

Order Number

482

API Number

30-025-39285

Operator

Apache Corporation

County

Lea

Order Date

10-3-2011

Well Name

JG Hare

Number

17

Location

M

UL

33

Sec

215

T (+Dir)

37E

R (+Dir)

Oil %

76

Gas %

25

Pool 1

49210

Paddock

Pool 2

60240

Tubb D+G (Oil)

8

57

Pool 3

62700

Wantz- Abo

16

18

Pool 4

Comments

Posted in RBOMS

COH

10-4-2011

DOWNHOLE COMMINGLE CALCULATIONS:

DHC-HOB-482
30-025-39285

OPERATOR: Apache Corporation

PROPERTY NAME: J G Hare

WNULSTR: 17-M-33-215-37E

SECTION I:

POOL NO. 1 Paddock

ALLOWABLE AMOUNT

107 642 MCF

POOL NO. 2 Tubb O+G (Oil)

142 284 MCF

POOL NO. 3 Wantz - Abo

187 1122 MCF

POOL NO. 4 _____

POOL TOTALS 436 2048 MCF

SECTION II:

POOL NO. 1 Paddock

Oil
76%

Gas
25%

POOL NO. 2 Tubb O+G (Oil)

8%

57%

POOL NO. 3 Wantz - Abo

$16\% \times 436 = 69.76$
< 70 >

18%

POOL NO. 4 _____

OIL

GAS

SECTION III:

$16\% \div 187 = 1168.75$ < 1169 >

SECTION IV:

$76\% \times 1169 = 128.44$ < 128 >

$8\% \times 1169 = 93.52$ < 94 >

$16\% \times 1169 = 187.04$ < 187 >

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

HOBBS OGD
SEP 30 2011

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

WELL API NO. 30-025-39285
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 017
9. OGRID Number 873
10. Pool name or Wildcat Paddock/Tubb Oil&Gas (Oil)/Wantz, Abo

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 Airport 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.)
3449' GL

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

NOTICE OF INTENTION TO: PERFORM REMEDIAL WORK ☐ PLUG AND ABANDON ☐ TEMPORARILY ABANDON ☐ CHANGE PLANS ☐ PULL OR ALTER CASING ☐ MULTIPLE COMPL ☐ DOWNHOLE COMMINGLE ☒		SUBSEQUENT REPORT OF: REMEDIAL WORK ☐ ALTERING CASING ☐ COMMENCE DRILLING OPNS. ☐ P AND A ☐ CASING/CEMENT JOB ☐	
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: R-11363

Pool Names: Paddock	49210	Perforations: Paddock	5114'-5296'
Tubb O&G (Oil)	60240	Tubb	6011'-6223'
Wantz, Abo	62700	Abo	6682'-7069'

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

	OIL	GAS	Water
Paddock	76%	25%	84%
Tubb	8%	57%	8%
Abo	16%	18%	8%

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

Spud Date: 09/13/2011 Rig Release Date: 09/25/2011

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: [Signature] TITLE PETROLEUM ENGINEER DATE OCT 03 2011
Conditions of Approval (if any):

OCT 05 2011

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HOBBS OCD State of New Mexico
Energy, Minerals & Natural Resources Department
SEP 30 2010 OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505
RECEIVED

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 30-025-39285		2 Pool Code 49210		3 Pool Name Paddock	
4 Property Code 26473		5 Property Name J G Hare			6 Well Number 017
7 OGRID No. 873		8 Operator Name Apache Corporation: 303 Veterans Airpark Lane, Suite 3000 Midland, TX 79705			9 Elevation 3449' GL

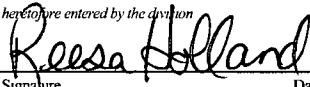
10 Surface Location

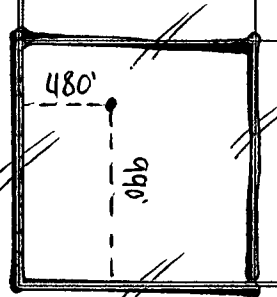
UL or lot no. M	Section 33	Township 21S	Range 37E	Lot Idn 990	Feet from the South	North/South line South	Feet from the 480	East/West line West	County Lea
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11 Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
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>  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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HOBBS OCD

SEP 30 2008

RECEIVED

State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
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Santa Fe, NM 87505

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Revised October 12, 2005
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☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-025-39285	² Pool Code 60240	³ Pool Name Tubb Oil & Gas (Oil)
⁴ Property Code 26473	⁵ Property Name J G Hare	⁶ Well Number 017
⁷ OGRID No. 873	⁸ Operator Name Apache Corporation: 303 Veterans Airpark Lane, Suite 3000 Midland, TX 79705	⁹ Elevation 3449' GL

¹⁰ Surface Location

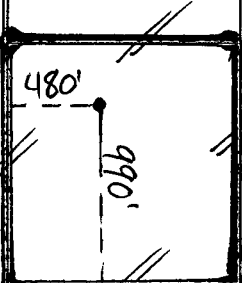
UL or lot no. M	Section 33	Township 21S	Range 37E	Lot Idn	Feet from the 990	North/South line South	Feet from the 480	East/West line West	County Lea
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¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
¹² Dedicated Acres 40	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.						

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				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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State of New Mexico

Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION

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Santa Fe, NM 87505

Form C-102

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SEP 30 2011

RECEIVED

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

1 API Number 30-025-39285		2 Pool Code 62700		3 Pool Name Wantz; Abo	
4 Property Code 26473		5 Property Name J G Hare			6 Well Number 017
7 OGRID No. 873		8 Operator Name Apache Corporation: 303 Veterans Airpark Lane, Suite 3000 Midland, TX 79705			9 Elevation 3449' GL

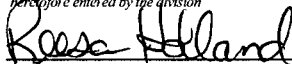
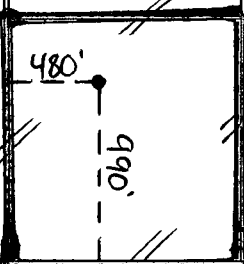
10 Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
M	33	21S	37E	990		South	480	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.			

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				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	10DIGITAPI	Location	Cum Oil (BBL)			Cum Gas (MCF)			Cum Water (BBL)		
				Paddock	Tubb	Abo	Paddock	Tubb	Abo	Paddock	Tubb	Abo
H CORRIGAN	5	3002506992	33J 21S 37E	104776			1041652			103006		
UNIT	156	3002506993	33O 21S 37E		5597			191309			8344	
CORRIGAN GAS COM	7	3002506994	33P 21S 37E		14443			3433748			1331	
CORRIGAN	2	3002506995	33I 21S 37E	93027		10082	621987		292978	239829		
OWEN B	1	3002506996	34M 21S 37E	18611			78576			49002		
OWEN B	2	3002506997	34L 21S 37E		77956			5866431			48834	
OWEN B	2	3002507000	34L 21S 37E	126532	78621		90250	6953142		18717	14624	
MARK OWEN	4	3002507003	34J 21S 37E		4763			554425			2234	
MARK OWEN	5	3002507004	34P 21S 37E		33716			3337338				
MARK OWEN	6	3002507005	34O 21S 37E SW SW SE	2413	403		5221	90285		17527	2256	
PADDOCK UNIT	2	3002507006	34P 21S 37E	223935			387186			122626		
F F HARDISON B	1	3002507008	34H 21S 37E		2473			130730				
F F HARDISON B	2	3002507009	34A 21S 37E		10398			505314				
F F HARDISON B	3	3002507010	34G 21S 37E SE SW NE		20			68691			250	
MARSHALL COM	2	3002507012	34F 21S 37E SE NW	12161			53476			43476		
MARSHALL COM	1	3002507013	34E 21S 37E E2 SW NW	78431			250724			50756		
MARSHALL COM	5	3002507016	34C 21S 37E		12699			2871566			5154	
MARSHALL COM	6	3002507017	34E 21S 37E	448109			2159778			205255		
MARSHALL COM	7	3002507018	34C 21S 37E	14226								
MARSHALL COM	8	3002507019	34D 21S 37E	392012			1787822			205702		
UNIT	163	3002509355	29L 21S 37E NW NW SW									
BRUNSON B	3	3002509976	3M 22S 37E		3828			195644			18	
PADDOCK UNIT	38	3002509977	3N 22S 37E	190384			609445			3352		
BRUNSON B	6	3002509978	3M 22S 37E SW SW SW			512			26863			70
BRUNSON B	7	3002509980	3N 22S 37E SE SE SW		858			617477			175	
PADDOCK UNIT	27	3002509984	3I 22S 37E	185475			186473			3587		
BRUNSON C	4	3002509986	3J 22S 37E C NW SE		750			52667			641	
BRUNSON C	5	3002509987	3O 22S 37E	146167			439431			6125		
BRUNSON C	6	3002509988	3I 22S 37E NE NE SE		34087			7286696			11712	
BRUNSON C	7	3002509989	3P 22S 37E NE SE SE	176692	1223		323033	39464		9619	623	
MARK	2	3002509991	3 22S 37E		6059			352988			10257	
BRUNSON	6	3002509993	3L 22S 37E	278734				749555		102331		
PADDOCK UNIT	9	3002509994	3 22S 37E	215165			621561			75304		
MARK	3	3002509995	3G 22S 37E C SW NE	456								
MARK	4	3002509996	3H 22S 37E	152377	3884		157209	2265684		111256	5573	
MARK	8	3002509998	3 22S 37E	108794		6206	49698		351561	7645		8811
E OWENS	1	3002509999	3D 22S 37E C NW NW		10500			1340153				
OWEN	2	3002510000	3C 22S 37E	156								
OWEN A	1	3002510005	3E 22S 37E SW NW	23644			82308			9778		
H CORRIGAN	4	3002510006	4 22S 37E		17034			2489256			347	
H CORRIGAN	5	3002510010	4G 22S 37E C SW NE	18618			534315			261274		
H CORRIGAN	6	3002510011	4B 22S 37E	24827		2502	383664		19433	176212		833
H CORRIGAN	7	3002510012	4H 22S 37E		13267			151180			6472	
H CORRIGAN	10	3002510015	4H 22S 37E	31888			325768			233798		
BRUNSON B	1	3002510016	4I 22S 37E		9267			163155	9405		3525	
H CORRIGAN	11	3002510017	4 22S 37E	10274			312589			145708		
E A STICHER	3	3002510025	4N 22S 37E	32368	6851		267459	167906		115534	4801	
R L BRUNSON	1	3002510030	4J 22S 37E		3821			240755				
RINEWALT	1	3002510034	4F 22S 37E SE SE NW	526			75740			52992		
RINEWALT	2	3002510035	4C 22S 37E	18	4838		873	196810		2790		
RINEWALT	3	3002510036	4F 22S 37E			27060			309082			27383
RINEWALT	4	3002510037	4 22S 37E		14715	13889		2297311	93556		16138	808
TEXACO E A STICHER	1	3002510038	4K 22S 37E	167267			358218			210182		
E A STICHER	2	3002510039	4L 22S 37E NW SW	7674			69087			37602		
E A STICHER	3	3002510040	4K 22S 37E SW NE SW		4487			171175			3361	
E A STICHER	4	3002510041	4L 22S 37E	54541	10049		108554	2160432		466813	4556	
RINEWALT	1	3002510042	4 22S 37E			43524						
RINEWALT B	1	3002510044	4 22S 37E		2489			1499622			14436	
R L BRUNSON	1	3002510045	4P 22S 37E SE SE	20758		26331			2909647			5498
R L CLIFTON	2	3002510046	4M 22S 37E SE SW SW		2899			82551			7446	
MARK	5	3002510049	3 22S 37E		74244			4641541			11966	
L I BAKER	3	3002510057	5I 22S 37E		150			2638			60	
LEE STEBBINS NCT B	3	3002510061	5 22S 37E E2 NE NE		10556	20334		1649412	63330		2476	33831
LEE STEBBINS NCT B	4	3002510062	5 22S 37E E2 NW NE		4505			61917			8668	
LEE STEBBINS NCT A	3	3002510064	5F 22S 37E		47							
B A CHRISTMAS	1	3002510069	5H 22S 37E SE NE		1847			302762			1731	
GRIZZELL	1	3002510070	5G 22S 37E SW NE		1401			468329			518	
GRIZZELL	2	3002510071	5P 22S 37E	2684								
BRUNSON B	2	3002512573	3K 22S 37E NE SW	222785			263897			7537		
W T MCCOMACK	17	3002523117	32I 21S 37E SW NE SE		6624			593771			3170	
PADDOCK UNIT	26	3002523425	3J 22S 37E	59609			148270			61298		
UNIT	161	3002524415	29F 21S 37E SE NW		894			81735			3952	
MARSHALL COM	5	3002524471	34C 21S 37E	150664	15168		675669	3597787		248192	7474	
DOWNES D	4	3002524568	32M 21S 37E E2 SW SW		9796			78148			31935	
DOWNES B	3	3002524919	5D 22S 37E NE NW NW		5978			48095			2258	
LEE STEBBINS NCT A	4	3002525355	5E 22S 37E N2 SW NW		6210			93709			11577	
MARK	10	3002525785	3H 22S 37E NE SE NE			48546		495052			29349	
F F HARDISON B	10	3002525929	34A 21S 37E			710		21164			130	
MARK	11	3002526051	3 22S 37E NW NE NE		40967			732385			34759	
MARK	12	3002526052	3G 22S 37E		40904			1947515			44741	
W T MCCOMACK	18	3002526447	32B 21S 37E	9153				225621			99065	
BRUNSON C	13	3002526639	3I 22S 37E			23499			1140276		43507	
GRIZZELL	3	3002527185	5O 22S 37E SW SE									
WILLIAM TURNER	4	3002527261	29J 21S 37E			96021			548074		11455	
GRIZZELL	1	3002527462	5P 22S 37E		1339			24275			1075	
CORDELLA HARDY	7	3002528899	29F 21S 37E	120895			456706			304594		
MARSHALL B	10	3002529797	27M 21S 37E SW SW			18024			829994		9728	
LOCKHART A 27	14	3002532169	27A 21S 37E NE NE	114642			552235			171908		
OWEN B	6	3002534321	34K 21S 37E NE SW		1130	17404		436047	246663		7498	34685

Lease Name	Well Number	10DIGITAPI	Location	Cum Oil (BBL)			Cum Gas (MCF)			Cum Water (BBL)		
				Paddock	Tubb	Abo	Paddock	Tubb	Abo	Paddock	Tubb	Abo
W T MCCOMACK	19	3002534669	32P 21S 37E SE SE		2049			922306			5970	
HENSON	1	3002535090	5G 22S 37E SE SW NE			41391			65004			1835
PADDOCK UNIT	37	3002535520	3M 22S 37E SW SW SW	20162			62760			38851		
STATE DB	3	3002535522	32E 21S 37E NW SW NW		1865			8174			50872	
GRIZZELL	4	3002536782	5O 22S 37E NW SW SE		93		1206			30		
WILLIAM TURNER	8	3002537076	29I 21S 37E SE NE SE	22735			282100			335332		
W H TURNER	3	3002537161	29K 21S 37E NE NE SW		1857			170452			9717	
GRIZZELL	5	3002537163	5J 22S 37E NE NW SE		3795			42747			23560	
OWEN B	12	3002537239	34M 21S 37E SE SW SW		5378	7963		91471	64552		3045	6625
WILLIAM TURNER	9	3002537695	29I 21S 37E NE NE SE	9349			42084			108645		
WILLIAM TURNER	12	3002537697	29J 21S 37E NE NW SE		33							
WILLIAM TURNER	11	3002537698	29J 21S 37E SW NW SE	14883			67776			456373		
H S TURNER	8	3002537873	29M 21S 37E NW SW SW		13788			194548			155541	
H CORRIGAN	18	3002538009	4 22S 37E NE NE NE		1179			24201			4688	
W H TURNER	9	3002538126	29L 21S 37E SE NW SW		8637			86283			122466	
H CORRIGAN	20	3002538219	4H 22S 37E NE SE NE		282			9126			4865	
RINEWALT	8	3002538224	4 22S 37E SE NE NW		1565						9104	
H S TURNER	10	3002538296	29N 21S 37E NE SE SW		6644			74695			61198	
H CORRIGAN	21	3002538902	4 22S 37E NW NW NE		301			14116			1377	
E O CARSON	27	3002539024	33F 21S 37E SW SE NW		3183			215301			53185	
LOCKHART A 27	23	3002539114	27C 21S 37E SE NE NW		2457			18550			1250	
LOCKHART A 27	26	3002539115	27H 21S 37E NE SE NE		2350			64004			1513	
MARSHALL B	14	3002539551	27K 21S 37E		578			38426			787	
J G HARE	18	3002539688	33N 21S 37E		1415			39335			1220	
TURNER	7	3002539691	29O 21S 37E		651			55536				
H CORRIGAN	22	3002539715	4 22S 37E		330	916		4135	20602		588	14790
OWEN B	13	3002539732	34N 21S 37E		51	1083		5569	12829		55	1262
W T MCCOMACK	31	3002539972	32G 21S 37E		1812			7205			7730	
W T MCCOMACK	32	3002539973	32O 21S 37E		944			7785			1598	
TOTALS				9,933,689	1,215,260	926,484	48,512,422	137,714,860	12,849,771	11,716,475	1,186,091	361,377
AVERAGES				102,409	10,948	22,059	551,278	1,275,138	414,509	134,672	12,754	12,461

Proposed Allocations	Oil	Gas	Water
Paddock	76%	25%	84%
Tubb	8%	57%	8%
Abo	16%	18%	8%
TOTAL	100%	100%	100%



AFE No: PA- 11- 0566

JG Hare #17

API #: 30-025-39285
990' FSL & 480' FWL
Section 33, Township 21S, Range 37E
Lea County, New Mexico

Completion Procedure – Paddock-Tubb-Abo

27 September 2011

Recommended Procedure:

Note: 5-1/2", 17#, J-55 & L-80 csg set @ 7200' w/1325 sx cmt. (Circ 11 sx).
(941' of L-80 csg on top). PBTD @ +/-7156'.

Abo:

1. MIRU PU. Install BOP. Pressure test csg.
2. MIRU wireline unit. Run GR/CCL/CBL log from PBTD +/- 7156' to surface. Correlate to Weatherford Photo Density/Compensated Neutron/Spectral Gamma Ray log dated 9/24/11.
3. Perforate the Abo interval @ 6682', 6709', 23', 37', 39', 41', 43', 45', 47', 56', 60', 67', 69', 75', 85', 92', 6801', 11', 23', 25', 31', 42', 45', 47', 57', 59', 64', 81', 85', 6917', 19', 35', 41', 45', 65', 89', 7000', 15', 40', 42', 44', 49', 55', 60' & 69' w/1 spf, 120 degree phasing. Total = 45 shots.
4. RIH w/pkr & 2-7/8" tbg. Set pkr @ +/- 6600'.
5. Acidize Abo interval 6682' – 7069' 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 perfs 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 @ 6011', 17', 20', 65', 69', 72', 75', 81', 89', 91', 93', 95', 6109', 15', 17', 19', 25', 30', 32', 34', 36', 38', 42', 47', 49', 51', 57', 59', 61', 63', 69', 71', 73', 75', 77', 81', 83', 85', 6221' & 23' w/2 spf, 120 degree phasing. (Total : 80 shots).
2. RIH w/2-7/8" tbg and pkr. Set pkr @ +/- 5900'.
3. Acidize the Tubb interval w/3,000 gals 15% HCL-NE-FE BXDX acid and ball sealers.
4. Release pkr and run through perfs 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/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.
7. Spot 1,000 gals 15% HCL from 5300' – 4300' during Tubb frac flush.
8. RIH and set a composite bridge plug above the Tubb interval @ +/- 5900'.

Paddock:

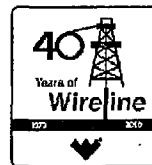
1. Perforate the Paddock interval @ 5114' – 20', 5132' – 38', 5150' – 60', 5174' – 88', 5204' – 12', 5230' – 36', 5250' – 58', 5266' – 74', 5278' – 86' & 5290' – 96' w/1 spf, 120 degree phasing. (Total : 90 shots).
2. Acidize the Paddock interval w/4,000 gals 15% HCL acid and ball sealers.
3. RIH w/junk basket and run through perms 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 @ +/-7100'. RIH w/1-1/2" pump & rods.
8. Install 640 PU.
9. Place well in test.

**Weatherford®**

Marked

**PHOTO DENSITY
COMPENSATED NEUTRON
SPECTRAL GAMMA RAY**

COMPANY **APACHE CORPORATION**
 WELL **JG HARE #17**
 FIELD **EUNICE AREA**
 PROVINCE/COUNTY **LEA**
 COUNTRY/STATE **U.S.A. / NEW MEXICO**
 LOCATION **990' FSL & 330' FWL 480'**
SEC. 33, T21S, R37E



SEC 33	TWP 21S	RGE 37E	Other Services DUAL LATEROLOG COMPENSATED SONIC
API Number 30-025-39285			MICRO LATEROLOG
Permit Number			

Permanent Datum GROUND LEVEL, Elevation 3458 feet	Elevations: feet
Log Measured From KB	KB 3469.00
Drilling Measured From K.B.	DF 3468.00
	GL 3858.00

Date	24-SEP-2011		
Run Number	ONE		
Depth Driller	7200.00	feet	
Depth Logger	7200.00	feet	
First Reading	7155.00	feet	
Last Reading	100.00	feet	
Casing Driller	1263.00	feet	
Casing Logger	1265.00	feet	
Bit Size	7.875	inches	
Hole Fluid Type	CHEM.		
Density / Viscosity	10.00 lb/USg	29.00 sec/qt	
PH / Fluid Loss	10.00	8.00 ml/30Min	
Sample Source	FLOWLINE		
Rm @ Measured Temp	0.045 @ 80.0	ohm-m	
Rmf @ Measured Temp	0.033 @ 80.0	ohm-m	
Rmc @ Measured Temp	0.056 @ 80.0	ohm-m	
Source Rmf / Rmc	CALC.	CALC.	
Rm @ BHT	0.032 @ 110.0	ohm-m	
Time Since Circulation	6 HOURS		
Max Recorded Temp	110.00	deg F	
Equipment Name	COMPACT		
Equipment / Base	13239	ODESSA	
Recorded By	JOHN WELLS		
Witnessed By	ROBERT JOHNSON VIA E-MAIL		
SO#	3532090		

