

DATE IN <u>8.30.11</u>	SUSPENSE	ENGINEER <u>WVJ</u>	LOGGED IN <u>8.30.11</u>	TYPE <u>DHC</u>	APP NO. <u>1124229770</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

RECEIVED UCD

Turner #33
30-025-40177

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]

fel
Lea

[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.

<u>REESA HOLLAND</u> Print or Type Name	<u>Reesa Holland</u> Signature	<u>SR ENGR TECH</u> Title	<u>8/23/2011</u> Date
		<u>Reesa.Holland@apachecorp.com</u> e-mail Address	

(TURNER #33)

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
Turner 033 J 22 21S 37E Lea
Lease Well No. Unit Letter-Section-Township-Range County
OGRID No. 873 Property Code 22880 API No. 30-025-40177 Lease Type: ☐ Federal ☒ State ☐ Fee

DATA ELEMENT	UPPER ZONE	INTERMEDIATE ZONE	LOWER ZONE
Pool Name	Penrose Skelly; Grayburg		Paddock
Pool Code	50350		49210
Top and Bottom of Pay Section (Perforated or Open-Hole Interval)	3725'-3905' (Est Perf)		5155'-5345' (Est Perf)
Method of Production (Flowing or 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
Oil Gravity or Gas BTU (Degree API or Gas BTU)	API		API
Producing, Shut-In or New Zone	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: SEE ATTACHED Rates:	Date: 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 21 % 36 %	Oil Gas % %	Oil Gas 79 % 64 %

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. Engineering Tech DATE 8/23/2011

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

E-MAIL ADDRESS Reesa.Holland@apachecorp.com

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Rd., Aztec, NM 87410
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1220 S. St. Francis Dr., Santa Fe, NM 87505

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 30-025-40177	² Pool Code 50350	³ Pool Name Penrose Skelly; Grayburg
⁴ Property Code 22880	⁵ Property Name Turner	⁶ Well Number 033
⁷ OGRID No. 873	⁸ Operator Name Apache Corporation: 303 Veterans Airpark Lane, Suite 3000 Midland, TX 79705	⁹ Elevation 3408'

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
J	22	21S	37E		1550	South	2550	East	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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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> 08/23/2011 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

District I

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1301 W. Grand Avenue, Artesia, NM 88210

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State of New Mexico

Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION

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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

¹ API Number 30-025-40177	² Pool Code 49210	³ Pool Name Paddock
⁴ Property Code 22880	⁵ Property Name Turner	⁶ Well Number 033
⁷ OGRID No. 873	⁸ Operator Name Apache Corporation: 303 Veterans Airpark Lane, Suite 3000 Midland, TX 79705	⁹ Elevation 3408'

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
J	22	21S	37E		1550	South	2550	East	Lea

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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 hereafter entered by the division.</i> <u>Reesa Holland</u> 08/23/2011 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	



August 23, 2011

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

RE: Application for Exception for Downhole Commingling
Turner #33 – API 30-025-40177
Unit J, Section 22, T21S, R37E
Penrose Skelly; Grayburg (50350) and Paddock (49210) Pools
Lea County, New Mexico

Dear Mr. Jones:

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 nor will it reduce the value of the total remaining production. 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.

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 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".

Reesa Holland
Sr. Engineering Technician

Lease Name	Well Number	10DIGIT API	Location	Cum Oil (BBL)		Cum Gas (BBL)		Cum Water (BBL)	
				Grayburg	Paddock	Grayburg	Paddock	Grayburg	Paddock
STATE S	1	3002506586	15D 21S 37E NW NW	57694		401653		57177	
L G WARLICK C	7	3002506598	15O 21S 37E SW SW SE	3631		26385		23515	
ARGO	8	3002506604	15N 21S 37E E2 SE SW	7773	7004	67344	71100	72803	202541
ARGO	11	3002506607	15K 21S 37E NE SW	28351		254396		247498	
ARGO	12	3002506608	15M 21S 37E SW SW SW	10425		144871		96922	
STATE S	2	3002506609	15C 21S 37E C NE NW	28358		90945		2473	
STATE S	4	3002506611	15A 21S 37E E2 NE NW	41250		241034		31499	
STATE S	5	3002506612	15D 21S 37E NW NW	20232		1005252		1098925	
STATE DA	5	3002506617	16I 21S 37E	4461	10432	25335	71140	30675	295471
HARRY LEONARD NCT E	1	3002506620	16G 21S 37E C SW NE	50683		402063		141942	
HARRY LEONARD NCT E	3	3002506622	16B 21S 37E C NW NE	68442		551239		107719	
HARRY LEONARD NCT E	5	3002506624	16H 21S 37E SE SE NE	72673		532877		192193	
STATE C TRACT 12	3	3002506625	16E 21S 37E SW NW	21624		180821		8723	
STATE LAND 15	1	3002506630	16M 21S 37E C SW SW	34439		510127		46243	
STATE LAND 15	2	3002506631	16N 21S 37E C SE SW	7858		181022		61679	
M E WANTZ	4	3002506698	21J 21S 37E		339090		1820922		447307
M E WANTZ	7	3002506699	21N 21S 37E		135148		790038		310866
M E WANTZ	10	3002506704	21K 21S 37E		9460		104449		276928
M E WANTZ	3	3002506707	21P 21S 37E		195258		823414		519043
M E WANTZ	2	3002506708	21O 21S 37E		184647		727825		259570
M E WANTZ	6	3002506709	21M 21S 37E	45247	59388		336757		240567
MARY WANTZ	2	3002506711	21L 21S 37E	39199					
WEATHERLY	1	3002506712	21E 21S 37E	26065					
WEATHERLY	2	3002506720	21D 21S 37E	26674		267243		17475	
EUBANK	5	3002506731	22B 21S 37E	1886		5556		13648	
EUBANK	7	3002506733	22B 21S 37E NW NW NE		994		28204		576167
ARGO A	11	3002506736	22F 21S 37E		5720		3460		18090
ARGO A	6	3002506738	22C 21S 37E NE NE NW	9232	7624	71850	66433	128500	179113
ARGO A	7	3002506739	22E 21S 37E NE SW NW	11641	13316	189484		157836	
ARGO A	8	3002506740	22D 21S 37E SE NW NW	9316	9794	180961	116113	152399	213608
ARGO A	9	3002506741	22D 21S 37E SW NW NW		2470		32495		36416
TURNER	4	3002506746	22M 21S 37E W2 SW SW	29709	27196	557549	232955	177545	175676
TURNER	8	3002506750	22L 21S 37E SW NW SW	13344		240078		132246	
TURNER	11	3002506753	22N 21S 37E NW SE SW	25808	47042	250790	443388	149285	638473
TURNER	14	3002506756	22J 21S 37E NW NW SE		4059		46322		81729
TURNER	16	3002506758	22M 21S 37E	8308	4239	89680		5671	
S J SARKEYS 26	1	3002506791	26E 21S 37E C SW NW	12707		42300		114330	
S J SARKEYS 26	2	3002506792	26D 21S 37E C NW NW	12948		133840		277457	
S J SARKEYS 26	3	3002506793	26C 21S 37E C NE NW	6170		2009		24275	
LOCKHART A 27	10	3002506795	27G 21S 37E		37613		512835		120123
LOCKHART A 27	11	3002506797	27H 21S 37E		98		416		
LOCKHART A 27	4	3002506798	27D 21S 37E		9741		39506		14232
LOCKHART A 27	13	3002506799	27E 21S 37E		59878		1043238		144716
LOCKHART A 27	2	3002506801	27F 21S 37E		58790		1182036		175234
LOCKHART A 27	6	3002506804	27B 21S 37E		205715		1448126		272943
LOCKHART A 27	8	3002506805	27D 21S 37E S2 NW NW	13387	135	203054	150	85192	829
LOCKHART A 27	7	3002506806	27C 21S 37E		88706		1517469		161072
LOCKHART A 27	3	3002506807	27E 21S 37E W2 SW NW	7669		92278		142455	
F F HARDISON B	6	3002506809	27J 21S 37E NW SE		19397		61122		43530
F F HARDISON B	9	3002506812	27O 21S 37E		215				
J N CARSON NCT A	5	3002506814	28J 21S 37E		74158		388095		17419
J N CARSON NCT A	8	3002506815	28O 21S 37E		209860		851800		49969
J N CARSON NCT A	10	3002506816	28J 21S 37E NW SE	17129		494403		227634	
J N CARSON NCT A	11	3002506817	28K 21S 37E NE NE SW		387238		1641733		119886
MARSHALL B	3	3002506820	27K 21S 37E NE SW	17797	58695	128025	379825	41217	159466
MARSHALL B	4	3002506821	27L 21S 37E C NW SW	19424	72993	167365	526533	78717	280183
MARSHALL B	5	3002506823	27N 21S 37E		276277		510898		295209
MARSHALL B	6	3002506824	27M 21S 37E		359879		1652954		106377
MARSHALL B	8	3002506825	27L 21S 37E	18458		204182		214648	
MARSHALL B	9	3002506826	27K 21S 37E NW NE SW	3824	564	95818	2118	36012	917
MARSHALL A	1	3002506827	27M 21S 37E C SW SW	14678					
J N CARSON B	13	3002506828	28J 21S 37E	64153		47705		638	
J N CARSON B	12	3002506829	28O 21S 37E	49793					
J N CARSON NCT A	1	3002506830	28K 21S 37E C NE SW	169926		1188462		165308	
J N CARSON NCT C	6	3002506833	28P 21S 37E SW SE SE	32230		318458		12023	
J N CARSON NCT C	7	3002506834	28P 21S 37E		406069		900171		16988
J N CARSON NCT C	8	3002506835	28I 21S 37E	17374		412805		343658	
J N CARSON NCT C	9	3002506836	28I 21S 37E	45249	55255	230619	349615	6885	87229
EUNICE KING	1	3002506837	28E 21S 37E C SW NW	190886		1384060		382925	
EUNICE KING	2	3002506838	28D 21S 37E	62336		337231		81477	
EUNICE KING	3	3002506839	28F 21S 37E C SE NW	122899		1101478		252119	

Lease Name	Well Number	10DIGITAL	Location	Cum Oil (BBL)		Cum Gas (BBL)		Cum Water (BBL)	
				Grayburg	Paddock	Grayburg	Paddock	Grayburg	Paddock
EUNICE KING	6	3002506842	28D 21S 37E SW NW NW	32394		284084		15779	
EUNICE KING	7	3002506843	28G 21S 37E	47825	135661	647263	603851	180483	79198
EUNICE KING	8	3002506844	28H 21S 37E C SE NE	15838	1085	477128	18869	384492	5192
EUNICE KING	10	3002506846	28B 21S 37E C NW NE		243079		672745		26098
EUNICE KING	11	3002506847	28B 21S 37E NW NW NE	83332		719590		106240	
EUNICE KING	12	3002506848	28A 21S 37E C NE NE	32263	48489	548659	185125	213054	28369
EUNICE KING	15	3002506852	28F 21S 37E SE SE NW		48844		156313		27733
EUNICE KING	16	3002506853	28A 21S 37E	189695		93994		11024	
EUNICE KING	17	3002506854	28C 21S 37E		421262		1686786		263549
EUNICE KING	18	3002506855	28E 21S 37E		9101		150824		313427
EUNICE KING	19	3002506856	28C 21S 37E C NE NW	14397	57736	540166	257131	164510	15985
EUNICE KING	20	3002506857	28F 21S 37E NE SE NW		450361		901443		330769
EUNICE KING	25	3002506865	28D 21S 37E SE NW NW		10936		45825		14207
EUNICE KING	26	3002506866	28H 21S 37E NW SE NE	12229	8731	71564	35767	25877	35720
E O CARSON	4	3002506869	28N 21S 37E	96636		189105		4757	
E O CARSON	18	3002506872	28M 21S 37E E2 SW SW	54454	76126	177026	540231	51913	121661
UNIT	116	3002506873	28L 21S 37E	62089					
E O CARSON	20	3002506874	28N 21S 37E		213587		1252666		226941
E O CARSON	21	3002506875	28L 21S 37E		60364		273277		196353
E O CARSON	22	3002506876	28L 21S 37E		23854		34871		25384
ARGO	7	3002509915	15L 21S 37E NE NW SW	509		731		28574	
MARSHALL	1	3002509934	27N 21S 37E	10150					
E O CARSON	26	3002524268	28L 21S 37E SW NW SW	8295		412533		121952	
HARRY LEONARD NCT E	6	3002525198	16A 21S 37E NE NE NE	70033		495470		75365	
WEATHERLY 21	3	3002526453	21G 21S 37E W2 SW NE	12443		251059		194121	
LANSFORD	2	3002527271	21K 21S 37E	60623		1094348		68214	
LANSFORD	3	3002527396	21O 21S 37E	55403		405161		121106	
LANSFORD	5	3002527866	21J 21S 37E	29197		246666		93001	
LANSFORD	6	3002527879	21P 21S 37E	35281		285330		104040	
LOCKHART A 27	14	3002532169	27A 21S 37E NE NE		114424		548769		170688
STATE DA	6	3002534245	16L 21S 37E NW SW	25198		652329		249396	
TURNER	17	3002534322	22O 21S 37E SW SE		81504		624993		303122
TURNER	18	3002534388	22N 21S 37E SE SW	6531	108200	20229	1080817	19830	452354
TURNER	20	3002534592	22P 21S 37E SE SE		41175		391571		176523
WEATHERLY 21	1	3002535173	21G 21S 37E SW SW NE	25416	3	81551	497	40986	
STATE C TRACT 12	8	3002535515	16D 21S 37E E2 NW NW	38984		406457		81663	
STATE DA	7	3002535516	16K 21S 37E SE NE SW	20825		557815		201497	
WEATHERLY 21	2	3002535523	21B 21S 37E SW NW NE	5684		85337		8638	
STATE C TRACT 12	9	3002535707	16C 21S 37E NW NE NW	19971		454128		228518	
STATE C TRACT 12	10	3002535708	16F 21S 37E NW SE NW	30836		328239		117724	
STATE C TRACT 12	11	3002535709	16E 21S 37E W2 SW NW	41445		497779		67136	
STATE DA	8	3002535765	16J 21S 37E W2 NW SE	16973		174296		108540	
TURNER	19	3002535830	22J 21S 37E NW SE	1280	21493	11873	247099	7107	449600
STATE S	10	3002536020	15B 21S 37E NE NW NE	19320		66314		33852	
STATE S	11	3002536021	15A 21S 37E SE NE NE	13531		62532		66711	
ARGO A	13	3002536039	22F 21S 37E NW SE NW	20524		202678		146234	
STATE C TRACT 12	13	3002536095	16C 21S 37E NE NE NW	45816		374240		70015	
STATE C TRACT 12	12	3002536115	16E 21S 37E NW SW NW	17645		385062		220778	
STATE C TRACT 12	15	3002536478	16C 21S 37E SW NE NW	19086		233168		228728	
STATE C TRACT 12	17	3002536613	16C 21S 37E SE NE NW	30354		333931		42547	
STATE C TRACT 12	18	3002536614	16E 21S 37E SE SW NW	12637		336666		86000	
STATE DA	9	3002536617	16L 21S 37E NW NW SW	7744		436133		144157	
STATE C TRACT 12	16	3002536618	16D 21S 37E NE NW NW	22734		270346		68990	
WEATHERLY 21	4	3002536640	21F 21S 37E SE SE NW	12139		524233		11503	
WEATHERLY 21	5	3002536646	21C 21S 37E NE NE NW	11404		208920		14311	
STATE C TRACT 12	19	3002536725	16F 21S 37E SE SE NW	12697		229739		96613	
EUNICE KING	27	3002536738	28C 21S 37E SW NE NW	14658		675735		206748	
EUNICE KING	28	3002536739	28B 21S 37E SE NW NE	26353		426972		205804	
HARRY LEONARD NCT E	7	3002536741	16H 21S 37E NW SE NE	45489		456537		91394	
STATE DA	10	3002536786	16J 21S 37E NE NW SE	11332		191812		57176	
STATE DA	11	3002536787	16K 21S 37E SW NE SW	19444		589061		119665	
EUNICE KING	29	3002537187	28F 21S 37E NE SE NW	19684		347541		97962	
TURNER	22	3002537203	22K 21S 37E C NE SW	7755		127591		173995	
STATE LAND 15	7	3002537364	16M 21S 37E SW SW SW	11248		451240		92170	
STATE LAND 15	8	3002537365	16N 21S 37E SW SE SW	7545		427796		109714	
STATE LAND 15	13	3002537482	16O 21S 37E SW SW SE	14299		244784		74396	
STATE LAND 15	12	3002537496	16P 21S 37E SW SE SE	16064		262767		81748	
MARSHALL B	13	3002537592	27N 21S 37E N2 SE SW	17650		302778		1542113	
L G WARLICK C	11	3002537767	15O 21S 37E NE SW SE	12331		33005		26376	
EUNICE KING	30	3002537831	28D 21S 37E NE NW NW	10378		290065		55130	
EUNICE KING	31	3002537832	28B 21S 37E NW NW NE	10701		385938		42106	

Turner #33
API 30-025-40177
Apache Corp.

Lease Name	Well Number	10DIGIT API	Location	Cum Oil (BBL)		Cum Gas (BBL)		Cum Water (BBL)	
				Grayburg	Paddock	Grayburg	Paddock	Grayburg	Paddock
HARRY LEONARD NCT E	8	3002537834	16H 21S 37E SE SW NE	23978		293281		85133	
STATE DA	14	3002537864	16L 21S 37E SW NW SW	10149		274013		50195	
MARSHALL B	11	3002537895	27L 21S 37E NE NW SW	24364		224028		43566	
STATE DA	13	3002537916	16I 21S 37E SW NE SE	9338		272194		82653	
EUNICE KING	32	3002538336	28A 21S 37E NW NE NE	12915		225711		75171	
EUNICE KING	33	3002538337	28F 21S 37E SW SE NW	5504		478238		53092	
STATE LAND 15	16	3002538378	16O 21S 37E NE SW SE	11354		173262		71047	
TURNER	23	3002538685	22P 21S 37E SE SE SE	13148		159889		139323	
WEATHERLY	12	3002538799	21D 21S 37E SW NW NW	5294		114234		56001	
EUNICE KING	34	3002539004	28F 21S 37E SE SE NW	5741		137309		62381	
ELLIOTT A	10	3002539151	21A 21S 37E E2 NE NE	7532		163657		55200	
EUNICE KING	35	3002539203	28D 21S 37E SW NW NW	5390		237341		107798	
E O CARSON	28Y	3002539237	28N 21S 37E NW SE SW	11225		311898		245636	
STATE LAND 15	17	3002539449	16P 21S 37E NE SE SE	4576		64903		29494	
TURNER	27	3002539462	22O 21S 37E NW SW SE	6589		59315		30087	
TURNER	21	3002539552	22O 21S 37E	9348		41148		26112	
MARSHALL B	12	3002539556	27L 21S 37E	4315		27277		9430	
ARGO	13	3002539557	15M 21S 37E	2911		46478		24035	
STATE LAND 15	18	3002539605	16O 21S 37E	2459		35017		11921	
STATE LAND 15	19	3002539606	16M 21S 37E	3117		33305		16987	
ARGO A	14	3002539686	22D 21S 37E	1676		22756		13415	
TURNER	29	3002539692	22J 21S 37E	810		14783		17320	
TURNER	25	3002539825	22L 21S 37E NW SW	4258		26094		16075	
ARGO A	15	3002539826	22F 21S 37E SE NW	2026		11448		9394	
ARGO	14	3002539828	15K 21S 37E	2117		10073		12204	
ARGO	15	3002539829	15N 21S 37E SE SW	1792		10977		7780	
TOTALS				3,442,077	5,620,172	35,608,770	28,433,125	14,295,484	9,800,760
AVERAGES				26,076	95,257	284,870	507,734	114,364	181,496

Proposed Allocations	Oil	Gas	Water
Grayburg	21%	36%	39%
Paddock	79%	64%	61%
TOTAL	100%	100%	100%

AFE No: PA- 11- 0480

Turner #33

API #: 30-025-40177

1550' FSL & 2550' FEL

Section 22, Township 21S, Range 37E

Lea County, New Mexico

Completion Procedure – Grayburg - Paddock

18 August 2011

Recommended Procedure:

Note: 5-1/2", 17#, J-55 csg set @ 5704' w/1045 sx cmt. (Circ 25 sx cmt).

Paddock:

1. MIRU PU on correct well. Install BOP. Pressure test csg.
2. MIRU wireline truck. Run GR/CCL/CBL log from PBTD +/- 5658' to surface. Correlate to Weatherford Compensated Photo Density/Compensated Neutron/Spectral Gamma Ray log dated 8/16/11.
3. Perforate the Paddock formation @ 5155', 57', 61', 63', 65', 67', 69', 71', 73', 75', 77', 83', 85', 87', 89', 95', 5201', 03', 05', 07', 09', 11', 13', 20', 24', 28', 44', 46', 51', 57', 59', 61', 63', 65', 67', 69', 71', 73', 75', 77', 79', 81', 83', 5321', 23', 31', 33', 35', 37' & 45' w/1 spf, 120 deg phasing. Total = 50 shots.
4. RIH 2-7/8" tbg and pkr. Set pkr @ +/- 5050'.
5. Acidize Paddock interval with 4,200 gals 15% HCL-NE-FE BX DX acid and ball sealers.
6. Release pkr & run through perfs to knock off balls. POOH.
7. MIRU frac equipment. Pump 1 drum of corrosion inhibitor followed by 10 bbl pad of 2% KCL. Pump 2 drums scale inhibitor and flush w/10 bbls of 2% KCL.
8. Frac Paddock w/150,000# 20/40 resin coated sand (SLC, SB Excel or equivalent) down 5-1/2" csg @ 40 BPM in 30# XL gel as per frac recommendation.
9. Spot 1,000 gals 15% HCL across Grayburg interval 3900' – 2900' during Paddock frac flush.
10. RIH and set composite bridge plug above the Paddock interval @ +/- 5000'.

Grayburg:

1. Perforate the Grayburg formation @ 3725', 73', 75', 77', 93', 3805', 10', 13', 15', 22', 43', 45', 51', 63', 65', 67', 87', 97', 99' & 3905' w/2 spf, 120 deg phasing. Total 40 shots.
2. Acidize Grayburg with 3,000 gals 15% HCL and ball sealers.
3. RIH w/gauge ring & junk basket to knock off balls. POOH.
4. Pump 1 drum of 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 Grayburg interval w/100,000# 20/40 resin coated sand (SLC, SB Excel or equivalent) down 5-1/2" csg @ 40 BPM in 30# XL gel as per frac rec.
6. RIH w/2-7/8" tbg and bit. Clean well out to PBTD @ +/-5658'.
7. RIH w/2-7/8" production tubing. Land SN @ +/-5350'. RIH w/1-1/2" pump & rods.
8. Install 456 PU.
9. Place well in test.

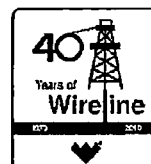
Marked



Weatherford[®]

**COMPENSATED PHOTO DENSITY
COMPENSATED NEUTRON
SPECTRAL GAMMA RAY**

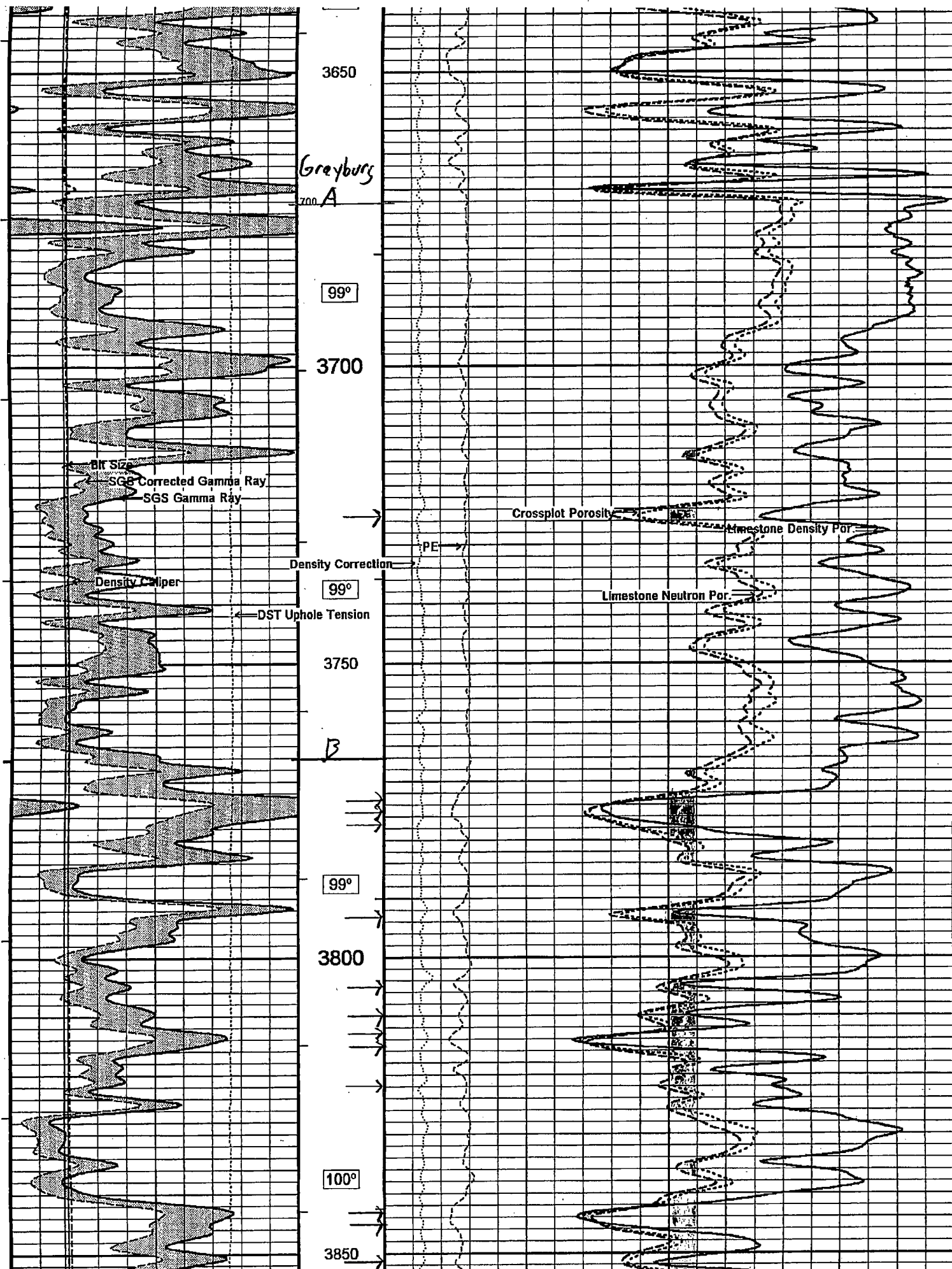
COMPANY **APACHE CORPORATION**
WELL **TURNER No. 33**
FIELD **PENROSE SKELLY**
PROVINCE/COUNTY **LEA**
COUNTRY/STATE **U.S.A / NEW MEXICO**
LOCATION **1550' FSL & 2550' FEL
SEC 22, T-21-S R37E**

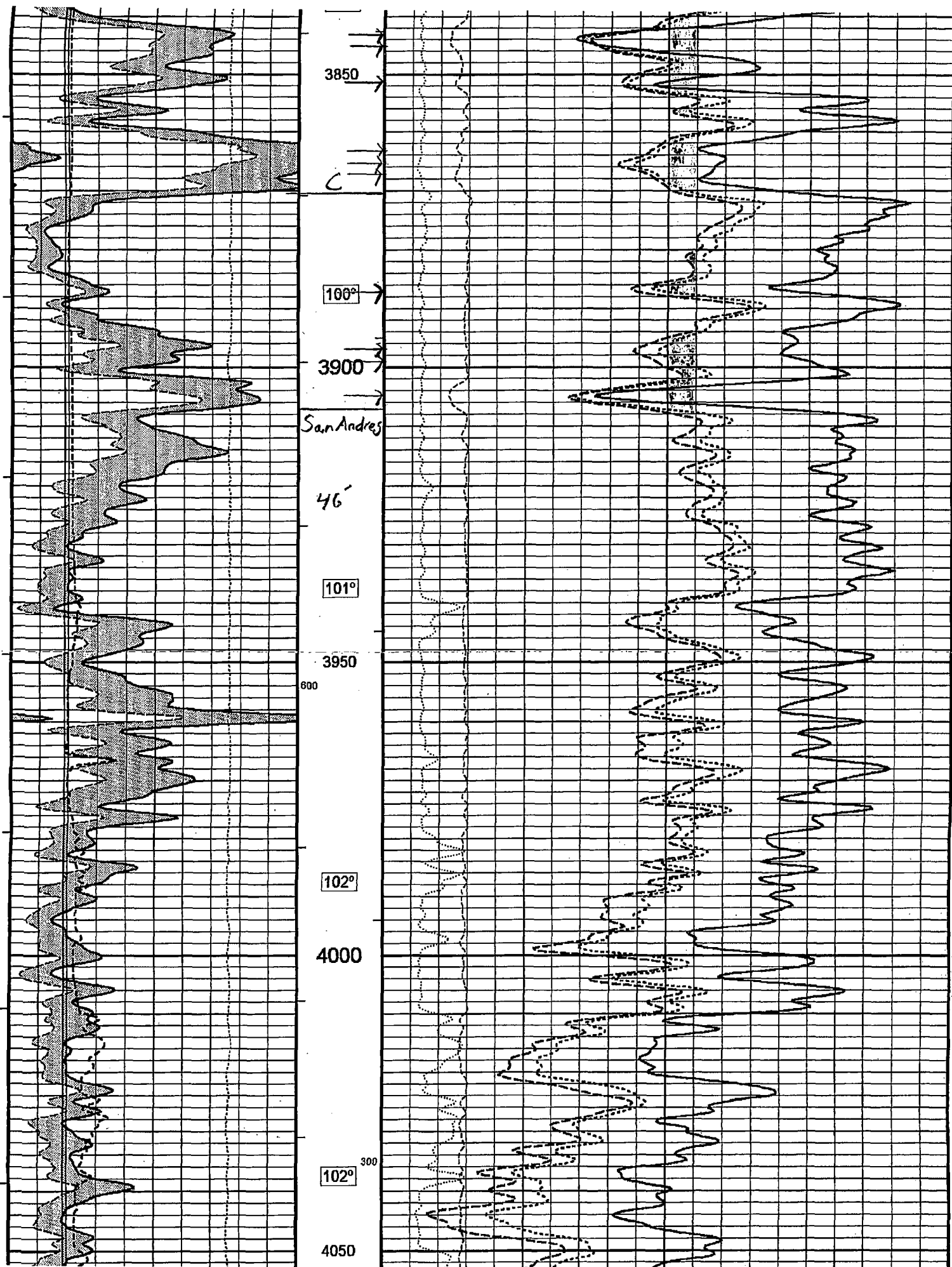


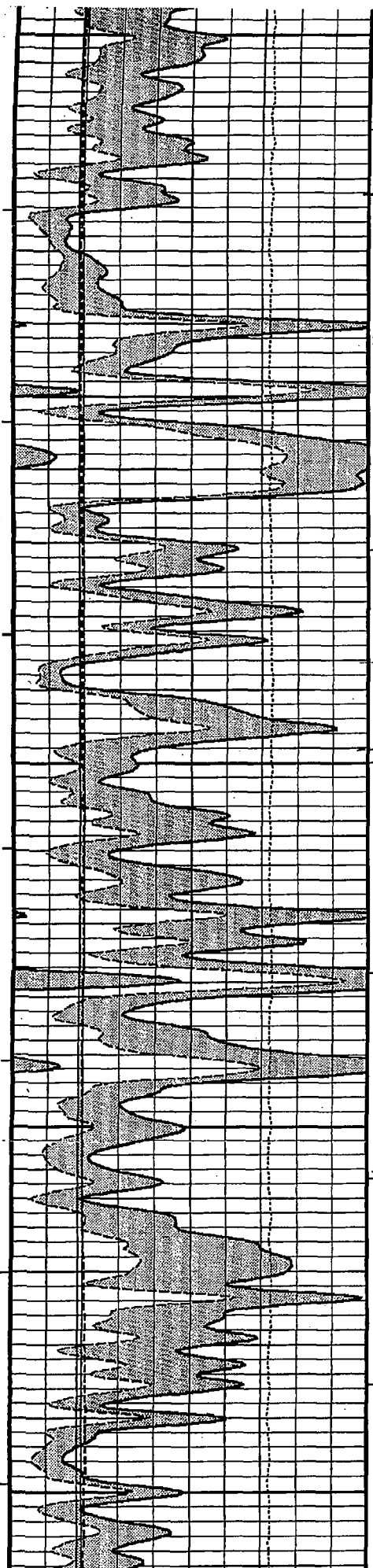
SEC 22	TWP 21S	RGE 37E	Other Services DUAL LATEROLOG COMPENSATED SONIC	MICRO LATEROLOG
API Number 30-025-40177				
Permit Number				

Permanent Datum	G.L. Elevation 3408 feet	Elevations:	feet
Log Measured From	K.B above Permanent Datum	KB	3419.00
Drilling Measured From	K.B	DF	3418.00
		GL	3408.00

Date	16-AUG-2011		
Run Number	ONE		
Depth Driller	5704.00	feet	
Depth Logger	5699.00	feet	
First Reading	5653.00	feet	
Last Reading	100.00	feet	
Casing Driller	1264.00	feet	
Casing Logger	1262.00	feet	
Bit Size	7.875	inches	
Hole Fluid Type	BRINE		
Density / Viscosity	10.00 lb/USg	29.00 sec/qt	
PH / Fluid Loss	10.00	8.00 ml/30Min	
Sample Source	PIT		
Rm @ Measured Temp	0.048 @ 75.0	ohm-m	
Rmf @ Measured Temp	0.036 @ 75.0	ohm-m	
Rmc @ Measured Temp	0.06 @ 75.0	ohm-m	
Source Rmf / Rmc	CALC	CALC	
Rm @ BHT	0.036 @104.0	ohm-m	
Time Since Circulation	8 HOURS		
Max Recorded Temp	104.00	deg F	
Equipment Name	COMPACT		
Equipment / Base	13072	4352	
Recorded By	TRINIDAD HINOJOS JR		
Witnessed By	ROBERT JOHNSON VIA E-MAIL		







5050

Glorietta

104°

200

5100

100

104°

Paddock

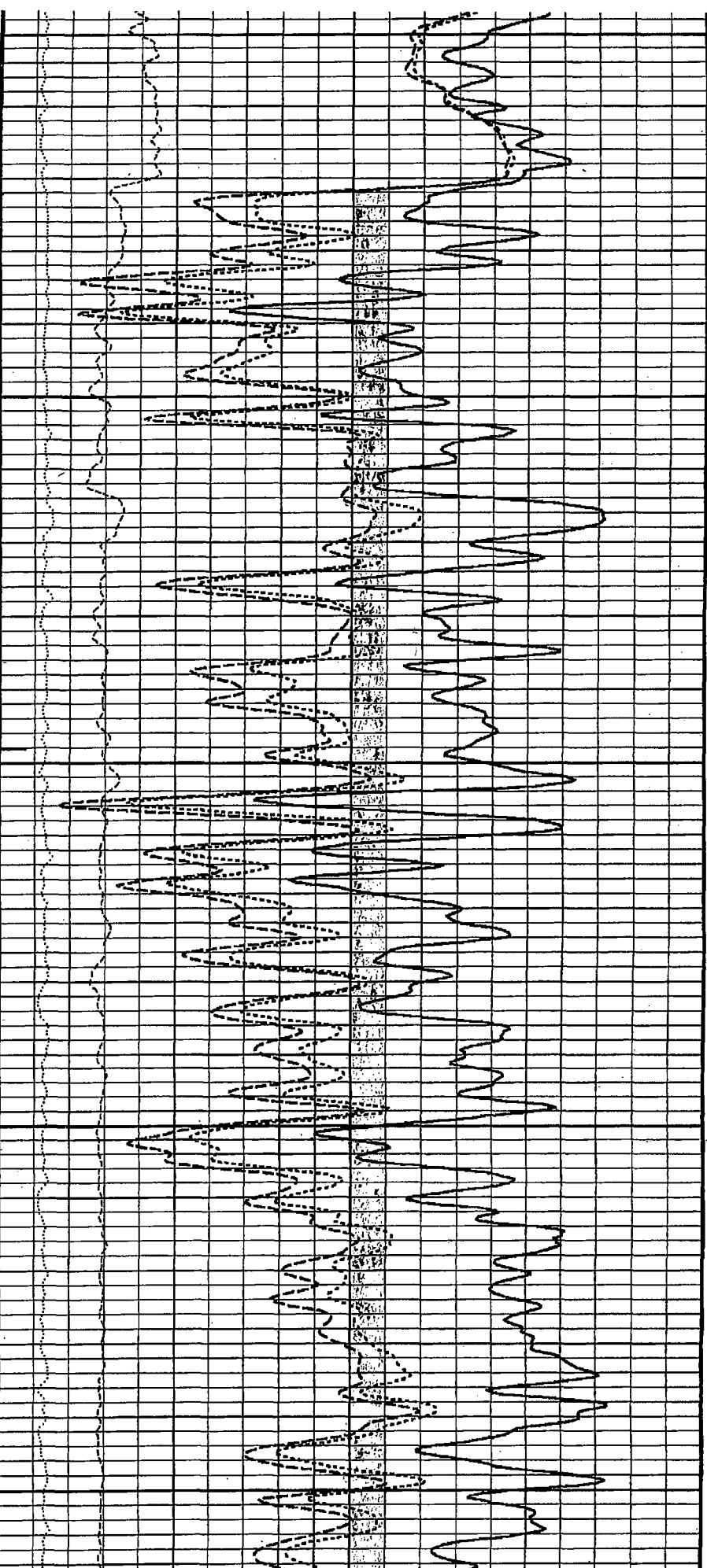
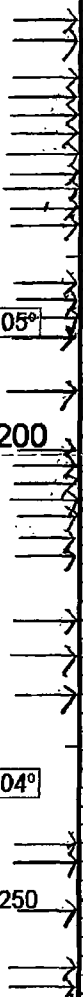
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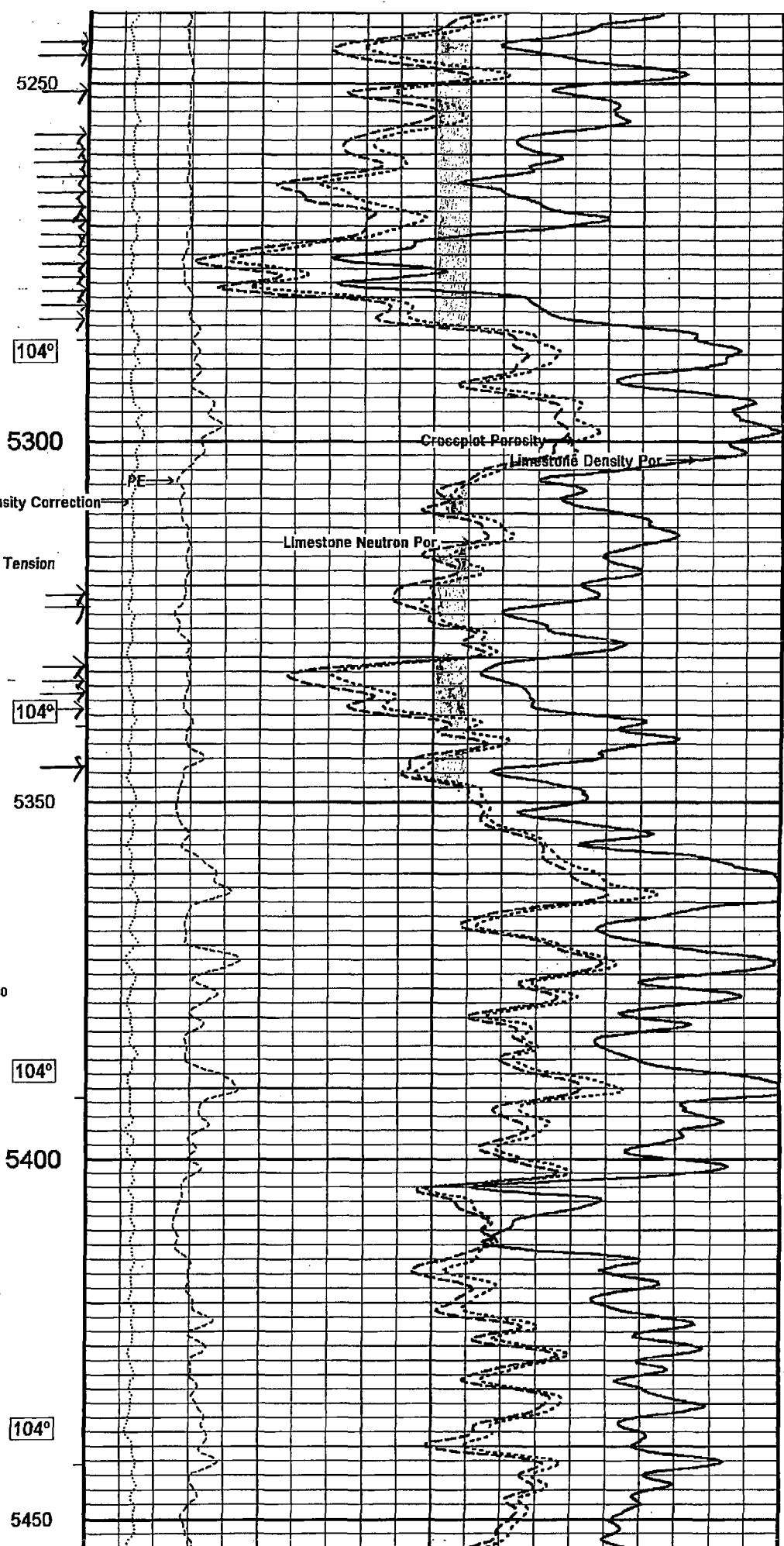
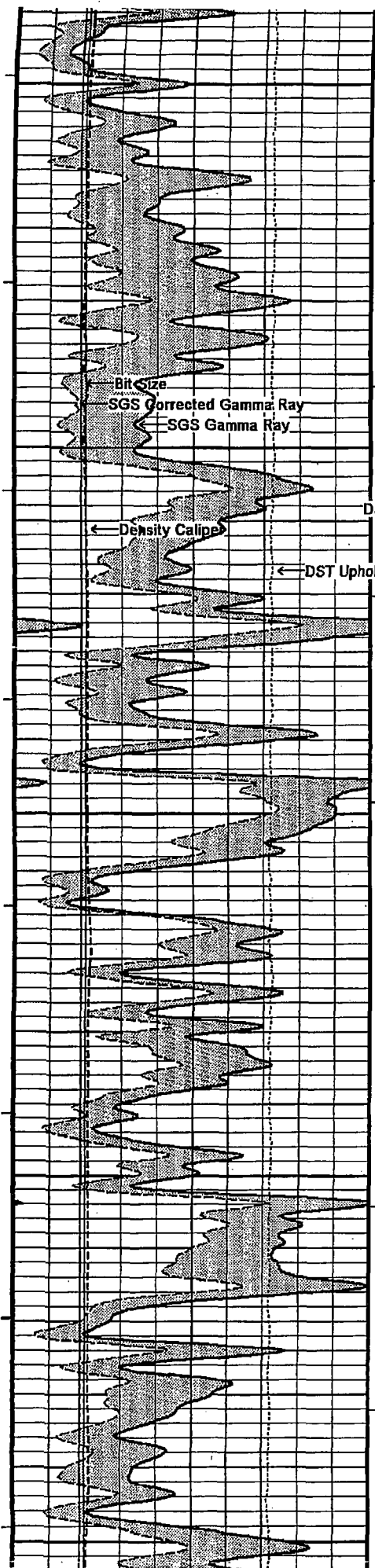
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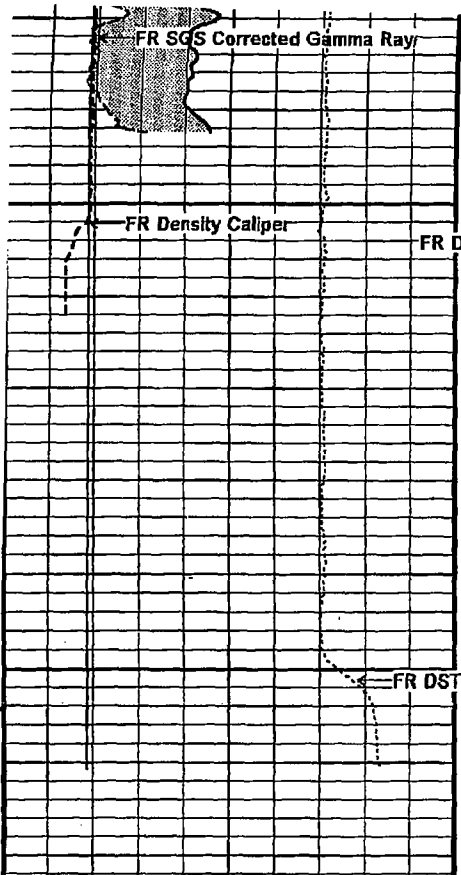
5200

104°

5250







5650

5700

5720
Depth
in
Feet

Borehole
Temp in
deg F

HVI
every
10 cu ft

Annular
Integral
every
10 cu ft

Replay
Scale
1:240

Timing Marks
every 60.0 sec

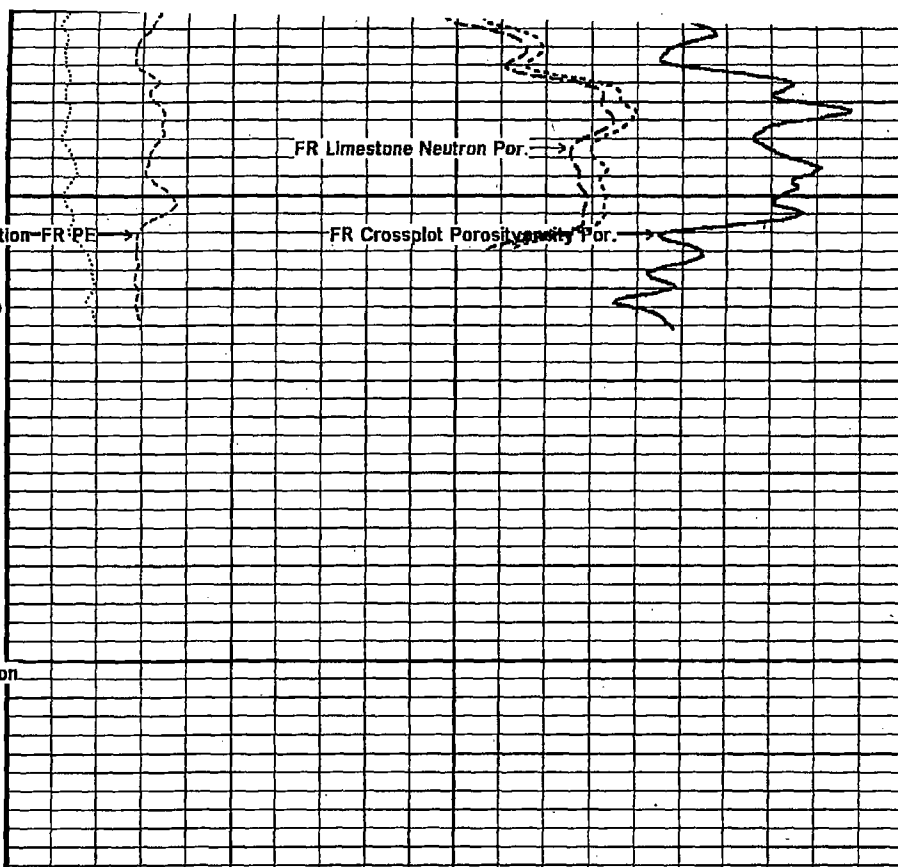
DST Uphole Tension
pounds
5000 2500 0
0 -2500 -5000

Density Caliper
inches
6 11 16

SGS Gamma Ray
API
0 50 100
100 150 200

SGS Corrected Gamma Ray
API
0 50 100
100 150 200

Bit Size
inches
6 11 16



M. 1000