

District I
1625 N. French Dr., 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

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OCT 08 2010

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State of New Mexico
Energy Minerals and Natural Resources

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

Form C-101
June 16, 2008

Submit to appropriate District Office

☐ AMENDED REPORT

APPLICATION FOR PERMIT TO DRILL, RE-ENTER, DEEPEN, PLUGBACK, OR ADD A ZONE

¹ Operator Name and Address Apache Corp 303 Veterans Airpark Ste 3000 Midland TX 79705		² OGRID Number 873
		³ API Number 30 - 025-34388
⁴ Property Code 22880	⁵ Property Name Turner	⁶ Well No. 018
⁹ Proposed Pool 1 Paddock (49210)		¹⁰ Proposed Pool 2 Penrose Skelly; Grayburg (50350)

7 Surface Location

UL or lot no. N	Section 22	Township 21S	Range 37E	Lot Idn	Feet from the 330	North/South line South	Feet from the 2310	East/West line West	County Lea
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8 Proposed 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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Additional Well Information

¹¹ Work Type Code X	¹² Well Type Code O	¹³ Cable/Rotary R	¹⁴ Lease Type Code P	¹⁵ Ground Level Elevation 3404'
¹⁶ Multiple Y	¹⁷ Proposed Depth 5350' TD	¹⁸ Formation Grayburg/Paddock	¹⁹ Contractor Open	²⁰ Spud Date Open

21 Proposed Casing and Cement Program

Hole Size	Casing Size	Casing weight/foot	Setting Depth	Sacks of Cement	Estimated TOC
11"	8-5/8"	24#	400'	150 sx	Circ
7-7/8"	5-1/2"	17#	5350'	1290 sx	Circ

²² Describe the proposed program. If this application is to DEEPEN or PLUG BACK, give the data on the present productive zone and proposed new productive zone. Describe the blowout prevention program, if any. Use additional sheets if necessary.

This well was completed in the Paddock 5/29/98 and is currently producing from Paddock perms 5047'-5268'. Apache proposes to recomplete to include the Grayburg, per the attached procedure:

**Permit Expires 2 Years From Approval
Date Unless Drilling Underway**
Adding

²³ I hereby certify that the information given above is true and complete to the best of my knowledge and belief.

Signature:

Reesa Holland

Printed name: Reesa Holland

Title: Sr. Engineering Tech

E-mail Address: Reesa.Holland@apachecorp.com

Date: 10/05/2010

Phone: 432/818-1062

OIL CONSERVATION DIVISION

Approved by:

[Signature]

Title:

PETROLEUM ENGINEER

Approval Date:

OCT 13 2010

Expiration Date:

Oil Conservation Division

Conditions of approval : Approval for drilling/workover ONLY--- CANNOT produce Downhole Commingled until DHC is approved in Santa Fe.



AFE No: TW- 10- 4239

Turner #18

API #: 30-025-34388

330' FSL & 2310' FWL

Section 22, Township 21S, Range 37E

Lea County, New Mexico

Recomplete to Grayburg & DHC w/Paddock

6 October 2010

Recommended Procedure:

1. MIRU pulling unit. POOH w/rods & pump. POOH w/2-7/8" prod tbg.
2. RIH w/4-3/4" bit & 5-1/2" x 15.5# csg scraper on 2-7/8" ws to 5000'. POOH.
3. RIH w/RBP & pkr on 2-7/8" ws. Set RBP @ +/-5000'. Test RBP w/pkr. POOH w/pkr. Dump 2 sx sd on RBP @ 5000'.
4. MIRU wireline service.
5. Perf (Grayburg) : 3673', 80', 89', 97', 3715', 21', 48', 50', 52', 59', 68', 73', 85', 89', 95', 97', 99', 3812', 19', 21', 23', 25', 27', 29', 39', 41', 43', 51', 58', 60', 62', 64', 69', 71', 73', 75', 77', 79', 81' & 83' w/2 spf, 120 deg phasing. (Total 80 shots). Correlate to Schlumberger Platform Express Compensated Neutron/Three Detector LithoDensity Log dated May 19, 1998.
6. RIH w/RBP & pkr on 2-7/8" ws. Set RBP @ +/-3950'. Set pkr @ +/- 3575'.
7. Acidize Grayburg interval w/3,000 gals 15% HCL-NE-FE acid and ball sealers.
8. Release pkr & run through perfs to knock off balls. POOH w/tbg & pkr.
9. Rig up Frac Company. Frac Grayburg interval w/100,000# 20/40 resin coated sand. (2-6 ppg ramp).
10. TIH w/retrieving head on 2-7/8" ws. Clean well out to RBP @ 3950'. Release RBP & POOH.
11. RIH w/RH, SN & 2-7/8" prod tbg. Land SN @ +/-3925'. RIH w/pump & rods.
12. Place well in test. Report results to Midland office.
13. Obtain DHC permit after Grayburg production stabilizes.
14. MIRU pulling unit. POOH w/rods & pump.
15. Lower tbg to RBP @ 5000'. Release RBP & POOH.
16. RIH w/SN & 2-7/8" prod tbg. Land SN @ +/- 5300'. RIH w/pump & rods.
17. RTP Grayburg/Paddock DHC.

Present

WELL DATA SHEET

Last Update: 7-7-10

Lease Name: Turner #18

API No: 30-025-34388

Location: 330°S/23°10'W
Unit N, Sec 22, T-21S, R-37E

County: Lea ST: NM

Spud Date: 5-11-98 Well Elev: 3405' GL 11' KB

TD Date: 5-19-98 Completion Date: 5-29-98

TD: 5350' PBD: 5320' TOC: Circ.

Csg Size: 8 5/8" Wt: 24# Grd: J-55 Dpth: 402' Cmt: 150 sk (Circ)

Producing Formation: Glorietta / Paddock

Perfs: From 5047' to 5104' 4/spf _____ to _____

5114' to 5268' 4/spf _____ to _____

IP: _____ BOPD _____ BWPD _____ MCF/D

Well History: (See Attached)

Glorietta

5047-54'

5062-70'

5076-79'

5100-04'

Paddock

5114-22'

5124-30'

5137-50'

5156-60'

5174-5200'

5220-68'

Well Equipment:

Pumping Unit: _____

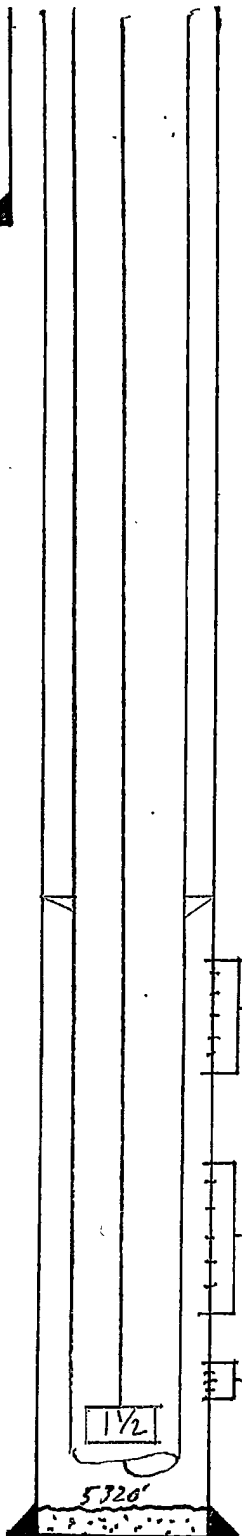
Motor Type: _____ HP: _____ POC: _____

Tbg: 167 Jts 2 7/8" Size 6.5" Grade J-55

MA @ _____ SN @ 5303 TAC @ 4977' (6-5-10)

Rods: 45-14"KD + 63-1/8"KD + 88-3/4"KD + 12-1"KD

Pump: 2" X 1 1/2" X 20' R11Bc (6-5-10)



TD: 5350'

Csg Size: 5 1/2" Wt: 14/15.5# Grd: J-55 Dpth: 5350' Cmt: 1290 sk (Circ)

Proposed

WELL DATA SHEET

Last Update: 10-5-10

Lease Name: Turner #18

API No: 30-025-34388

Location: 330°S/23°10'W
Unit N, Sec 22, T-21S, R-37E

County: Lea ST: NM

Spud Date: 5-11-98 Well Elev: 3404' GL 11' KB

TD Date: 5-19-98 Completion Date: 5-29-98

TD: 5350' PBD: 5000' TOC: Circ.

Csg Size: 8 5/8" Wt: 24# Grd: J-55 Dpth: 402' Cmt: 150.52(Circ)

Producing Formation: Grayburg

Perfs: From 3673' to 3883' 2/spf _____ to _____
_____ to _____ spf _____ to _____

IP: _____ BOPD _____ BWPD _____ MCF/D

Well History: (See Attached)

Well to be downhole commingled
after Grayburg rate stabilizes

Well Equipment:

Pumping Unit: _____

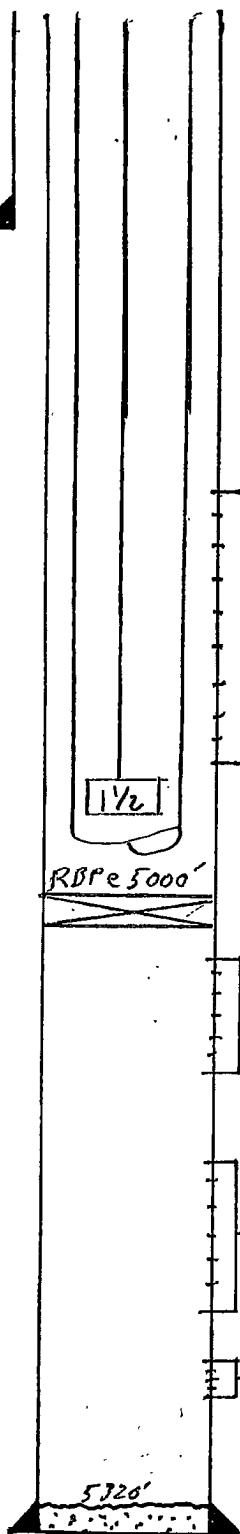
Motor Type: _____ HP: _____ POC: _____

Tbg: 5 1/2" Jts 2 7/8" Size 6.5" Grade J-55

MA @ _____ SN @ 3950' TAC @ _____

Rods: 45-1" KD + 63-7/8" KD + 50-3/4" KD

Pump: 2" x 1 1/2" x 24" R4DC



TD: 5350'

Csg Size: 5 1/2" Wt: 14/15.5# Grd: J-55 Dpth: 5350' Cmt: 1290.52(Circ)

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OCT 05 2010

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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 30-025-34388		2 Pool Code 49210		3 Pool Name Paddock	
4 Property Code 22880		5 Property Name Turner			6 Well Number 018
7 OGRID No. 873		8 Operator Name Apache Corporation: 303 Veterans Airpark Lane, Suite 3000 Midland, TX 79705			9 Elevation 3404'

10 Surface Location

UL or lot no. N	Section 22	Township 21S	Range 37E	Lot Idn 330	Feet from the South	North/South line South	Feet from the 2310	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. R-10026-A			

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> <u>Reesa Holland</u> 10/05/2010 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:	
2310'				Certificate Number	

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Revised October 12, 2005
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WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-025-34388		² Pool Code 50350	³ Pool Name Penrose Skelly; Grayburg
⁴ Property Code 22880	⁵ Property Name Turner		⁶ Well Number 018
⁷ OGRID No. 873	⁸ Operator Name Apache Corporation: 303 Veterans Airpark Lane, Suite 3000 Midland, TX 79705		⁹ Elevation 3404'

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
N	22	21S	37E	330		South	2310	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. R-10026-A					

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.

<div style="text-align: center;">16</div>	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> <div style="display: flex; justify-content: space-between;"> <div> </div> <div>10/05/2010</div> </div> <div style="display: flex; justify-content: space-between;"> <div>Signature</div> <div>Date</div> </div> <div>Reesa Holland</div> <div>Printed Name</div>	
	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>	
	<div>Date of Survey</div> <div>Signature and Seal of Professional Surveyor:</div> <div>Certificate Number</div>	