Note: For new zones with no preduction Hypory, applicant shall be reported to attach production estimates and supporting data			Researce 10 BOPD 40 BWPD 25 MCFGPD
' It Producing, give date and oil/gas/water rates of	Date: 6-26-97	Data:	Daw:
recent test (within 60 days)	Rume: 7 BOPD 66 BWPD 0 MCFGPD	Rates;	Rates
8. Fixed Percentage Allocation Formula -% for each zone	ait 621: 40% 0%	04: 6m; 0% 0%	•± 6ax 60% 100%

9. If allocation formula is based upon something other than current or past production, or is based upon some other method, submit attachments with supporting data and/or explaining method and providing rate projections or other required data.

10. Are all working, overriding, and royalty interests identical in all commingled zones? If not, have all working, overriding, and royalty interests been notified by certified mail? Have all offset operators been given written notice of the proposed downhole commingling? <u>X</u> Yes No Yes No <u>X</u> Yes No

11. Will cross-flow occur? Yes X No If yes, are fluids compatible, will the formations not be damaged, will any cross-flowed production be recovered, and will the allocation formula be reliable. Yes No (If No, attach explanation)

(total of %'s to equal 100%)

Parsley ARA Federal #1 Page 2

.

12. Are all produced fluids from all commingled zones compatible with each other? <u>X</u> Yes No
13. Will the value of production be decreased by commingling?Yes _XNo (If Yes, attach explanation)
14. If this well is on, or communitized with, state or federal lands, either the Commissioner of Public Lands or the United States Bureau Land Management has been notified in writing of this application. ————————————————————————————————————
15. NMOCD Reference Cases for Rule 303(D) Exceptions: ORDER NO(S).
<ul> <li>16. ATTACHMENTS:</li> <li>* C-102 for each zone to be commingled showing its spacing unit and acreage dedication.</li> <li>* Production curve for each zone for at least one year. (If not available, attach explanation.)</li> <li>* For zones with no production history, estimated production rates and supporting data.</li> <li>* Data to support allocation method or formula.</li> <li>* Notification list of all offset operators.</li> <li>* Notification list of working, overriding, and royalty interests for uncommon interest cases.</li> <li>* Any additional statements, data, or documents required to support commingling.</li> </ul>
I hereby certify that the information above is true and complete to the best of my knowledge and belief. SIGNATURE
TYPE DR PRINT NAME Morris Keith TELEPHONE NO. (505) 748-1471

District 1 PO Box 1980, Hobba, NM 88241-1980 District II PO Drawer DD, Artenia, NM 88211-0719 District III 1000 Rio Brazna Rd., Aztee, NM 87410 District IV PO Box 2088, Santa Fe, NM 87564-2088

#### State of New Mexico Energy, Miserals & Natural Ressources Department

## OIL CONSERVATION DIVISION PO Box 2088 Santa Fe, NM 87504-2088

Form C-102 Revised February 10, 1994 Instructions on back Submit to Appropriate District Office State Lease - 4 Copies Fee Lease - 3 Copies

AMENDED REPORT

## WELL LOCATION AND ACREAGE DEDICATION PLAT

, v	PI Numbe	ser ³ Pe			1		' Pool N	NDC			
30-025-3	3863			96053		Wildcat Bone Springs					
· Property (	أجري ومقاربة فكالمستعد المتكرات				* Property	* Property Name * Well Number					
020478		Pa	Parsley ARA Federal 1								
'OGRED !	la.	¹ Operator Name			¹ Operator Name ¹ Elevation						
025575		Yat	es Pet	roleum	Corporatio	orporation 3690'					
					¹⁰ Surface	Location					
UL or lot no.	Section	Township	Range	Lot Ida	Fost from the	North/South line	Feet from the	East/Wes	line	County	
P	26	235	32E		760	South	990	Ea	st	Lea	
<u> </u>				tom Hol		f Different Fr		J		1,	
UL or lot no.	Section	Township	Range	Locida	Feet from the	North/South Line	Feet from the	East/Wes	ther	Coultry	
" Dedicated Act	nal ^{1ª} laiot	or Infill   "	Consolidatio	n Code   4	Drder No.	1	1			1	
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State of New Mexico Energy, Minerals & Natural Resources Dep District I PO Box 1986, Hobbs, NM 88241-1980 erneriment Revised February 10, 1994 District II Instructions on back PO Deswer DD, Artonia, NM 88211-0719 OIL CONSERVATION DIVISION Submit to Appropriate District Office District III PO Box 2088 State Lease - 4 Copies 1000 Rio Brazos Rd., Azier, NM \$7410 Santa Fe, NM 87504-2088 Fee Lease - 3 Copie: District IV PO Box 2088, Santa Fc, NM \$7504-2088 AMENDED REPORT WELL LOCATION AND ACREAGE DEDICATION PLAT API Number ³ Pool Code * Pool Name 30-025-33863 Wildcat Delaware 96060 * Property Code Property Namo • Weil Namber 020478 Parsley ARA Federal 1 OCRID No. Operator Name Elevation Yates Petroleum Corporation 025575 3690' ¹⁰ Surface Location UL or lot no. Section Range Los Ida Ford from the North/South fine Township Feet from the East/West line County Ρ 26 23S 32E 760 South 990 East Lea ¹¹ Bottom Hole Location If Different From Surface UL or los 20. Section Township Range Lot Ida Feet from the North/South line Fort from the East/West line County " Dedicated Acres 15 Joint or Infill ¹⁴ Consolidation Code " Order No. 40 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 17 OPERATOR CERTIFICATION ۱6 I hereby certify that the information contained herein u true and complete to the best of my knowledge and belief Sugalare Tina Huerta Printed Name Operations Technician TIL 97 Date ¹⁸SURVEYOR CERTIFICATION I hereby certify that the well location shown on this play was platted 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. REFER TO ORIGINAL PLAT Date of Survey Signature and Seal of Professional Surveyor:

Form C-102

0

Certificate Number

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Cont Sers.	V. 4340	ot 20 Son Cabrar	64729	Strate Prod. 1 Continental	Prongham Mgait Corp. • Jian X V-732	"fed." (
78.5.15	16	Prowert Engr 020000 (ent 72.55%) 9-1-2005 95642 232.22 15 Trigg	(Guild) (Superior) (Singer Down-Ked	6 - 1 - 05 84728 0338344	rour <b>3</b>	U.S.
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larvard Pot. 5 Br. Serta Fr. En,ctol. Amoco,DTR 4-1-36 HOP 66153	Contraction for the second sec	Fanwell) Ener: Strata Prod.	(CoGrerge Cent, 72.25%) Perrwell Ener. 2-1-2006 2-1-2006	Hernweil Ener: DeCourgy Cent, 72,2596 Corroco, 12	JINA Provation Conoco	Over Wester Jr., etul Sento
		3.4.57 68163 436 <u>90</u>	46240 96239 675 <u>90</u> 688 33	86926 063228	048648	700110
الم من	Praweil Ener.		o ²	"Diamondtail- To 2200"		Amer. Quasa Brinninstoal Unarrow Disci 22.6 Mil.
		Penweil Ener 22 Schung Let 7155%	23 (01.725)	Penneti Ener 3 24 n L		Santo 20
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Mittermium Ener.	Yates Pet, . Su	Gulf 2307 Charren 033000	Pronghorn Mgmt. Conocc	Chevron (Arimal Ener. #85   piet 14 to 03937   (0533642	P.R.Bass 3-1-37 V-4308	varia Ait. dist V. anti 96 fB
H8P		(10) (Jender)	033503 1055364	Hent Tohos (LC)	₩¥# 1 ¹ 125 00	N.S.
Burlingten	16 24	32 15 (Gulf)	14	Conoco Chevron	18 Traver 1 18	Tennece 17:
Burlington; *** 11.1.96 66923			C.F. James (5)	0555647 91917		St-Lower DD 5230 DAB-HA-CD
		Exxon Mortife	iccolone-Fed"		Ture 1	<b>i</b> '

## YATES PETROLEUM CORPORATION APPLICATION FOR ADMINISTRATIVE APPROVAL DOWNHOLE COMMINGLING PARSLEY ARA FEDERAL #1 LEA COUNTY, NEW MEXICO

Bureau of Land Management 414 W. Taylor Hobbs, NM 88240

Burlington Resources P. O. Box 51810 Midland, TX 79710-1810 Perry & Perry, Inc. P. O. Box 371 Midland, TX 79702-0371

Estacado, Inc. P. O. Box 5587 Hobbs, NM 88241-5587

# NALCO Champion

## An Ecolab Company

September, 5 2014

Mr. Chad Letcher Nalco Company 12205 WCR 125 Odessa, Texas 79765

Analysis results:	3 Yates oil samples for Paraffin, Cloud & Pour,
Dated:	9/5/2014,
Lab No.	14C19407

	Delaware	Bonspin	3
Sample: Yates	Parsley	Hemlock 1H	Hemlock 2H
Gravity API @60	47.4	43.1	42.0
Wt% Paraffin	2.46	2.80	2.20
Wt% Sulfur	0.1947	0.1947	0.1947
Cloud Point °F	18	-26	-26
Pour Point °F	8	-14	-14

*Wt% Sulfur

read

at

lowest possible

measurable scale

Analyst Jim L Pritchard Lab Manager

Oil Analysis.

## NALCO Champion

An Ecolab Company

Company:

Yates Petroleum

Well Number:	Parsley	Sample Temp:	70
Lease:	Yates Petroleum	Date Sampled:	8/13/2014
Location:		Sampled by:	Chad Letcher
Date Run:	8/18/2014	Employee #:	
Lab Ref #:	14-aug-n76774	Analyzed by:	GR

		L.	Dissolved G	ases			
					Mg/L	Eq. Wt.	MEq/L
Hydrogen Sulfide	e (H2S)				.00	16.00	.00
Carbon Dioxide	(CO2)		NOT ANAL	YZED			
Dissolved Oxyge	n (02)		NOT ANAL	YZED			
			Cations				
Calcium	(Ca++)			16,3	85.52	20.10	815.20
Magnesium	(Mg++)			2,6	30.32	12.20	215.60
Sodium	(Na+)			65,6	65.06	23.00	2,855.00
Barium	(Ba++)		NOT ANAL	YZED			
Manganese	(Mn+)				16.82	27.50	.61
Strontium	(Sr++)		NOT ANAL	YZED			
,			Anions				
Hydroxyl	(OH-)				.00	17.00	.00
Carbonate	(CO3=)				.00	30.00	.00
BiCarbonate	(HCO3-	)			.00	61.10	.00
Sulfate	(SO4=)	•		1	80.00	48.80	3.69
Chloride	(CI-)				353.12	35.50	3,925.44
	( <b>-</b> )						
Total Iron	(Fe)			-	794.49	18.60	42.71
Total Dissolved S					)25.33		
Total Hardness a				•	748.11		
Conductivity MIC	CROMHOS/CM			23	31,400		
рH	4.860	•		Specific Grav	vity 60/60	) F.	1.156
CaSO4 Solubility	@ 80 F.	12.:	18MEq/L,	CaSO4 scale i	s unlikely	,	
CaCÓ3 Scale Index	r						
70.0	-5.346	100.0	-4.746	130.0	-3.22	6	
80.0	-5.216	110.0	-4.296	140.0	-3.22	.6	
90.0	-4.746	120.0	-4.296	150.0	-3.22	.6	

Nalco Company

Delaware Water tracypi

APR 23'97 13:49 FR BJ SERUICES, HOBBS 505 392 7307 TO 915057484585 P.22



## Water Analysis

. ....

Date: 23-Apr-97

Bone Springs Watersampel.

2708 West County Road, Hobbs NM 88240 Phone (505) 592-5556 Fax (505) 392-7307

Analyzed For

Company	Siet. Methes	1. Octative 1.	State
Yates Petroleum Co	p. Parsiey	Lea	New Mexico
Sample Source		Sample #	
Formation	Bonespring	Depth	
Specific Gravity	1.100	SG @ 60 °F	1.103
pН	6.49	Sulfides	
Temperature (°F)	76	Reducing Agents	·
Cations		•	
	Sodium (Calc) in Mg/L	62,510	
	Calcium in Mg/L	640	
	Magnesium in Mg/L	312	
Sol	uable fron (FE2) in Mg/L	630.0	
Anions			
	Chiorides in Mg/L	98,000	
r -	Sulfates in Mg/L.	412	
	Bicarbonates in Mg/L	830	
Total Hardness (as C	aCO3) in Mg/L		2,900
Total Dissolved Solid	ls (Calc) in Ng/L		163,333
Scaling Tendenci	95		
Calcium Carbonate			530,944 263,680
*Calcium Sulfate (Gy			
Below 500,000 Remo	nte / 500,000 - 10,000,000	Possible / Above 10,0	00,000 Probable
"This Calculation is only a treatment.	n approximation and is only valid	i before treatment of a well or	soveraí wooks after
Remarks Pota	ssium 700 Mg/L		
	. •		

Report #

23

## NALCO Champion

## An Ecolab Company

## Company:

## Yates Petroleum

Well Number:	Hemlock #1	Sample Temp:	70
Lease:	Yates Petroleum	Date Sampled:	7/29/2014
Location:		Sampled by:	Chad Letcher
Date Run:	8/4/2014	Employee #:	
Lab Ref #:	14-aug-n76580	Analyzed by:	GR

		1	Dissolved G	ases			
					Mg/L	Eq. Wt.	MEq/L
Hydrogen Sulfide					.00	16.00	.00
Carbon Dioxide	(CO2)		NOT ANAL				
Dissolved Oxyge	n (02)		NOT ANAL	YZED			
			Cations			`	
Calcium	(Ca++)			7,	115.40	20.10	354.00
Magnesium	(Mg++)				780.80	12.20	64.00
Sodium	(Na+)			51,	177.91	23.00	2,225.13
Barium	(Ba++)		NOT ANAL	YZED			
Manganese	(Mn+)		,		1.29	27.50	.05
Strontium	(Sr++)		NOT ANAL	YZED			
			Anions				
Hydroxyl	(OH-)				.00	17.00	.00
Carbonate	(CO3=)				.00	30.00	.00
BiCarbonate	(HCO3-)	)			73.32	61.10	1.20
Sulfate	(SO4=)				560.00	48.80	11.48
Chloride	(Cl-)			93,	402.63	35.50	2,631.06
Total Iron	(Fe)				10.45	18.60	.56
Total Dissolved	• •			153,	121.80		
Total Hardness a	as CaCO3			20,	989.78		
Conductivity MI	CROMHOS/CM			. 1	89,400		
рН	6.190			Specific Gra	vity 60/6	50 F.	1.106
CaSO4 Solubility	@ 80 F.	32.	69MEq/L,	CaSO4 scale	is unlikel	У	
CaCO3 Scale Index	×						
70.0	460	100.0	120	130.0	.4	70	
80.0	360	110.0	.180	140.0	.4	70	
90.0	120	120.0	.180	150.0	.8	20	

Nalco Company

Bone Sprugp Water Analym

## NALCO Champion

An Ecolab Company

Company:	

## Yates Petroleum

Well Number:	Hemlock #2		Sample Temp:	70	
Lease:	Yates Petroleum	•	Date Sampled:	7/29/2014	
Location:			Sampled by:	Chad Letcher	
Date Run:	8/4/2014		Employee #:		
Lab Ref #:	14-aug-n76583		Analyzed by:	GR	•

		L	Dissolved G	ases	N= //	F - 16/4	ME - /1	
Hydrogen Sulfide	e (H2S)				Mg/L .00	<b>Eq. Wt.</b> 16.00	<b>MEq/L</b> .00	
Carbon Dioxide	(CO2)		NOT ANAL	YZED		10.00		
Dissolved Oxyge			NOT ANAL					
			Cations					
Calcium	(Ca++)			-	98.28	20.10	422.80	
Magnesium	(Mg++)				31.84	12.20	27.20	
Sodium	(Na+)			51,0	16.69	23.00	2,218.12	
Barium	(Ba++)		NOT ANAL	YZED				
Manganese	(Mn+)				1.18	27.50	.04	
Strontium	(Sr++)		NOT ANAL	YZED				
		•	Anions					
Hydroxyl	(OH-)				.00	17.00	.00	
Carbonate	(CO3=)		·		.00	30.00	.00	
BiCarbonate	(HCO3-	)			73.32	61.10	1.20	
Sulfate	(SO4=)			Ľ	520.00	48.80	10.66	
Chloride	(Cl-)			94,3	303.62	35.50	2,656.44	
Total Iron	(Fe)				2.53	18.60	.14	
Total Dissolved	Solids			154,	747.46			
Total Hardness a	as CaCO3			22,0	506.24			
Conductivity MIC	CROMHOS/CM			19	92,100			
рН	6.200			Specific Gra	vity 60/6	0 F.	1.108	
CaSO4 Solubility	@ 80 F.	27.	88MEq/L,	CaSO4 scale	is unlikel	у		
CaCO3 Scale Index	(							
70.0	373	100.0	033	130.0	.5	57		
80.0	273	110.0	.267	140.0	.5	57	•	
90.0	033	120.0	.267	150.0	.9	07		

Nalco Company

Bone Spilles Water fralips Wildcat Measurement Service P.O.Box 1836 416 East Main Street Artesia, NM 88211-1836 8/22/2014 8:19 AM Phone: 575-746-3481 888-421-9453 Fax: 575-748-9852 dnorman@wildcatms.com

#### GAS ANALYSIS REPORT

Analysis For: YATES PETROLEUM Field Name: Well Name: PARSLEY "ARA" FEDERAL #1 Station Number: WELLHEAD Purpose: SPOT Sample Deg. F: 60 Volume/Day: Formation: Line PSIG: 162.4 Line PSIA: 175.6

		GAS CO	MPONENTS
		MOL%	GPM
Oxygen	O2:	0.0000	
Carbon Dioxide	C02:	2.3123	
Nitrogen	N2:	2.9657	
Hydrogen Sulfid	e H2S:	0.0000	
Methane	C1:	70.0765	
Ethane	C2:	14.2162	3.8010
Propane	C3:	7.0807	1.9502
Iso-Butane	IC4:	0.7259	0.2375
Nor-Butane	NC4:	1.5593	0.4915
Iso-Pentane	IC5:	0.2961	0.1083
Nor-Pentanes	NC5:	0.2737	0.0992
Hexanes Plus	C6+:	0.4936	0.2146
Totals		100.0000	6.9022

Run No: 2140821-01 Date Run: 08/21/2014 Date Sampled: 08/21/2014 Producer: YATES PETROLEUM County: LEA State: NM Sampled By: MIKE WEST Atmos Deg. F: 85

Pressure Base: 14.730 Real BTU Dry: 1268.020 Real BTU Wet: 1246.007

Calc. Ideal Gravity: 0.7833 Calc. Real Gravity: 0.7861 Field Gravity: Standard Pressure: 14.696 Ideal BTU Dry: 1260.129 Ideal BTU Wet: 1238.203 Z Factor: 0.9961 Average Mol Weight: 22.6867 Average CuFt/Gal: 54.3978 26 lb. Product: 0.6471 Ethane+ GPM: 6.9022 Propane+ GPM: 3.1013 Butane+ GPM: 1.1510 Pentane+ GPM: 0.4221

Remarks: H2S IN GAS STREAM ON LOCATION: NONE DETECTED Analysis By: Don Norman

Delaware Gas Analysis

Wildcat Measurement Service P.O.Box 1836 416 East Main Street Artesia, NM 88211-1836 8/6/2013 9:39 AM Phone: 575-746-3481 888-421-9453 Fax: 575-748-9852 dnorman@wildcatms.com

#### GAS ANALYSIS REPORT

Analysis For: YATES PETROLEUM CORPORATION Field Name: DCP Well Name: HEMLOCK "BSH" STATE #1H Station Number: 37997 Purpose: MONTHLY Sample Deg. F: 93.6 Volume/Day: Formation: Line PSIG: 114.4 Line PSIA: 127.6

		GAS CO	MPONENTS
		MOL%	GPM
Oxygen	O2:	0.0000	
Carbon Dioxide	C02:	0.1739	
Nitrogen	N2:	1.8066	
Hydrogen Sulfide	e H2S:	0.0000	
Methane	C1:	71.7819	
Ethane	C2:	14.9416	3.9949
Propane	C3:	7.1512	1.9697
Iso-Butane	IC4:	0.7918	0.2590
Nor-Butane	NC4:	1.8540	0.5843
Iso-Pentane	IC5:	0.3502	0.1280
Nor-Pentanes	NC5:	0.3551	0.1287
Hexanes Plus	C6+:	0.7937	0.3451
Totals		100.0000	7.4097

Run No: 2130720-31 Date Run: 07/20/2013 Date Sampled: 07/02/2013 Producer: YATES PETROLEUM County: LEA State: NM Sampled By: CRAIG SUTHERLAND Atmos Deg. F: 89

Pressure Base: 14.730 Real BTU Dry: 1333.114 Real BTU Wet: 1309.972

Calc. Ideal Gravity: 0.7779 Calc. Real Gravity: 0.7808 Field Gravity: Standard Pressure: 14.696 Ideal BTU Dry: 1324.538 Ideal BTU Wet: 1301.491 Z Factor: 0.9959 Average Mol Weight: 22.5307 Average CuFt/Gal: 53.6119 26 lb. Product: 0.9389 Ethane+ GPM: 7.4097 Propane+ GPM: 3.4148 Butane+ GPM: 1.4452 Pentane+ GPM: 0.6018

Remarks: H2S IN GAS STREAM ON LOCATION: NONE DETECTED Analysis By: Don Norman

Bonesprings gas analysis



## Parsley ARA Fed #1

dist 6/16/14

760' FSL & 990' FEL, Sec. 26-T23S-R32E Lea County, NM API No. 30-025-33863

#### Workover Procedure

Executive summary: Pull RBP currently above Bone Springs and commingle Delaware and Bone Spring production. Approved Commingle Order DHC-1639.

Casing: 5.5" 15.5 & 17# J-55, L-80 & N-80 to 10,325' Burst Pressure : 4810 psi * 80% = 3,848 psi Collapse Pressure: 4040 psi * 80% = 3,232 psi

Tubing : 2.875" 6.5# J-55 Burst Pressure : 7260 psi * 80% = 5,808 psi Collapse Pressure: 7680 psi * 80% = 6,144 psi

Current perfs above RBP: Delware: 8,521'-8,550' (14). Current perfs below RBP: Bone Spring: 8971'-87' (34), 10,027'-75' (49)

- 1. MIRU WSU, NU BOP Rig up all safety equipment as necessary. POOH with all production equipment, rods, pump and production string. When releasing the TAC @ 8,425', go in and tag top of fill.
- 2. If fill, TIH w bit and tubing to clean out fill. Circulate clean. If not much fill, may be able to clean it out with the releasing tool.
- 3. TIH and release RBP @ 8,885' and POOH.
- 4. TIH with tubing anchor and seating sipple as per Production Departments specifications. Set anchor and hang the tubing off. TIH with pump and rods. Turn the well over to the Production Department

Date 6/13/14 Juf 6/13/14 Area Engineer Margrethe Hotter

FIELD AREA: TRIJTE DRAW DELAWARE WELL'NAME: PARSLEY ARA FEO #1 LOCATION: 760'FSL + 990'FEL SEC 26 TZ35 R32E GL: 3690 ' ZERO: 13 . ' AGL: ' KB: 3703' ORIG. DRLG./COMPL. DATE: ___ CASING PROGRAM: SIZE/WT./GR./CONN. DEPTH SET COMMENTS: 11314" 42# H-40 Src 630 4835 1872 4983 8,394 8-18" 32" M-951 J-55 51 0-10 32 M-151355 512 17 L-80 LTC 513 17 1.55 LTC 513 17 1.55 LTC 513 17 N-80 LTC 513 17 N-80 LTC 2 18 L-80 2.4 EVE 143/4 19,325 11 3/4" CG30 CMT-600 SKS, CIEC  $\Pi$ BEFORE 848"e 4835' CNT-1600 SKS, CIRC DST #1 - 5006 - 5100 7%" GAS TO SURFACE - 6 MIN. 94"F - 2214 PS) DP - 90" #5" all + 120" RH MUO 2727" FOOMAYING WATCH TOC 4200 ± SE - . SYFRICAS +2300 CLWE W. BRUSHY CANYON ACTIZE- 2000 and 10 90 IC HCL 4 25 BS BRUSHY CANYON ACTIZE- 2000 and 10 90 IC HCL 4 25 BS BSZI-BSSO (14) FRILE-16, 500 gal 40,000 10.5 BRAI 2318-520 PSI BSZI-BSSO (14) FRILE-16, 500 gal 40,000 10.5 BRAI 2318-520 PSI CURENT PHODUCTION - 5 BO, 65 BW RBPC B8B5 AVALON B971-B9B7 (34) ACIDILE-1500 gal ISIA-1200 PSI FRAC-60,000 gal 35" 139,000 H 20100 Olland + 34000 H 20/40 SULLA DE ISIA-2000 ASI 36 BAN & 1900 PSI. 10,027-10,075 (49) 2300 CALLONS 1020 HEL 10,282 -51/2" @ 10,325 CMT- 550 SKS 4-22-99 8D REVISED: 4/97 M KEITH - SKETCH NOT TO SCALE -

-----HELL'HAHE: PARSLEY ARA FEO #1 FIELD AREA: TRUTE DRAW DelaWARE /BONESPRINGS LOCATION: 760'FSL 1990'FEL SEC 26 T235 R32E GL: 3690 ' ZERO: 13 . ' AGL: ____' KB: 3703' ORIG. DRLG./COMPL. DATE: CASING PROGRAM: SIZE/WT./GR./CONN. DEPTH SET COMMENTS: 11319" 42# H-40 STC 630' 4825 1872 4983 8,394 M-9513-55 ST 1-80 1-80 LTC N-10 LTC 1-55 LTC 79 N-80 10,325 EVE 20.6.6 11 2/4" 630 CMT-600 SKS, CIEC  $\Pi$ 848'e 4835' AFTER CMT-1600 SKS, CIRC DST #1 - 5006-5100 7% GAS TO SURFACE - 6 MIN. 94°F - 2214 PSI DP- 90' 45'01 + 120' R4 MVO 2727' FOOMATIN HATTA TOC 4200 ± SR - SH HITCAS +2300 CC WA ( ... BRUSHY CAMYON ANDIZE- 7000 nol, 10% IC HICH 4 25 BS = B521-B550 (14) FRIL-16,500 g.1 40,000 1 10.5 BPM JSIP-520 PSI = B521-B550 (14) CUREDIT PHODUCTION - 5 BO, 65 BW AVALON 8971-8987 (34) ACLOINE-1500 gal ISIP-1200 PSI Frac-60,000 gal 35t 139,000 + Julio Ollune + 39800 H 20/10 SURE DE ISIP-2000 PSI 36 BPA & 1900 PSI 10,027-10,075 (49) 2300 GALLONG 1020 HEL 10,282' 51/2" C 10,325, CMT- 550 3KS 4-22-99 8D REVISED: 4/97 M KEITH - SKETCH NOT TO SCALE -

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## **Conditions of Approval**

## Sundries dated 6/13/14 and 9/15/2014 Yates Petroleum Corporation Parsley ARA Fed 1 API 3002533863, T23S-R32E, Sec 26

December 8, 2014

- 1. DHC work approved as written
- 2. Subject to like approval by the New Mexico Oil Conservation Division.
- 3. Surface disturbance beyond the existing pad must have prior approval.
- 4. A closed loop system is required. The operator shall properly dispose of drilling/circulating contents at an authorized disposal site. Tanks are required for all operations, no excavated pits.
- 5. Functional  $H_2S$  monitoring equipment shall be on location.
- 6. A minimum of 3000 (3M) BOPE shall be used. All blowout preventer (BOP) and related equipment (BOPE) shall comply with reasonable well control requirements. A two ram system with a blind ram and a pipe ram designed for the size of the work string shall be adequate. Tapered work strings will require an additional pipe ram. The manifold shall comply with Onshore Oil and Gas Order #2 Attachment I (3M) Diagrams of Choke Manifold Equipment). The accumulator system shall have an immediately available power source to close the rams and retain 200 psi above pre-charge. The pre-charge test shall follow requirements in Onshore Order #2.
- 7. All waste (i.e. trash, salts, chemicals, sewage, gray water, etc.) created as a result of work over operations shall be safely contained and disposed of properly at a waste disposal facility. No waste material or fluid shall be disposed of on the well location or surrounding area. Porto-johns and trash containers will be on-location during fracturing operations or any other crew-intensive operations.
- 8. File intermediate **subsequent sundry** Form 3160-5 within 30 days of any interrupted workover procedures and a complete workover subsequent sundry.
- 9. Submit the BLM Form 3160-4 **Recompletion Report** within 30 days of the date all BLM approved procedures are complete.
- 10. Workover approval is good for 90 days (completion to be within 90 days of approval). A legitimate request is necessary for extension of that date.

#### EGF 120814