

DATE IN 03/12/2013	SUSPENSE	ENGINEER PRG	LOGGED IN 03/12/2013	TYPE DHC	APP NO. PRG1307152373
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ABOVE THIS LINE FOR DIVISION USE ONLY

NEW MEXICO OIL CONSERVATION DIVISION
- Engineering Bureau -
1220 South St. Francis Drive, Santa Fe, NM 87505



30-025-36689
White Owl #1
Apache Corp.

ADMINISTRATIVE APPLICATION CHECKLIST

THIS CHECKLIST IS MANDATORY FOR ALL ADMINISTRATIVE APPLICATIONS FOR EXCEPTIONS TO DIVISION RULES AND REGULATIONS WHICH REQUIRE PROCESSING AT THE DIVISION LEVEL IN SANTA FE

Application Acronyms:

- [NSL-Non-Standard Location] [NSP-Non-Standard Proration Unit] [SD-Simultaneous Dedication]
- [DHC-Downhole Commingling] [CTB-Lease Commingling] [PLC-Pool/Lease Commingling]
- [PC-Pool Commingling] [OLS - Off-Lease Storage] [OLM-Off-Lease Measurement]
- [WFX-Waterflood Expansion] [PMX-Pressure Maintenance Expansion]
- [SWD-Salt Water Disposal] [IPI-Injection Pressure Increase]
- [EOR-Qualified Enhanced Oil Recovery Certification] [PPR-Positive Production Response]

- [1] **TYPE OF APPLICATION** - Check Those Which Apply for [A]
- [A] Location - Spacing Unit - Simultaneous Dedication
 NSL NSP SD
- Check One Only for [B] or [C]
- [B] Commingling - Storage - Measurement
 DHC CTB PLC PC OLS OLM
- [C] Injection - Disposal - Pressure Increase - Enhanced Oil Recovery
 WFX PMX SWD IPI EOR PPR
- [D] Other: Specify _____
- [2] **NOTIFICATION REQUIRED TO:** - Check Those Which Apply, or Does Not Apply
- [A] Working, Royalty or Overriding Royalty Interest Owners
- [B] Offset Operators, Leaseholders or Surface Owner
- [C] Application is One Which Requires Published Legal Notice
- [D] Notification and/or Concurrent Approval by BLM or SLO
U.S. Bureau of Land Management - Commissioner of Public Lands, State Land Office
- [E] For all of the above, Proof of Notification or Publication is Attached, and/or,
- [F] Waivers are Attached

[3] **SUBMIT ACCURATE AND COMPLETE INFORMATION REQUIRED TO PROCESS THE TYPE OF APPLICATION INDICATED ABOVE.**

[4] **CERTIFICATION:** I hereby certify that the information submitted with this application for administrative approval is **accurate and complete** to the best of my knowledge. I also understand that **no action** will be taken on this application until the required information and notifications are submitted to the Division.

Note: Statement must be completed by an individual with managerial and/or supervisory capacity.

REESA HOLLAND Print or Type Name	<u>Reesa Holland</u> Signature	SR STAFF REG TECH Title	3/7/2013 Date
WHITE OWL #1	<u>Reesa.Holland@apachecorp.com</u> e-mail Address.		

District I
1625 N. French Drive, Hobbs, NM 88240

District II
1301 W. Grand Avenue, Artesia, NM 88210

District III
1000 Rio Brazos Road, Aztec, NM 87410

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

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-107A
Revised June 10, 2003

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, New Mexico 87505

APPLICATION TYPE
 Single Well
 Establish Pre-Approved Pools
EXISTING WELLBORE
 Yes No

APPLICATION FOR DOWNHOLE COMMINGLING

Apache Corporation 303 Veterans Airpark Lane Suite 3000 Midland TX 79705
Operator Address

White Owl 1 D 2 20S 38E Lea
Lease Well No. Unit Letter-Section-Township-Range County

OGRID No. 873 Property Code 303233 API No. 30-025-36689 Lease Type: Federal State Fee

DATA ELEMENT	UPPER ZONE	INTERMEDIATE ZONE	LOWER ZONE
Pool Name	House; Blinebry	House; Tubb	House; Drinkard
Pool Code	33230	78760	33250
Top and Bottom of Pay Section (Perforated or Open-Hole Interval)	5982'-6139'	6802'-6890'	6986'-7106'
Method of Production (Flowing or Artificial Lift)	Artificial Lift	Artificial Lift	Artificial Lift
Bottomhole Pressure (Note: Pressure data will not be required if the bottom perforation in the lower zone is within 150% of the depth of the top perforation in the upper zone)			
Oil Gravity or Gas BTU (Degree API or Gas BTU)	40.1	40.1	40.1
Producing, Shut-In or New Zone	Producing	Producing	Producing
Date and Oil/Gas/Water Rates of Last Production. (Note: For new zones with no production history, applicant shall be required to attach production estimates and supporting data.)	Date: Rates: SEE ATTACHED	Date: Rates: SEE ATTACHED	Date: Rates: SEE ATTACHED
Fixed Allocation Percentage (Note: If allocation is based upon something other than current or past production, supporting data or explanation will be required.)	Oil 15 % Gas 21 %	Oil 10 % Gas 23 %	Oil 50 % Gas 45 %

ADDITIONAL DATA

Are all working, royalty and overriding royalty interests identical in all commingled zones? Yes No
If not, have all working, royalty and overriding royalty interest owners been notified by certified mail? Yes No

Are all produced fluids from all commingled zones compatible with each other? Yes No

Will commingling decrease the value of production? Yes No

If this well is on, or communitized with, state or federal lands, has either the Commissioner of Public Lands or the United States Bureau of Land Management been notified in writing of this application? Yes No

NMOCD Reference Case No. applicable to this well: _____

Attachments:

- C-102 for each zone to be commingled showing its spacing unit and acreage dedication.
- Production curve for each zone for at least one year. (If not available, attach explanation.)
- For zones with no production history, estimated production rates and supporting data.
- Data to support allocation method or formula.
- Notification list of working, royalty and overriding royalty interests for uncommon interest cases.
- Any additional statements, data or documents required to support commingling.

PRE-APPROVED POOLS

If application is to establish Pre-Approved Pools, the following additional information will be required:

- List of other orders approving downhole commingling within the proposed Pre-Approved Pools
- List of all operators within the proposed Pre-Approved Pools
- Proof that all operators within the proposed Pre-Approved Pools were provided notice of this application.
- Bottomhole pressure data.

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE Reesa Holland TITLE Sr. Staff Regulatory Tech DATE 3/6/2013

TYPE OR PRINT NAME Reesa Holland TELEPHONE NO. (432) 818-1062

E-MAIL ADDRESS Reesa.Holland@apachecorp.com

District I
1625 N. French Drive, Hobbs, NM 88240

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-107A
Revised June 10, 2003

District II
1301 W. Grand Avenue, Artesia, NM 88210

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, New Mexico 87505

APPLICATION TYPE
 Single Well
 Establish Pre-Approved Pools
EXISTING WELLBORE
 Yes No

District III
1000 Rio Brazos Road, Aztec, NM 87410

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

APPLICATION FOR DOWNHOLE COMMINGLING

Apache Corporation 303 Veterans Airpark Lane Suite 3000 Midland TX 79705
Operator Address
White Owl 1 D 2 20S 38E Lea
Lease Well No. Unit Letter-Section-Township-Range County
OGRID No. 873 Property Code 303233 API No. 30-025-36689 Lease Type: Federal State Fee

DATA ELEMENT	UPPER ZONE	INTERMEDIATE ZONE	LOWER ZONE
Pool Name	House; Abo		
Pool Code	33210		
Top and Bottom of Pay Section (Perforated or Open-Hole Interval)	7425'-7638'		
Method of Production (Flowing or Artificial Lift)	Artificial Lift		
Bottomhole Pressure (Note: Pressure data will not be required if the bottom perforation in the lower zone is within 150% of the depth of the top perforation in the upper zone)			
Oil Gravity or Gas BTU (Degree API or Gas BTU)	40.1		
Producing, Shut-In or New Zone	New Zone		
Date and Oil/Gas/Water Rates of Last Production. (Note: For new zones with no production history, applicant shall be required to attach production estimates and supporting data.)	Date: Rates: SEE ATTACHED	Date: Rates:	Date: Rates:
Fixed Allocation Percentage (Note: If allocation is based upon something other than current or past production, supporting data or explanation will be required.)	Oil 25 % Gas 11 %	Oil % Gas %	Oil % Gas %

ADDITIONAL DATA

Are all working, royalty and overriding royalty interests identical in all commingled zones? Yes No
If not, have all working, royalty and overriding royalty interest owners been notified by certified mail? Yes No
Are all produced fluids from all commingled zones compatible with each other? Yes No
Will commingling decrease the value of production? Yes No
If this well is on, or communitized with, state or federal lands, has either the Commissioner of Public Lands or the United States Bureau of Land Management been notified in writing of this application? Yes No
NMOCD Reference Case No. applicable to this well: _____

Attachments:

- C-102 for each zone to be commingled showing its spacing unit and acreage dedication.
- Production curve for each zone for at least one year. (If not available, attach explanation.)
- For zones with no production history, estimated production rates and supporting data.
- Data to support allocation method or formula.
- Notification list of working, royalty and overriding royalty interests for uncommon interest cases.
- Any additional statements, data or documents required to support commingling.

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If application is to establish Pre-Approved Pools, the following additional information will be required:

- List of other orders approving downhole commingling within the proposed Pre-Approved Pools
- List of all operators within the proposed Pre-Approved Pools
- Proof that all operators within the proposed Pre-Approved Pools were provided notice of this application.
- Bottomhole pressure data.

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE Reesa Holland TITLE Sr. Staff Regulatory Tech DATE 3/6/2013
TYPE OR PRINT NAME Reesa Holland TELEPHONE NO. (432) 818-1062
E-MAIL ADDRESS Reesa.Holland@apachecorp.com

Apache Corporation – White Owl #1

Wellbore Diagram – Current

Date : 2/15/2012

API: 30-025-36689

Surface Location

R. Taylor



582' FNL & 330' FWL,
Lot D Sec 2, T20S, R38E, Lea County, NM

Surface Casing

13-3/8" 48# @ 127' w/ 200 sxs to surface

Intermediate Casing

8-5/8" 24# J-55 @ 1636' w/ 725 sxs

TAC @ 5938'
SN @ 7105'

9/12: Acidize w/ 1500 gal 15% NEFE HCL w/ 110 gal Super A-SOL across all perms

9/04: Perf Blinebry @ 5982-86; 6042-47; 6068-84; 6134-39 w/ 4 jspf. Acidized w/ 4000 gal 20% AS290. Frac'd w/ 60k gal gelled w/ 807 SCF N2 w/ 90k# 20/40 snd & 30k# 20/40 PropNet

9/04: Perf Tubb @ 6802-08; 6818-20; 6827-30; 6835-38; 6843-49; 6858-60; 6885-90 w/ 4 jspf. Acidized w/ 3000 gal 20% AS290. Frac'd w/ 30k gal 2% KCL w/ 52k# 20/40 snd.

8/04: Perf Drinkard @ 6986-94; 7062-70; 7082-86; 7100-06 w/ 4 jspf. Acidized w/ 3000 gal 15% NEFE. Frac'd w/ 42k gal 30Q 15 & 20% SXE w/ 20k# 20/40 snd.

8/04: CCL/CBL would not fall past 7557'

Production Casing

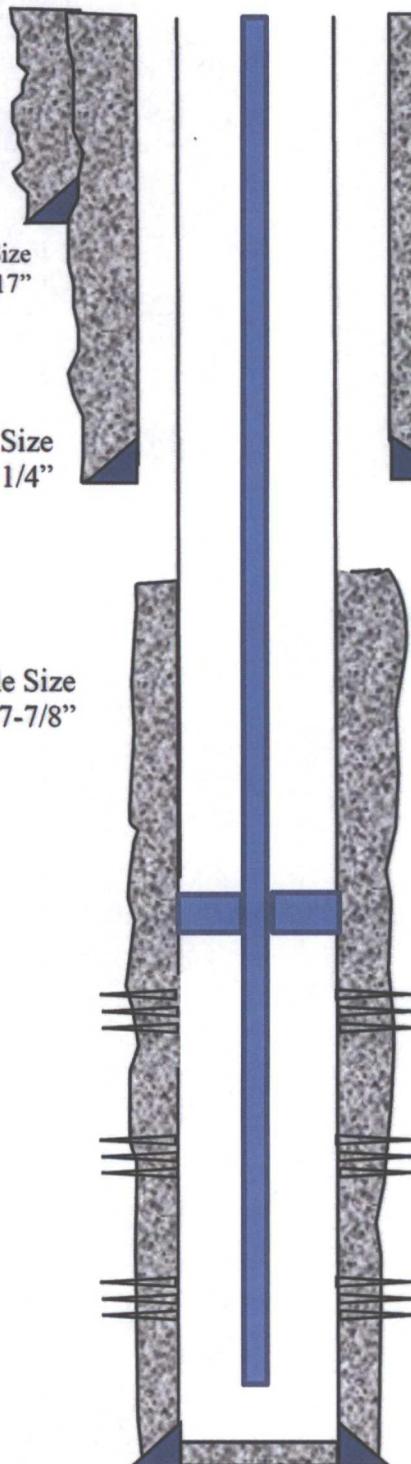
5-1/2" 17# N-80 @ 7741' w/ 1710 sxs to surface

GL=3573'
KB=3590'
Spud:6/16/04

Hole Size
=17"

Hole Size
=12 1/4"

Hole Size
=7-7/8"



PBTD = 7,557'
MD = 7,741'

Apache Corporation – White Owl #1

Wellbore Diagram – Proposed

Date : 2/15/2012

API: 30-025-36689

R. Taylor

Surface Location

582' FNL & 330' FWL,
Lot D Sec 2, T20S, R38E, Lea County, NM



Surface Casing

13-3/8" 48# @ 127' w/ 200 sxs to surface

Intermediate Casing

8-5/8" 24# J-55 @ 1636' w/ 725 sxs

TAC @ TBD'

SN @ TBD'

9/12: Acidize w/ 1500 gal 15% NEFE HCL w/ 110 gal Super A-SOL across all perms

9/04: Perf Blinebry @ 5982-86; 6042-47; 6068-84; 6134-39 w/ 4 jspf. Acidized w/ 4000 gal 20% AS290. Frac'd w/ 60k gal gelled w/ 807 SCF N2 w/ 90k# 20/40 snd & 30k# 20/40 PropNet

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8/04: Perf Drinkard @ 6986-94; 7062-70; 7082-86; 7100-06 w/ 4 jspf. Acidized w/ 3000 gal 15% NEFE. Frac'd w/ 42k gal 30Q 15 & 20% SXE w/ 20k# 20/40 snd.

8/04: CCL/CBL would not fall past 7557'

TBD: Perf Abo @ 7425-29; 7457-64; 7472-74; 7492-7501; 7523-28; 7533-47; 7560-68; 7590-7604; 7612-16; 7632-38 w/ 2 jspf. (146 holes). Acidize w/ 5,000 gal 15% NEFE

Production Casing

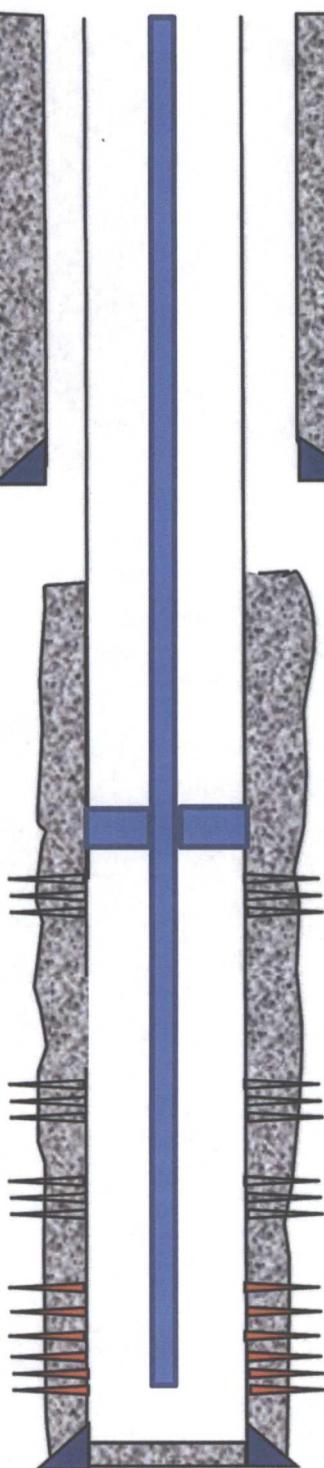
5-1/2" 17# N-80 @ 7741' w/ 1710 sxs to surface

GL=3573'
KB=3590'
Spud:6/16/04

Hole Size
=17"

Hole Size
=12 1/4"

Hole Size
=7-7/8"



PBTD = 7,557'
MD = 7,741'

Order Number

496

API Number

30025-34689

Operator

Apache Corp

County

Lee

Order Date

7-3-2012

Well Name

White Owl

Number

1

Location:

D

2

205

38E

UL

Sec

T (+Dir)

R (+Dir)

Oil %

18

Gas %

21

Pool 1

33230

House; Blinbery

Pool 2

78760

House; Tubb

12

26

Pool 3

33250

House; Drinkard

70

53

Pool 4

Comments:

Posted in RBDMS 7-3-2012 CHM

Submit 3 Copies To Appropriate District Office
 District I
 1625 N. French Dr., Hobbs, NM 88249
 District II
 1301 W. Grand Ave., Artesia, NM 88210
 District III
 1000 Rio Brazos Rd., Aztec, NM 87602
 District IV
 1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
 Energy, Minerals and Natural Resources

Form C-103
 June 19, 2008

OIL CONSERVATION DIVISION
 1220 South St. Francis Dr.
 Santa Fe, NM 87505

HOBS OCD
 JUL 02 2012

SUNDRY NOTICES AND REPORTS ON WELLS (DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS) 1. Type of Well: <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other:		WELL API NO. 30-025-36689
2. Name of Operator Apache Corporation		5. Indicate Type of Lease STATE <input type="checkbox"/> FEE <input checked="" type="checkbox"/>
3. Address of Operator 303 Veterans Airpark Lane, Suite 3000 Midland, TX 79705		6. State Oil & Gas Lease No.
4. Well Location Unit Letter D : 582 feet from the North line and 330 feet from the West line Section 2 Township 20S Range 38E NMPM County Lea		7. Lease Name or Unit Agreement Name White Owl
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 3573' GL		8. Well Number 001
		9. OGRID Number 873
		10. Pool name or Wildcat House;Blinebry/House;Tubb/House;Drinkard

12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO: PERFORM REMEDIAL WORK <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> TEMPORARILY ABANDON <input type="checkbox"/> CHANGE PLANS <input type="checkbox"/> PULL OR ALTER CASING <input type="checkbox"/> MULTIPLE COMPL <input type="checkbox"/> DOWNHOLE COMMINGLE <input checked="" type="checkbox"/>		SUBSEQUENT REPORT OF: REMEDIAL WORK <input type="checkbox"/> ALTERING CASING <input type="checkbox"/> COMMENCE DRILLING OPNS. <input type="checkbox"/> P AND A <input type="checkbox"/> CASING/CEMENT JOB <input type="checkbox"/>	
OTHER: <input type="checkbox"/>		OTHER: <input type="checkbox"/>	

13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 1103. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

Apache would like to DHC the following pools: **Per R-11363**

Pool Names:	Perforations:
<input checked="" type="checkbox"/> House; Blinebry 33230	Blinebry 5982'-6139'
<input checked="" type="checkbox"/> House; Tubb 78760	Tubb 6802'-6890'
<input checked="" type="checkbox"/> House; Drinkard 33250	Drinkard 6986'-7106'

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

	OIL	GAS	WATER
Blinebry	18%	21%	36%
Tubb	12%	26%	18%
Drinkard	70%	53%	46%

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

Spud Date: 09/01/2004 Rig Release Date: 07/12/2004

DHC-HOB-496

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE Reesa Holland TITLE Sr. Staff Engr Tech DATE 06/29/2012

Type or print name Reesa Holland E-mail address: Reesa.Holland@apachecorp.com PHONE: 432/818-1062

For State Use Only

APPROVED BY: [Signature] TITLE PETROLEUM ENGINEER DATE JUL 03 2012
 Conditions of Approval (if any)

JUL 03 2012



June 29, 2012

**Mr. Paul Kautz
New Mexico Oil Conservation Division
1625 N French Drive
Hobbs, New Mexico 88240**

**RE: Application for Exception to Rule 303-C – Downhole Commingling
White Owl #1
Unit D, Section 2, T20S, R38E
House; Blinebry, House; Tubb & House; Drinkard
Lea County, New Mexico**

Dear Mr. Kautz,

Enclosed please find form C-103 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.

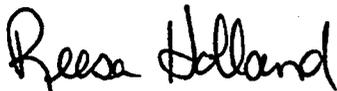
The allocation method used for this well was determined by analyzing the cumulative oil, gas and water production in a nine section area of review surrounding this well. Supporting documentation is shown on the attached spreadsheet. Production for active and inactive wells was grouped by pool in the 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.

If you need additional information or have any questions, please give me a call at (432) 818-1062.

Sincerely,

A handwritten signature in black ink that reads "Reesa Holland". The signature is written in a cursive, flowing style.

**Reesa Holland
Sr Staff Engr Technician**

Lease Name	Well Number	10DIGIT API	Location	Cum Oil (BBL)			Cum Gas (MCF)			Cum Water (BBL)		
				Blnebr	Tubb	Drnkard	Blnebr	Tubb	Drnkard	Blnebr	Tubb	Drnkard
L D JONES	1	3002507722	1H 20S 38E SE NE	3476			186180			5043		
PHILLIPS HOUSE STATE	1	3002507725	2O 20S 38E			101875			481126			25440
STATE U	1	3002507727	2P 20S 38E			157611			97687			184324
ARNOLD A	1	3002507781	11F 20S 38E	1083	29528	670	3502	1366318		7287	5113	
HOUSE B	1	3002507764	11P 20S 38E		8855			118752				
BLANKENSHIP	1	3002507768	12E 20S 38E			64657			16638			7010
BLANKENSHIP	2	3002507767	12L 20S 38E	3906	20	134312	9570	42	1177187	2664	114	37126
BLANKENSHIP	3	3002507768	12M 20S 38E NE SW	5854	8772	39616	33275	47735	2435461	5515	15611	22235
CONE A	1	3002507770	12F 20S 38E		17024	208476		66408	237771		56554	84069
CONE B	1	3002507771	12J 20S 38E			239833			591551			69199
HESTER 12	3	3002507772	12O 20S 38E			150171			853402			32702
HESTER 12	2	3002507773	12N 20S 38E			82932			540453			17896
HESTER 12	1	3002512549	12K 20S 38E			97448			457760			16669
HOWSE C	1	3002522165	11H 20S 38E SE NE			26370			143078			6340
CONE B	2	3002525921	12G 20S 38E			398			86772			1460
WERTA FEDERAL	1	3002527696	35O 19S 38E SW SE	42930	14640	11778	211449	10262	24012	51813	10929	29470
L & M	1	3002528287	2L 20S 38E C S2 SW	1012	9634	250	9593	130756	1129	1344	579	392
FRANCES EVELYN	1	3002532163	35N 19S 38E SE SW	5470			61072			35070		
PICAYUNE	1	3002534734	11J 20S 38E C NW SE		14361	26692	1421	69324	382613			17895
DRESSSEN	1	3002534657	1G 20S 38E C SW NE	2199			7175			23039		
HOWSER	1	3002534970	1J 20S 38E C NW SE	1371			28097			35934		
MERIT	1	3002535240	11O 20S 38E E2 SW SE			9513		597060			7380	
REDTAG	1	3002535333	2J 20S 38E NW NW SE	27129	4037	1133	73901	9920	9535	4764	2495	3351
MERIT II	1	3002535448	11G 20S 38E C SW NE	3456	16980	21816	15627	28441	151799		11887	19464
DUKES	1	3002535614	11K 20S 38E E2 NE SW		7818	32784		38544	139480		8390	26341
REDTAG	2	3002535630	2K 20S 38E NE NE SW	15566			870166			2596		
DIXIE QUEEN	1	3002536421	11P 20S 38E S2 SE SE		7394			517209				
WHITE OWL	1	3002536689	2 20S 38E NW NW NW	32868			122087			9450		
HESTER 12	6	3002536795	12N 20S 38E	26810	8095	12000	321996	182364	63501	28536	6751	5480
HESTER 12	4	3002536800	12O 20S 38E SW SW SE	15686	5185	4610	261423	122085	110725	42191		2688
FLOW BOY FEDERAL	1	3002536962	35J 19S 38E NW NW SE	21983			71622					
ROUND-UP	1	3002537100	35H 19S 38E SW SE NE			7181			13557			
SALEM	1	3002537316	3A 20S 38E SE NE NE	2954		8592	8535		25309	7032		3185
HESTER 12	8	3002538076	12K 20S 38E SW NE SW	12938	3926	3762	124569	88335	56020	9995	11277	4360
HESTER 12	5	3002538211	12P 20S 38E NW SE SE	18690	5669	11153	177646	79110	77564	38857	6211	481
HESTER 12	7	3002538369	12N 20S 38E NE SE SW	6328	7241	3148	67135	53793	32197	16097	8422	10379
MELOT	1	3002538370	11C 20S 38E SW NE NW	4895	6293	2792	45105	35080	20051	23409	22744	20737
BLANKENSHIP	4	3002538397	12L 20S 38E NE NW SW	2908	3129	6389	13057	21937	22245	12146	5023	3768
BLANKENSHIP	5	3002538399	12M 20S 38E SW SW SW	12393	4622	5787	42451	84653	254996	20446	4543	3409
BLANKENSHIP	6	3002538400	12L 20S 38E SW NW SW	6755	5428	1218	30689	1784	63545	8849	648	12080
RHINO	2	3002538484	11N 20S 38E SE NE SW	9305	2576	5152	26295	17884				
MAGNOLIA	1	3002538660	11E 20S 38E NE SW NW	5510	6349	3981	80835	15727	16867	16978	2618	33554
DIXIE QUEEN	2	3002538661	11P 20S 38E NE SE SE	11334	3090	5222	58416	26604	52023			
HESTER 12	10	3002538662	12O 20S 38E NE SW SE	4254	446	3510	33452	9793	26121	26377	3753	9758
HESTER 12	11	3002538663	12P 20S 38E SW SE SE	1523	1408	2701	80703	80800	7794	6526	8770	5099
MELOT	2	3002538700	11C 20S 38E NW NE NW	15029	4986	1990	42159	7569	22066	14693	19337	14502
HESTER 12	9	3002538781	12K 20S 38E NE NE SW	1908	1199	4536	48737	6588	5276	20019	5058	11525
MAGNOLIA	2	3002539090	11D 20S 38E NE NW NW	1741	555	4669	62616	34150	92974	15912	3409	3409
L & M	2	3002539450	2N 20S 38E	1185	849	6430	18698	23518	58095	9793	4895	17954
DIXIE QUEEN	3	3002539451	11I 20S 38E	1679	433	3303	8104	2595	6562			
MELOT	3	3002539458	11B 20S 38E	1494	386	2941	6254	2858	6724	13100	2406	11228
BLANKENSHIP	7	3002539488	12E 20S 38E	169	46	368	2254	857	2422	11812	2461	10335
MAGNOLIA	3	3002539489	11E 20S 38E	1348	348	2653	22270	9465	23939	11919	2188	10217
ARNOLD A	2	3002539490	11F 20S 38E	980	247	1842	11166	4745	12004	7193	1468	6018
CONE A	2	3002539491	12F 20S 38E	936	258	2029	3332	1499	3499	4342	887	3634
ARNOLD A	3	3002539636	11F 20S 38E NE SE NW	1644	411	3082	7445	3165	8005	9864	2015	8253
DIXIE QUEEN	4	3002539650	11I 20S 38E	860	223	1693	4104	1743	4410			
L & M	3	3002539652	2N 20S 38E	457	326	2485	2705	3416	8114	2325	1125	4050
MERIT	2	3002539653	11O 20S 38E	610	196	1372	6572	3380	8824	887	268	908
REDTAG	3	3002539655	2J 20S 38E	314	370	2165	1350	3013	6026	2625	1811	4617
TOTALS				341,140	222,864	1,515,548	3,310,790	3,928,260	8,936,908	568,442	247,140	823,011
AVERAGES				7,753	6,308	30,311	73,673	93,530	186,186	14,906	7,269	18,708

Proposed Allocations	Oil	Gas	Water
Blnebr	18%	21%	36%
Tubb	12%	26%	18%
Drnkard	70%	53%	46%
TOTAL	100%	100%	100%

White Owl #1

API # 30-025-36689

Sec 2, T20S, R38E

Elevation: 3590' KB, 3573' GL

TD: 7,741'

PBTD: 5,557'

Casing Record: 13-3/8" 48# @ 127' w/ 200 sxs
 8-5/8" 24# J-55 @ 1636' w/ 725 sxs
 5-1/2" 17# N-80 @ 7,741' w/ 1710 sxs

Perfs: Blinebry: 5,982-6,139 (Open)

 Tubb: 6,802-6,890 (Behind CIBP @6,231')

 Drinkard: 6,986-7,106 (Behind CBP @ 6,920')

Objective: Drill out plugs and commingle zones

AFE: PA-12-4015

1. MIRU unit. Kill well as necessary. Unseat pump. POOH W/ rods and pump.
2. ND WH. NU BOP. Release TAC. POOH w/ tubing and TAC.
3. RIH w/ retrieving head and 5-1/2" casing scraper and tag fill @ 6,231'. Wash to RBP at 6400' and retrieve RBP. POOH.
4. RIH w/ 4-3/4" bit and 5-1/2" scrapper and tag CBP @ 6,920'. Drill out CBP. Continue in hole to PBTD at 7,557'. Circulate bottoms up twice. POOH.
5. RIH W/ 2-7/8" production tubing to bottom perfs. Spot 1000 gal 15% NEFE HCL across all perfs from 5982'-7106'. Dump 500 gallons 200 gallons 15% NEFE down backside.
6. RU swab equipment and recover load and swab test perfs for fluid entry and oil cut. Report results to Midland. RD swab equipment.
7. RIH w/ production tbg and rods as per the Monument office specification.
8. RDMOPU. Return well to production in Blinebry, Tubb, and Drinkard. Place into test for 10 days.

GL=3573'
KB=3590'
Spud:6/16/04

Apache Corporation – White Owl #1

Wellbore Diagram – Proposed

Date : 6/25/2012

API: 30-025-36689

Surface Location

R. Taylor



582' FNL & 330' FWL,
Lot D Sec 2, T20S, R38E, Lea County, NM

Surface Casing

13-3/8" 48# @ 127' w/ 200 sxs to surface

Intermediate Casing

8-5/8" 24# J-55 @ 1636' w/ 725 sxs

TAC @ TBD'
SN @ TBD'

TBD: Spot 1200 gal 15% NEFE HCL across all perfs

9/04: Perf Blinebry @ 5982-86; 6042-47; 6068-84; 6134-39 w/ 4 jspf.
Acidized w/ 4000 gal 20% AS290. Frac'd w/ 60k gal gelled w/ 807
SCF N2 w/ 90k# 20/40 snd & 30k# 20/40 PropNet

9/04: Perf Tubb @ 6802-08; 6818-20; 6827-30; 6835-38; 6843-49;
6858-60; 6885-90 w/ 4 jspf. Acidized w/ 3000 gal 20% AS290. Frac'd
w/ 30k gal 2% KCL w/ 52k# 20/40 snd.

8/04: Perf Drinkard @ 6986-94; 7062-70; 7082-86; 7100-06 w/ 4 jspf.
Acidized w/ 3000 gal 15% NEFE. Frac'd w/ 42k gal 30Q 15 & 20%
SXE w/ 20k# 20/40 snd.

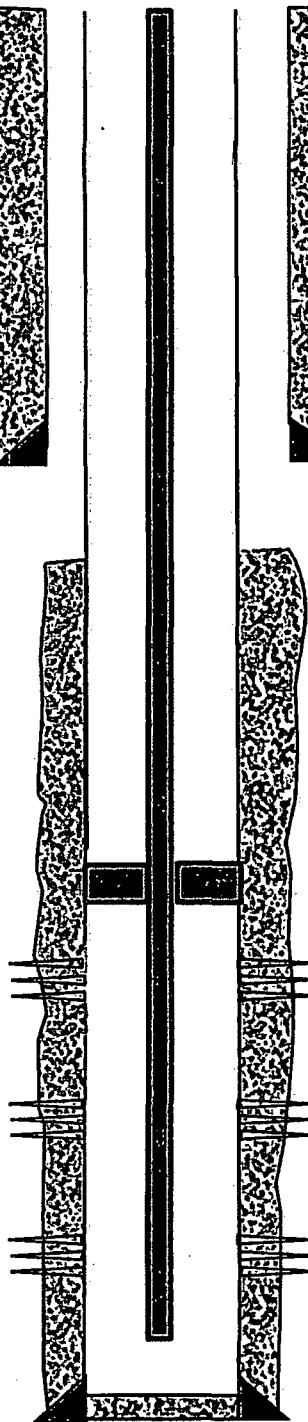
Production Casing

5-1/2" 17# N-80 @ 7741' w/ 1710 sxs to surface

Hole Size
=17"

Hole Size
=12 1/4"

Hole Size
=7-7/8"



PBTD = 7,557'
MD = 7,741'

White Owl #1

API # 30-025-36689

Sec 2, T20S, R38E

Elevation: 3590' KB, 3573' GL

TD: 7,741'

PBTD: 7,557'

Casing Record: 13-3/8" 48# @ 127' w/ 200 sxs
8-5/8" 24# J-55 @ 1636' w/ 725 sxs
5-1/2" 17# N-80 @ 7,741' w/ 1710 sxs

Perfs: Blinebry: 5,982-6,139

Tubb: 6,802-6,890

Drinkard: 6,986-7,106

Objective: Perforate the Abo and commingle the B-T-D-A

AFE: PA-13-3408

1. MIRU unit. Kill well as necessary. Unseat pump. POOH W/ rods and pump.
2. ND WH. NU BOP. Release TAC. POOH w/ tubing and TAC.
3. PU & RIH w/ SN and PKR to 7,150'. Set PKR. Pressure casing to 500 psi and ensure that the Abo is not perforated previously by Capataz. POOH. *If able to pump into, POOH and run CCL to identify perforations. Report results to Midland and wait on evaluation.*
4. PU & RIH w/ 2-7/8" tubing to be used as WS, and 4-3/4" bit, bit sub and collars and 5-1/2" scrapper to PBTD. (Tight spot or plug at 7,557'). May need to break circulation and drill out obstruction at 7,557'. POOH.
5. MIRU WL. RIH w/ perforating gun and perforate the Abo from 7425-29; 7457-64; 7472-74; 7492-7501; 7523-28; 7533-47; 7560-68; 7590-7604; 7612-16; 7632-38 w/ 2 jspf 60° phasing Connex BH charges (146 holes). **Correlate to Schlumberger Three Dectector Litho-Density Compensated Neutron/Gamma Ray log dated 7/13/2004.** POOH w/ WL. RDMO WL.
6. RIH w/ SN+ PKR on 2-7/8" production tubing to bottom perfs @ 7,638'. Spot 1000 gal 15% NEFE HCL across all perfs from 7,425'-7,638'. TOH and set PRK above new perfs at 7,375'.
7. MIRU acid services. Acidize the Abo (7,425-7,638) with 5000 gallons 15% NEFE HCL w/ additives using 260 ball sealers to divert evenly spaced through the job at a max rate. Max treating pressure not to exceed 6000 psi at surface. Displace to bottom perf with 44 BBLs of flush. Surge balls.
8. Release PKR and TIH to knock balls off perforations. TOH and set PKR at 7,375'
9. RU swab equipment and recover load and swab test perfs for fluid entry and oil cut. Report results to Midland. RD swab equipment.
10. Kill well if necessary. Release PKR and TOH.
11. RIH w/ production tbg and rods as per the Monument office specification.
12. RDMOPU. Return well to production in B-T-D and Abo. Place into test for 10 days.



RECEIVED OGD

2013 MAR 11 P 1:41

March 7, 2013

Mr. Will Jones
New Mexico Oil Conservation Division
1220 South Saint Francis Drive
Santa Fe, New Mexico 87505-4225

RE: Application for Exception to Rule 303-C – Downhole Commingling
White Owl #1
Unit D, Section 2, T20S, R38E
House; Blinebry (33230), House; Tubb (78760), House; Drinkard (33250)
& House; Abo (33210)
Lea County, New Mexico

Dear Mr. Jones:

Apache is requesting to amend DHC-496 to add the Abo formation. Enclosed please find form C-107A 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.

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.

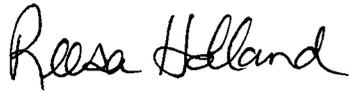
The main reason for using this method is based on economics and minimizing reservoir damage. Past completion practices had all three zones perforated and fracture stimulated during one full week. Each zone was isolated by a retrievable bridge plug to allow for production testing of each zone for allocation 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.

If you need additional information or have any questions, please give me a call at (432) 818-1062.

Sincerely,

A handwritten signature in black ink that reads "Reesa Holland". The signature is written in a cursive, flowing style.

Reesa Holland
Sr Staff Regulatory Technician

30-015-33362-00-00

POKER LAKE UNIT No. 192Q

Company Name: BASS ENTERPRISES PRODUCTION CO

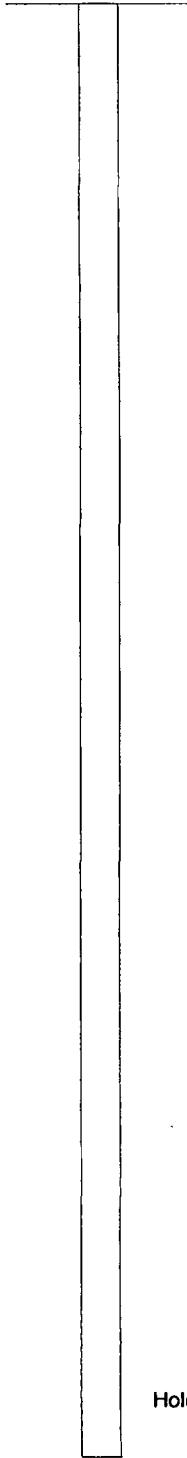
Location: Sec: 8 T: 24S R: 30E Spot:

String Information

Lat: 32.2307951440196 Long: -103.910962272597

Property Name: POKER LAKE UNIT

County Name: Eddy



Cement Information

/

Perforation Information

Top (ft sub)	Bottom (ft sub)	Shts/Ft	No Shts	Dt Sqz
0	0			

Formation Information

St Code	Formation	Depth
Prust	Rustler	856
Psal	Salado	1370
Pbslt	Base of Salt	3272
Pdel	Delaware	3486

Hole: Unknown

TD:

TVD: 0

PBTD:

28b. Production - Interval C

Date First Produced	Test Date	Hours Tested	Test Production →	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate →	Oil BBL	Gas MCF	Water BBL	Gas : Oil Ratio	Well Status	

28c. Production - Interval D

Date First Produced	Test Date	Hours Tested	Test Production →	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate →	Oil BBL	Gas MCF	Water BBL	Gas : Oil Ratio	Well Status	

29. Disposition of Gas (Sold, used for fuel, vented, etc.)
SOLD

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 FEB 21 2006
 CALIFORNIA

30. Summary of Porous Zones (Include Aquifers):
 Show all important zones or porosity and contents thereof. Cored intervals and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures and recoveries.

31. Formation (Log) Markers

Formation	Top	Bottom	Descriptions, Contents, etc.	Name	Top
					Meas. Depth
				T/RUSTLER ANHYDRITE	858'
				T/SALT	1370'
				B/SALT	3272'
				T/LAMAR LIME	3486'
				T/BELL CANYON	3512'
				T/LOWER CHERRY CANYON	5616'
				T/BRUSHY CANYON	6337'
				T/LOWER BRUSHY CANYON	7031'
				T/BONE SPRING LIME	7291'
				T/AVALON SAND	7380'

32. Additional remarks (include plugging procedure):

Additional TOP's for Poker Lake unit # 192 - API # 30-015-33362

33. Indicate which items have been attached by placing a check in the appropriate boxes:

- Electrical/Mechanical Logs (1 full set req'd.)
 Geological Report
 DST Report
 Directional Survey
 Sundry Notice for plugging and cement verification
 Core Analysis
 Other

34. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records (see attached instructions)*

Name (please print) Cindi Goodman Title Production Clerk
 Signature *Cindi Goodman* Date 06/28/2005 2/15/06

Title 18 U.S.C. Section 101 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 and false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.