

DATE IN <u>1.25.12</u>	SUSPENSE	ENGINEER <u>WUT</u>	LOGGED IN <u>1.25.12</u>	TYPE <u>DHC</u>	APP NO. <u>1202552618</u>
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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



Apache

JG HARE #19

ADMINISTRATIVE APPLICATION CHECKLIST

30-025-40206

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 _____

M-33-215-37E

Feb/2012

[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

*R-8170H
oil 40 acres
gas 160 acres*

[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

Reesa Holland
Signature

SR STAFF ENGR TECH
Title

1/19/2012
Date

Reesa.Holland@apachecorp.com
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 Grande Road, Artesia, NM 87410

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

State of New Mexico
Energy, Minerals and Natural Resources Department

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

Form C-107A
Revised June 10, 2003

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

JG Hare

019

K

33

21S

37E

Lea

Lease

Well No.

Unit Letter-Section-Township-Range

County

OGRID No. 873 Property Code 26473 API No. 30-025-40206 Lease Type: Federal State ☒ Fee

DATA ELEMENT	UPPER ZONE	INTERMEDIATE ZONE	LOWER ZONE
Pool Name	Paddock	Blinbry Oil & Gas (Oil)	Tubb Oil & Gas (Oil)
Pool Code	49210	6660	60240
Top and Bottom of Pay Section (Perforated or Open-Hole Interval)	5134'-5294'	5505'-5677'	6022'-6189'
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)	NA	NA	NA
Oil Gravity or Gas BTU (Degree API or Gas BTU)	37.6	37.6	37.6
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: See Attached Rates:	Date: See Attached Rates:	Date: See Attached 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 Gas 63 % 15 %	Oil Gas 16 % 39 %	Oil Gas 7 % 35 %

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 Engineering Tech DATE 1/19/2012

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
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
JG Hare 019 K 33 21S 37E Lea
Lease Well No. Unit Letter-Section-Township-Range County
OGRID No. 873 Property Code 26473 API No. 30-025-40206 Lease Type: ☐ Federal ☐ State ☒ Fee

DATA ELEMENT	UPPER ZONE	INTERMEDIATE ZONE	LOWER ZONE
Pool Name	Wantz; Abo		
Pool Code	62700		
Top and Bottom of Pay Section (Perforated or Open-Hole Interval)	6676'-6951'		
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)	NA		
Oil Gravity or Gas BTU (Degree API or Gas BTU)	37.6		
Producing, Shut-In or New Zone	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: See Attached Rates:	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 Gas 14 % 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.

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 Engineering Tech DATE 1/19/2012
TYPE OR PRINT NAME Reesa Holland TELEPHONE NO. (432) 818-1062
E-MAIL ADDRESS Reesa.Holland@apachecorp.com

Submit 3 Copies To Appropriate District Office
District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Ave., Artesia, NM 88210
District III
1000 Rio Brazos Rd., Aztec, NM 87410
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

WELL API NO. 30-025-40206	
5. Indicate Type of Lease STATE ☐ FEE ☒	
6. State Oil & Gas Lease No.	
7. Lease Name or Unit Agreement Name JG Hare	
8. Well Number 019	
9. OGRID Number 873	
10. Pool name or Wildcat Paddock/Bl/O&G:Oil/TubbO&G:Oil/Wantz,Abc	
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: ☒ Oil Well ☐ Gas Well ☐ Other:	
2. Name of Operator Apache Corporation	
3. Address of Operator 303 Veterans Airpark Lane, Suite 3000 Midland, TX 79705	
4. Well Location Unit Letter M : 990 feet from the South line and 480 feet from the West line Section 33 Township 21S Range 37E NMPM County Lea	
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 3448' GL	

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

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
PERFORM REMEDIAL WORK ☐	PLUG AND ABANDON ☐	REMEDIAL WORK ☐	ALTERING CASING ☐
TEMPORARILY ABANDON ☐	CHANGE PLANS ☐	COMMENCE DRILLING OPNS. ☐	P AND A ☐
PULL OR ALTER CASING ☐	MULTIPLE COMPL. ☐	CASING/CEMENT JOB ☐	
DOWNHOLE COMMINGLE ☒			
OTHER: ☐		OTHER: ☐	

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 requests permission to complete and DHC this well, per the following:

Pool Names: Paddock	49210	Perforations: Paddock	5134'-5294'
Blinebry O&G (Oil)	6660	Blinebry	5505'-5677'
Tubb O&G (Oil)	60240	Tubb	6022'-6189'
Wantz; Abo	62700	Abo	6676'-6951'

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

	OIL	GAS	Water
Paddock	63%	15%	71%
Blinebry	16%	39%	15%
Tubb	7%	35%	7%
Abo	14%	11%	7%

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

Spud Date: 09/11/2011 Rig Release Date: 09/18/2011

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

SIGNATURE Reesa Holland TITLE Sr. Engr Tech DATE 09/28/2011

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

APPROVED BY: _____ TITLE _____ DATE _____
Conditions of Approval (if any): _____

District I
1625 N. French Dr., Hobbs, NM 88240
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State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-102
Revised October 12, 2005
Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-025-40206		Pool Code 49210	Pool Name Paddock
Property Code 26473	Property Name J G Hare		Well Number 019
GRID No. 873	Operator Name Apache Corporation: 303 Veterans Airpark Lane, Suite 3000 Midland, TX 79705		Elevation 3448' GL

10 Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
K	33	21S	37E	2310	1650	South	1650	West	Lea

11 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.									

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.

16	17 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. <u>Reesa Holland</u> 09/28/2011 Signature Date Reesa Holland Printed Name
	18 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 of Survey Signature and Seal of Professional Surveyor:
	Certificate Number

District I
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1000 Rio Brazos Rd., Aztec, NM 87410
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State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-102
Revised October 12, 2005
Submit to Appropriate District Office
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☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

1 API Number 30-025-40206		2 Pool Code 6660		3 Pool Name Blinebry Oil & Gas (Oil)	
4 Property Code 26473		5 Property Name J G Hare			6 Well Number 019
7 OGRID No. 873		8 Operator Name Apache Corporation: 303 Veterans Airpark Lane, Suite 3000 Midland, TX 79705			9 Elevation 3448' GL

10 Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
K	33	21S	37E		2310	South	1650	West	Lea

11 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
12 Dedicated Acres 40		13 Joint or Infill		14 Consolidation Code		15 Order No.			

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.

16	17 OPERATOR CERTIFICATION <i>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.</i> <i>Reesa Holland</i> 09/28/2011 Signature Date Reesa Holland Printed Name	
	18 SURVEYOR CERTIFICATION <i>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.</i> Date of Survey Signature and Seal of Professional Surveyor:	
	Certificate Number	

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State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-102
Revised October 12, 2005
Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-025-40206		² Pool Code 60240	³ Pool Name Tubb Oil & Gas (Oil)
⁴ Property Code 26473	⁵ Property Name J G Hare		⁶ Well Number 019
⁷ OGRID No. 873	⁸ Operator Name Apache Corporation: 303 Veterans Airpark Lane, Suite 3000 Midland, TX 79705		⁹ Elevation 3448' GL

¹⁰ **Surface Location**

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
K	33	21S	37E	2310	South	1650	West	Lea	

¹¹ **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
¹² Dedicated Acres 40		¹³ Joint or Infill		¹⁴ Consolidation Code		¹⁵ Order No.			

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.

¹⁶ 	¹⁷ 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. <u>Reesa Holland</u> 09/28/2011 Signature Date Reesa Holland Printed Name	
	¹⁸ 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 of Survey Signature and Seal of Professional Surveyor:	
	Certificate Number	

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Form C-102
Revised October 12, 2005
Submit to Appropriate District Office
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☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-025-40206		Pool Code 62700		Pool Name Wantz; Abo	
Property Code 26473		Property Name J G Hare			Well Number 019
OGRID No. 873		Operator Name Apache Corporation: 303 Veterans Airpark Lane, Suite 3000 Midland, TX 79705			Elevation 3448' GL

¹⁰ Surface Location

UL or lot no. K	Section 33	Township 21S	Range 37E	Lot Idn 2310	Feet from the South	North/South line	Feet from the 1650	East/West line West	County Lea
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¹¹ 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
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Dedicated Acres 40	Joint or Infill	Consolidation Code	Order No.
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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 <i>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 undivided 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.</i> <i>hereby entered by the operator:</i> Signature Date 09/28/2011 Printed Name Reesa Holland
	¹⁸ SURVEYOR CERTIFICATION <i>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.</i> Date of Survey Signature and Seal of Professional Surveyor: Certificate Number

Lease Name	Well Number	TOD(GT/AP)	Location	Cum Oil (BBL)				Cum Gas (MCF)				Cum Water (BBL)			
				Paddock	Blinery	Tub	Abn	Paddock	Blinery	Tub	Abn	Paddock	Blinery	Tub	Abn
WILLIAM TURNER	4	3002527281	23J 21S 37E		19811			96021	191023			548074	13129		11455
GRIZZELL	7	3002527462	5P 22S 37E		20287	1338			491571	24275			11718	1075	
CORDELLA HARDY	7	3002528691	24P 21S 37E	120895				456706				304594			
CORDELLA HARDY	9	3002528900	29C 21S 37E		26178				1110017			58164			
MARSHALL B	10	3002528797	17M 21S 37E SW SW		12250		18024		823058		659994	11268		9728	
LOCKHART A 27	14	3002532169	27A 21S 37E NE NE	114842				552235				171908			
LOCKHART A 27	15	3002533871	17F 21S 37E		5536				166444			3395			
LOCKHART A 27	16	3002534312	27B 21S 37E NW NE		2187				1007286			3628			
OWEN B	8	3002534321	34K 21S 37E NE SW		584	1130	17404		311290	435047	246063	397	7498	34685	
E O CARSON	24	3002534353	28M 21S 37E SW SW		19876				350833			30193			
URAM HARDY GAS COM	5	3002534358	28M 21S 37E SE NE		7810				162490			16670			
W T MCCOMACK	18	3002534669	32P 21S 37E SE SE			2049			922306				5970		
HENSON	1	3002535090	5G 22S 37E SE SW NE				41391				65004			1833	
PADDOCK UNIT	37	3002535520	3M 22S 37E SW SW SW	20182				62760				38651			
STATE DB	3	3002535532	30E 21S 37E NW SW NW		20057	1865			142868	8174		407544	50872		
OWEN B	10	3002535658	34L 21S 37E		8645				538141			6154			
GRIZZELL	4	3002536783	15O 22S 37E NW SW SE		53			1208				30			
WILLIAM TURNER	8	3002537076	23I 21S 37E SE NE SE	22735				282100				335332			
W H TURNER	3	3002537161	28K 21S 37E NE NE SW		13519	1857			485273	170452		60565	8717		
GRIZZELL	5	3002537165	15J 22S 37E NE NW SE		3579	3185			42844	42747		23835	23562		
OWEN B	12	3002537239	38M 21S 37E SE SW SW		15270	5378	7963		154874	91471	64552	9044	3049	6820	
WILLIAM TURNER	9	3002537685	28L 21S 37E NE NE SE	9349				42084				108645			
WILLIAM TURNER	12	3002537687	28J 21S 37E NE NW SE	33								456373			
WILLIAM TURNER	11	3002537690	28J 21S 37E SW NW SE	14863		13788		67776						155541	
H S TURNER	8	3002537873	28M 21S 37E NW SW SW								194548				
H CORRIGAN	18	3002538008	4 22S 37E NE NE NE		2469	1179			45503	24201		5425	4688		
W H TURNER	9	3002538128	26L 21S 37E SE NW SW		9314	8637			399441	88283		105399	122466		
H CORRIGAN	20	3002538219	4H 22S 37E NE SE NE		2463	282			85639	9126		19410	4865		
RENEWALT	8	3002538224	4 22S 37E SE NE NW		18788	1563			149581			5117	8104		
H S TURNER	10	3002538286	26N 21S 37E NE SE SW		6418	6644			700811	74695		58934	61188		
H CORRIGAN	21	3002538505	4 22S 37E NW NW NE		642	301			16848	14116		7476	1377		
E O CARSON	27	3002539024	33P 21S 37E SW SE NW			3183				215301			53185		
LOCKHART A 27	23	3002539114	27C 21S 37E SE NE NW		888	2457			38793	18550		899	1250		
LOCKHART A 27	26	3002539115	27H 21S 37E NE SE NE		5188	2350			163726	64004		3964	1513		
MARSHALL B	14	3002539551	27K 21S 37E		1415	578			33621	38426		1867	787		
J G HARE	18	3002539688	33N 21S 37E		4738	1419			36310	38335		7499	1205		
TURNER	17	3002539691	29O 21S 37E		2452	881			78314	55536					
H CORRIGAN	22	3002539715	4 22S 37E		631	330	916		5407	4135	20602	2351	588	14790	
OWEN B	13	3002539732	34N 21S 37E		135	51	1089		8108	5569	12829	127	55	1262	
W T MCCOMACK	31	3002539972	32G 21S 37E		2305	1812			5551	7205		11598	7730		
W T MCCOMACK	32	3002539973	32O 21S 37E		1502	944			10320	7785		2396	1596		
TOTALS				9,633,898	3,884,154	1,315,262	926,484	48,612,432	218,601,601	137,314,860	13,848,771	11,216,475	4,183,473	1,185,051	361,377
AVERAGES				102,409	28,345	10,848	22,053	551,278	1,447,024	1,275,138	414,509	134,672	29,052	12,754	12,481

Proposed Allocations	Oil	Gas	Water
Paddock	63%	15%	71%
Blinery	16%	39%	15%
Tub	7%	35%	7%
Abn	14%	11%	7%
TOTAL	100%	100%	100%



AFE No: PA-11-0567

JG Hare #19

API #: 30-025-40206

2310' FSL & 1650' FWL

Section 33, Township 21S, Range 37E

Lea County, New Mexico

Completion Procedure – Paddock-Blinebry-Tubb-Abo

26 September 2011

Recommended Procedure:

Note: 5-1/2", 17#, J-55 & L-80 csg set @ 7202' w/1250 sx cmt. (Circ 160 sx).
(952' of L-80 csg on top). PBTD @ +/-7157'.

Abo:

1. MIRU PU. Install BOP. Pressure test csg.
2. MIRU wireline unit. Run GR/CCL/CBL log from PBTD +/- 7157' to surface. Correlate to Weatherford Compensated Photo Density/Compensated Neutron/Spectral Gamma Ray log dated 9/17/11.
3. Perforate the Abo interval @ 6676', 81', 96', 6708', 14', 39', 41', 49', 51', 53', 55', 63', 65', 67', 75', 83', 85', 87', 89', 99', 6803', 05', 11', 43', 47', 53', 57', 69', 90', 97', 99', 6912', 14', 16', 20', 25', 27', 37', 39', 47', 49' & 51' w/1 spf, 120 degree phasing. Total = 42 shots.
4. RIH w/pkr & 2-7/8" tbg. Set pkr @ +/- 6600'.
5. Acidize Abo interval 6676' – 6951' w/10,000 gals 20% anti-sludge HCL acid and ball sealers. Attempt to get 8-10 BPM rate with max treating pressure of 6,000 psi.
6. Release pkr & run thru perms to knock off balls. Reset pkr @ +/-6600'.
7. Swab back load from Abo interval. Report results to Midland office.
8. Release pkr. POOH.
9. MIRU wireline unit. Set a composite bridge plug above the Abo @ +/- 6600'.

Tubb:

1. Perforate the Tubb interval @ 6022', 29', 31', 46', 48', 50', 81', 85', 89', 91', 93', 97', 99', 6101', 03', 05', 11', 25', 27', 29', 43', 45', 51', 56', 65', 67', 69', 71', 77', 79', 81', 83', 85', 87' & 89' w/2 spf, 120 degree phasing. (Total : 70 shots).
2. RIH w/2-7/8" tbg and pkr. Set pkr @ +/- 5950'.
3. Acidize the Tubb interval w/3,000 gals 15% HCL-NE-FE BXDX acid and ball sealers.
4. Release pkr and run through perms to knock off balls. POOH.
5. RU frac equipment. Pump 1 drum corrosion inhibitor followed by 10 bbl pad of 2% KCL. Pump 2 drums scale inhibitor and flush w/10 bbls 2% KCL.
6. Frac the Tubb interval w/120,000# 20/40 SLC (or equivalent) resin coated sand down 5-1/2" csg @ 40 BPM in 25# XL gel as per frac recommendation.
7. Spot 1,000 gals 15% HCL from 5650' – 4650' during Tubb frac flush.
8. RIH and set a composite bridge plug above the Tubb interval @ +/- 5800'.

Blinebry:

1. Perforate the Blinebry Interval @ 5505', 07', 09', 15', 32', 37', 59', 61', 63', 5629', 31', 37', 39', 41', 73', 75' & 77' w/3 spf, 120 degree phasing. (Total : 51 shots).
2. Acidize the Blinebry Interval w/3,000 gals 15% HCL acid and ball sealers.
3. RIH w/junk basket and run through perfs to knock off balls. POOH.
4. Pump 1 drum corrosion inhibitor followed by 10 bbl pad of 2% KCL. Pump 2 drums scale inhibitor and flush w/10 bbls 2% KCL.
5. Frac the Blinebry interval w/50,000# 20/40 SLC (or equivalent) resin coated sand down 5-1/2" csg @ 40 BPM in 25# XL gel as per frac recommendation.
6. Spot 1,000 gals 15% HCL from 5300' - 4300' during Blinebry frac flush.
7. RIH and set a composite bridge plug above the Blinebry interval @ +/- 5400'.

Paddock:

1. Perforate the Paddock interval @ 5134', 36', 38', 40', 47', 60', 62', 64', 66', 68', 70', 72', 74', 76', 78', 80', 88', 90', 92', 5200', 02', 04', 06', 08', 14', 16', 22', 24', 26', 36', 49', 58', 60', 62', 64', 70', 72', 74', 76', 78', 86', 88', 90', 92' & 94' w/1 spf, 120 degree phasing. (Total : 45 shots).
2. Acidize the Paddock interval w/4,000 gals 15% HCL acid and ball sealers.
3. RIH w/junk basket and run through perfs to knock off balls. POOH.
4. Pump 1 drum corrosion inhibitor followed by 10 bbl pad of 2% KCL. Pump 2 drums scale inhibitor and flush w/10 bbls 2% KCL.
5. Frac the Paddock interval w/150,000# 20/40 SLC (or equivalent) resin coated sand down 5-1/2" csg @ 40 BPM in 25# XL gel as per frac recommendation.
6. RIH w/2-7/8" tbg and bit. Drill out plugs. Clean out to +/- 7150' PBTD. POOH.
7. RIH w/2-7/8" production tubing. Land SN @ +/-7000'. RIH w/1-1/2" pump & rods.
8. Install 640 PU.
9. Place well in test.

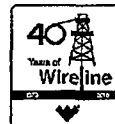
Marked



Weatherford®

COMPENSATED PHOTO DENSITY
COMPENSATED NEUTRON
SPECTRAL GAMMA RAY

COMPANY APACHE CORPORATION
WELL J G HARE #19
FIELD EUNICE AREA
PROVINCE/COUNTY LEA
COUNTRY/STATE U.S.A. / NEW MEXICO
LOCATION 231' FSL & 1650' FWL
SEC 33 T-21S RGE 37E



SEC 33	TWP 21S	RGE 37E	Other Services DUAL LATEROLOG COMPENSATED SONIC	MICRO LATEROLOG
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API Number 30-025-40206
Permit Number

Permanent Datum GL, Elevation 3448 feet
Log Measured From KB
Drilling Measured From KB

Elevations: feet
KB 3459.00
DF 3458.00
GL 3448.00

Date	17-SEP-2011	
Run Number	ONE	
Depth Driller	7202.00	feet
Depth Logger	7204.00	feet
First Reading	7157.00	feet
Last Reading	100.00	feet
Casing Driller	1263.00	feet
Casing Logger	1263.00	feet
Bit Size	7.875	inches
Hole Fluid Type	BRINE	
Density / Viscosity	9.90 g/cc	31.00 sec/qt.
PH / Fluid Loss	8.50	8.00 ml/30Min
Sample Source	FLOWLINE	
Rm @ Measured Temp	0.051 @ 72.0	ohm-m
Rmf @ Measured Temp	0.038 @ 72.0	ohm-m
Rmc @ Measured Temp	0.063 @ 72.0	ohm-m
Source Rmf / Rmc	CALC	CALC
Rm @ BHT	0.034 @ 112.0	ohm-m
Time Since Circulation	12 HOURS	
Max Recorded Temp	112.00	deg F
Equipment Name	COMPACT	
Equipment / Base	13240	4352
Recorded By	DIRK ENLOE	
Witnessed By	ROBERT JOHNSON	

