	2/13	SUSPEN	ISE	ENGINEER PG	08/15	13	TYPEDHC	RAPP NO.	132273	5552
					ABOVE THIS LINE FOR DIVISI	ION USE ONLY				
				EXICO OIL (- Engin) South St. Franc	eering Bureau	_ L				
			ADMI	NISTRATI	VE APPLI	CATIO	N CHEC	KLIST		
Т	HIS CHECK	LIST IS N		FOR ALL ADMINIST					S AND REGU	LATIONS
	[Dł	lon-Sta IC-Dow [PC-Pc	ndard Loo nhole Cor ool Comm [WFX-Wa [SW]	cation] [NSP-No mmingling] [O ingling] [OLS iterflood Expans /D-Salt Water Di ianced Oil Reco	CTB-Lease Comi - Off-Lease Sto iion] [PMX-Pr sposal] [IPI-In	mingling] rage] [O essure Ma njection Pr	[PLC-Pool/ DLM-Off-Leas intenance E essure Incre	Lease Col e Measur xpansion] ease]	mmingling ement]	1
[1]	ТҮРЕ	OF AI [A]	Locatio	TION - Check Then The Spacing Unit			n		2	
		Check [B]	Commi	y for [B] or [C] ingling - Storage HC 🔲 CTB		PC	ols 🗌	OLM		RECEIVED OOD
		[C]		on - Disposal - Pr FX 🔲 PMX					D 2:	000
		[D]	Other: S	Specify					л S	Ü
[2]	NOTI	FICAT [A]		QUIRED TO: - orking, Royalty				Not Apply	Apache 30-0	-Coxp 25-3811°
		[B]	Of Of	fset Operators, I	leaseholders or S	Surface Ow	vner		NewMey	ice S Stat
		[C]	🗌 Ap	oplication is One	Which Requires	s Published	l Legal Notic	ce	#	ice S Stat 54
		[D]	No U.S.	Dtification and/or Bureau of Land Manage	Concurrent App ment - Commissioner of	proval by E Public Lands, St	BLM or SLO			
		[E]	🗌 Fo	or all of the above	e, Proof of Notif	ication or I	Publication is	s Attached	, and/or,	
		[F]	□ wa	aivers are Attach	ed					

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

CERTIFICATION: I hereby certify that the information submitted with this application for administrative [4] 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. \cap

1.1

REESA HOLLAND FISHER	Koesa fisher	SR STAFF REG TECH	8/8/2013
Print or Type Name	Signature	Title	Date

NEW MEXICO S STATE #54

Reesa.Holland@apachecorp.com e-mail Address

August 8, 2013

Phillip Goetze New Mexico Oil Conservation Division 1220 South St. Francis Drive Santa Fe, NM 87505

Re: Application for Downhole Commingle
 New Mexico S State #54 (30-025-38119)
 Unit M, Sec 2, T22S, R37E
 Penrose Skelly; Grayburg (50350) and Eunice; San Andres, South (24170) Pools
 Lea County, New Mexico

Dear Mr. Goetze:

Enclosed please find an administrative application form (C-107A) and attachments for downhole commingling the Penrose Skelly; Grayburg and Eunice; San Andres, South pools in the New Mexico S State #54. Apache intends to produce both zones together basing estimated production on the average of other wells on the Lease. Apache will allocate production using the subtraction method, since the well has been producing from the San Andres since September, 2006. The ownership (WI, NRI and ORRI) of these pools are identical in this wellbore. Downhole commingling in this manner will offer an economic method of production while protecting against reservoir damage, waste of reserves and violation of correlative rights. This is a State well, so the State of New Mexico Commissioner of Public Lands has been sent a copy of this application.

Apache intends to recomplete to the Grayburg and downhole commingle with the San Andres per the attached procedure. Offset data from the NM S State Lease was used in determining the attached allocation, which is the same allocation used for all other wells on the Lease. Well tests for these other wells are attached, along with current well tests of the #54 from the San Andres.

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

Sincerely,

Reesa Fisher

Reesa Holland Fisher Sr. Staff Regulatory Tech

Attachments

District I

District II

e, Artesia, NM 88210 1301 W. Grand Av

Hobbs, NM 88240

District III Artec 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 X Single Well Establish Pre-Approved Pools EXISTING WELLBORE X Yes No

APPLICATION FOR DOWNHOLE COMMINGLING

Apache Corporation		3	03 Vetera	ins Airpark	Lane Suite	e 300	0 Midland TX	79705	
Operator		Ac	dress		A				
New Mexico S State	054	М	2	22S	37E			Lea	
Lease	Well No.	Unit Letter	-Section-To	wnship-Ran	ge		(County	
OGRID No873 Property Co	de 34816	API No. <u>30-02</u>	5-38119	I	Lease Type	:	Federal _X	State	Fee
DATA ELEMENT	UPPEF	R ZONE	INT	ERMEDI	ATE ZON	E	LOWE	R ZONE	2
Pool Name	Penrose Ske	elly; Grayburg					Eunice; San	Andres,	Şouth
Pool Code	50	350					24	170	
Top and Bottom of Pay Section (Perforated or Open-Hole Interval)	3636'-3829	9' (Est Perf) 🗸					4183'-422	:9' (Act Pe	ərf)
Method of Production (Flowing or Artificial Lift)	Artific	cial Lift					Artifi	cial 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)	N			7				NA	
Oil Gravity or Gas BTU (Degree API or Gas BTU)	34.8	3 API					33.	7 API	
Producing, Shut-In or New Zone	New	Zone					Pro	ducing	
Date and Oil/Gas/Water Rates of Last Production. (Note: For new zones with no production history,	Date: Calcula	ite	Date:				Date: Various		
applicant shall be required to attach production estimates and supporting data.)	Using Rates: Subtract Knowing	tion Method g SA Prod	Rates:				Rates: See Atta	ached Test	ts
Fixed Allocation Percentage (Note: If allocation is based upon something other	Oil	Gas	Oil		Gas		Oil	Gas	,
than current or past production, supporting data or explanation will be required.)	52 %	50 %		%		%	48 %		50 %

ADDITIONAL DATA

Are all working, royalty and overriding royalty interests identical in all commingled zones? If not, have all working, royalty and overriding royalty interest owners been notified by certified mail?	Yes Yes	×	No No
Are all produced fluids from all commingled zones compatible with each other?	Yes	x	No
Will commingling decrease the value of production?	Yes		No_X
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 knowled	lge and belief.
I hereby certify that the information above is true and SIGNATURE	TITLE Sr Staff Reg Tech	DATE 8/6/2013
TYPE OR PRINT NAME Reesa Holland Fisher		NE NO. (<u>432</u>)818-1062
E-MAIL ADDRESS_ Reesa.Holland@apachecorp.co	om	

					State	of Nev	w Mexico 😈							
DISTRICT I 1625 N. FRENCE DR.,	HOBBS, NM 66	240		Energy,	Minerals as	d Natural	Resources Department		F	omm. C. 102				
DISTRICT II			OIL	1220 5	OUTH	ST.	FRANCIS DR.	ION Submi	Revised Octo it to Appropriate D State Lease	orm C-102 ber 12, 2005 istrict Office = - 4 Copies = - 3 Copies				
DISTRICT III 1000 Rio Brazos I	Rd., Aztec, N	N 874 10		Santa	Fe, N	ew M	exico 87505							
DISTRICT IV			WELL LO	CATION	AND	ACREA	GE DEDICATI	ON PLAT	- AMENDI	ED REPORT				
· · · · · · · · · · · · · · · · · · ·		NH 87000		Pool Code		1		Pool Name						
30-025-	38119		24170			Eun	ice; San Andr	es, South						
Property									Well Num					
34816				NEW	MEXI	CO ST	'ATE "S"		54					
OGRID N 873	0.			APA				Elevatio 3366						
		1			Surfa	ce Loca	ation							
UL or lot No.	Section	Township	Range	Lot Idn	Feet fr	om the	North/South line	Feet from the	East/West line	County				
м	2	22-S	37-E		9	50	SOUTH	980	WEST	LEA				
Į			Bottom	Hole Los	ration	If Diffe	rent From Sur	face		l				
UL or lot No.	Section	Township	T	T					East/West line	County				
									2009 #000 1120					
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								l hereby herein is truc	certify that the info and complete to the	ormation e best of				
				1				organization all or unleased mill including the p	her owns a working neral interest in the proposed bottom hol	e land e location				
	1					1		location pursua	int to a contract wi	th an				
39.78 AC	.	39.76	AC	1 3	9.76 AC		39.74 AC	compulsory poo	ling order heretofor					
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DISTRICT I 1825 N. FRINCH OR., HOBBS, NM 80240

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DISTRICT II 1301 T. GBARD AVENUE, ARTESIA, NY 86210

DISTRICT III 1000 Rio Brazos Rd., Aztec. NM 87410 OIL CONSERVATION DIVISION 1220 SOUTH ST. FRANCIS DR. Santa Fe, New Mexico 87505

State of New Mexico

Energy, Minerals and Natural Resources Department

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

: *****

DISTRICT IV 1220 S. ST. PRANCES D	R. SANTA PT.	NM 87505	VELL LO	CATION	AND ACREA	GE DEDICATI	ON PLAT		D REPORT
the second s	Number			Pool Code			Pool Name		
30.025	-3814	<u> </u>	5	0350	6	Penrose	Skelly G	rayburg	>
Property				NUM	Property Nam	e	l	Well Num	
3481				NEW	MEXICO ST			.54 Elevatio	
ogrid no 873	D.			АРА	Operator Name CHE CORPO			3366	-
		I			Surface Loca				
UL or lat No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
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L			Bottom	Hole Loo	cation If Diffe	rent From Sur	face		
UL or lot No.	Section	Township	Range	Lot Ida	Feet from the	North/South line	Feet from the	Bast/West line	County
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40									
NO ALLO	WABLE W	TILL BE AS	SIGNED	TO THIS	COMPLETION U	INTIL ALL INTER	RESTS HAVE BE	EN CONSOLIDA	TED
LOT 4	T	LOT			LOT 2	LOT 1		R CERTIFICAT	
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				1			berein is true	and complete to the	e best of
				ł	1		organization el	iber owns a working inersi interest in th	e lead
				1			including the j	to drill this well at	e location this
	1			1	I		owner of such	ent lo a contract wi mineral or working	iolerest,
39.78 A	<u> </u>	39.76	AC	L3	9.75 AC	39.74 AC	compulsory po	ry pooling agreeme bling order heretofor	re entered
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Select By: Field

Display: All well tests between 01/01/2013 - 08/03/2013

Test	Effective	Measured	Туре		2	4 Hour Volume	s		Ratios					Fluid
Date	Date	Hours	Type	Gr Liquid	OIL	GAS	WAT	LIFT	GOR	GLR	IGOR	IGLR	TGLR	Level
Field: PENROS	E-SKELLY					in the same								
NEW MEXIC	O STATE /S	6/ #54												
3/21/2013	3/21/2013	24	А	168	9	7	159	0	778	42	0	0	42	
4/5/2013	4/5/2013	24	А	185	10	1	175	0	100	5	0	0	5	
5/10/2013	5/10/2013	24	А	186	9	3	177	0	333	16	0	0	16	
6/8/2013	6/8/2013	24	A	181	10	3	171	0	300	17	0	0	17	
7/23/2013	7/23/2013	24	A	177	9	3	168	0	333	17	0	0	17	
Averages by Co	ompletion			179	9	3	170	0						

Page 1 of 1 8/5/2013 4:39:30 pm

* Other Lease wells w/some allocations.

Well Test History Report

Select By: Field

Display: All well tests between 01/01/2013 - 08/06/2013

Test	Effective	Measured	Туре			24 Hour Volum	es				Ratios			Fluid
Date	Date	Hours	1,00	Gr Liquid	OIL	GAS	WAT	LIFT	GOR	GLR	IGOR	IGLR	TGLR	Level
Field: PENRO	SE-SKELLY	7												
NEW MEXIC	O STATE /	8/ #42												
1/1/2013	1/1/2013	24		547	32	110	515	0	3,438	201	0	0	201	
3/1/2013			A A	527	25	85	502	0	3,400	161	0	0	161	
4/18/2013			A	429	42	93	387	0	2,214	217	0 0	õ	217	
5/19/2013			A	418	40	91	378	ů 0	2,275	218	0	ů	218	
6/4/2013			A	494	49	105	445	0	2,143	213	ů 0	Ő	213	
7/6/2013			A	475	39	102	436	0	2,615	215	0	0	215	
Averages by C				482	38	98	444	0						
NEW MEXIC	O STATE /	5/ #43 (GRAY	(BURG)											
3/3/2013	3/3/2013	24	А	164	4	180	160	0	45,000	1,098	0	0	1,098	
4/11/2013			A	194	9	148	185	0	16,444	763	0	0	763	
5/21/2013			A	181	8	152	173	0	19,000	840	0	0	840	
6/19/2013			A	173	8	152	165	0	19,000	879	0	0	879	
7/8/2013			A	1,169	8	61	1,161	0	7,625	52	0	0	52	
Averages by C	ompletion			376	7	139	369	0						
NEW MEXIC	O STATE /	5/ #44												
3/6/2013	3/6/2013	24	А	1,649	5	119	1,644	0	23,800	72	0	0	72	
4/1/2013	4/1/2013	24	А	1,303	4	32	1,299	0	8,000	25	0	0	25	
4/2/2013	4/2/2013	24	A	1,201	8	62	1,193	0	7,750	52	0	0	52	
5/17/2013	5/17/2013	24	А	1,210	8	63	1,202	0	7,875	52	0	0	52	
6/22/2013	6/22/2013	24	А	1,196	10	65	1,186	0	6,500	54	0	0	54	
7/10/2013	7/10/2013	24	А	1,169	8	61	1,161	0	7,625	52	0	0	52	
Averages by C	ompletion			1,288	7	67	1,281	0						
NEW MEXIC	O STATE /S	6/ #45												
3/4/2013	3/4/2013	24	А	24	3	40	21	0	13,333	1,667	0	0	1,667	
4/21/2013	4/21/2013		A	44	11	40	33	0	3,636	909	0	0	909	
5/20/2013	5/20/2013	24	A	39	10	38	29	0	3,800	974	0	0	974	
6/23/2013	6/23/2013	24	A	20	5	39	15	0	7,800	1,950	0	0	1,950	
7/24/2013	7/24/2013	24	A	17	3	36	14	0	12,000	2,118	0	0	2,118	
	ompletion			29	6	39	22	0						

** All values are recorded using imperial units.

Page 1 of 5 8/8/2013 9:59:23 am

Select By: Field

Display: All well tests between 01/01/2013 - 08/06/2013

Test	Effective	Measured	Туре			24 Hour Volume	'S				Ratios			Fluid
Date	Date	Hours	1,00	Gr Liquid	OIL	GAS	WAT	LIFT	GOR	GLR	IGOR	IGLR	TGLR	Level
ield: PENROS	SE-SKELLY	-												
3/12/2013	3/12/2013	24	А	13	3	41	10	0	13,667	3,154	0	0	3,154	
4/24/2013	4/24/2013	24	А	17	5	41	12	0	8,200	2,412	0	0	2,412	
5/10/2013	5/10/2013	24	А	14	4	39	10	0	9,750	2,786	0	0	2,786	
6/17/2013	6/17/2013	24	А	19	5	40	14	0	8,000	2,105	0	0	2,105	
7/14/2013	7/14/2013	24	А	15	3	34	12	0	11,333	2,267	0	0	2,267	
Averages by C	ompletion			16	4	39	12	0						
NEW MEXIC	O STATE /S	5/ #47 (SAN A	ANDRES)										
3/5/2013	3/5/2013	24	А	74	5	118	69	0	23,600	1,595	0	0	1,595	
4/29/2013	4/29/2013	24	А	20	6	123	14	0	20,500	6,150	0	0	6,150	
5/1/2013	5/1/2013	24	А	22	6	134	16	0	22,333	6,091	0	0	6,091	
5/7/2013	5/7/2013	24	А	16	4	135	12	0	33,750	8,438	0	0	8,438	
5/9/2013	5/9/2013	24	А	18	4	125	14	0	31,250	6,944	0	0	6,944	
6/28/2013	6/28/2013	24	Α	16	4	40	12	0	10,000	2,500	0	0	2,500	
7/16/2013	7/16/2013	24	Α	13	3	38	10	0	12,667	2,923	0	0	2,923	
Averages by C	ompletion			26	5	102	21	0						
NEW MEXIC	O STATE /S	5/ #48 SAN A	NDRES											
3/7/2013	3/7/2013	24	А	12	6	90	6	0	15,000	7,500	0	0	7,500	
4/28/2013	4/28/2013		A	12	5	92	7	0	18,400	7,667	0	0	7,667	
5/28/2013			A	12	3	71	9	0	23,667	5,917	0	0	5,917	
6/26/2013	6/26/2013	24	А	22	16	68	6	0	4,250	3,091	0	0	3,091	
7/18/2013	7/18/2013	24	А	19	14	66	5	0	4,714	3,474	0	0	3,474	
Averages by Co	ompletion			15	9	77	7	0						
NEW MEXIC	O STATE /S	5/ #49 (GRAY	BURG)											
3/10/2013	3/10/2013	24	А	354	8	69	346	0	8,625	195	0	0	195	
4/22/2013			A	362	10	45	352	0	4,500	124	0	0	124	
4/23/2013			A	339	11	47	328	0	4,273	139	0	0	139	
5/16/2013			A	329	17	39	312	0	2,294	119	0	0	119	
6/13/2013	6/13/2013	24	A	323	9	44	314	0	4,889	136	0	0	136	
7/20/2013	7/20/2013	24	A	312	8	41	304	0	5,125	131	0	0	131	
Averages by Co	ompletion			337	11	48	326	0						
				<u> </u>				· · · · · · · · · · · · · · · · · · ·	<u></u>					
NEW MEXIC	Ó STATE /S	5/ #50												

Page 2 of 5 8/8/2013 9:59:23 am

** All values are recorded using imperial units.

Select By: Field

Display: All well tests between 01/01/2013 - 08/06/2013

Test	Effective	Measured	Туре			24 Hour Volume	s				Ratios			 Fluid
Date	Date	Hours	турс	Gr Liquid	OIL	GAS	WAT	LIFT	GOR	GLR	IGOR	IGLR	TGLR	Level
Field: PENROS	E-SKELLY													
NEW MEXIC	O STATE /S	5/ #50												
3/13/2013	3/13/2013	24	А	354	25	15	329	0	600	42	0	0	42	
4/19/2013	4/19/2013		A	294	35	4	259	0	114	14	0	0	14	
5/22/2013	5/22/2013		A		36	7	251	0	194	24	0	0	24	
6/14/2013	6/14/2013		A	298	34	5	264	0	147	17	0	0	17	
7/4/2013	7/4/2013		A	287	30	4	257	0	133	14	0	0	14	
Averages by Co	ompletion			304	32	7	272	0						
NEW MEXIC	O STATE /S	6/ #51 (GRA	YBURG)											
3/15/2013	3/15/2013	24	А	44	9	75	35	0	8,333	1,705	0	0	1,705	
4/28/2013	4/28/2013		A	30	3	94	27	0	31,333	3,133	0	0	3,133	
5/1/2013	5/1/2013		A		4	98	430	0	24,500	226	0	0	226	
5/31/2013	5/31/2013		A		5	78	31	0	15,600	2,167	0	0	2,167	
6/16/2013	6/16/2013		A	30	3	90	27	0	30,000	3,000	0	0	3,000	
7/5/2013	7/5/2013		A	28	3	87	25	0	29,000	3,107	0	0	3,107	
Averages by Co				100	5	87	96	0						
NEW MEXIC	O STATE /S	6/ #52												
3/16/2013	3/16/2013	24	А	12	2	6	10	0	3,000	500	0	0	500	
4/25/2013	4/25/2013		A		8	9	12	0	1,125	450	0	0	450	
5/13/2013	5/13/2013		A		3	9	13	0	3,000	563	0	0	563	
6/11/2013	6/11/2013		A		6	9	13	0	1,500	474	0	0	474	
7/9/2013	7/9/2013		A		5	8	10	0	1,600	533	0	0	533	
Averages by Co				16	5	8	12	0						
NEW MEXIC	O STATE /S	8/ #53												
3/18/2013	3/18/2013	24	А	115	16	7	99	0	438	61	0	0	61	
4/28/2013	4/28/2013		A		15	9	89	0	600	87	0	0	87	
5/27/2013	5/27/2013		A		14	9	91	0	643	86	0	0	86	
6/4/2013	6/4/2013		A		15	4	101	0	267	34	0	0	34	
6/5/2013	6/5/2013		A		14	6	88	0	429	59	0	0	59	
7/7/2013	7/7/2013		A		12	5	86	0	417	51	0	0	51	
Averages by Co		21	Α	107	14	7	92	0						
NEW MEXIC	O STATE /	5/ #55 SAN A	NDRES											

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** All values are recorded using imperial units.

Select By: Field

Display: All well tests between 01/01/2013 - 08/06/2013

Test	Effective	Measured	Туре			24 Hour Volum	es				Ratios			Fluid
Date	Date	Hours	Турс	Gr Liquid	OIL	GAS	WAT	LIFT	GOR	GLR	IGOR	IGLR	TGLR	Level
Field: PENRO	SE-SKELLY													
3/23/2013	3/23/2013	24	А	97	12	95	85	0	7,917	979	0	0	979	
4/1/2013	4/1/2013	24	А	122	11	27	111	0	2,455	221	0	0	221	
4/2/2013	4/2/2013	24	Α	117	9	28	108	0	3,111	239	0	0	239	
4/3/2013	4/3/2013	24	Α	114	13	33	101	0	2,538	289	0	0	289	
5/12/2013	5/12/2013	24	Α	116	10	30	106	0	3,000	259	0	0	259	
6/9/2013	6/9/2013	24	Α	124	13	33	111	0	2,538	266	0	0	266	
7/22/2013	7/22/2013	24	Α	119	11	31	108	0	2,818	261	0	0	261	
Averages by C	ompletion			116	11	40	104	0						
NEW MEXIC	O STATE /S	5/ #56 (SAN A	ANDRES)										
3/26/2013	3/26/2013	24	А	936	11	50	925	0	4,545	53	0	0	53	
4/24/2013	4/24/2013	24	A	1,060	12	106	1,048	0	8,833	100	0	0	100	
5/7/2013			A	1,045	16	90	1,029	0	5,625	86	0	0	86	
5/9/2013			A	1,076	14	103	1,062	0	7,357	96	0	0	96	
6/7/2013	6/7/2013	24	A	998	11	116	987	0	10,545	116	0	0	116	
7/24/2013			A	983	9	114	974	0	12,667	116	0	0	116	
Averages by C				1,016	12	97	1,004	0						
NEW MEXIC	O STATE /S	6/ #57 (SAN /	ANDRES)										
3/27/2013	3/27/2013	24	А	38	5	180	33	0	36,000	4,737	0	0	4,737	
4/30/2013			A	35	5	179	30	0	35,800	5,114	0	0	5,114	
5/29/2013			A	38	5	181	33	0	36,200	4,763	0	0	4,763	
6/12/2013			A	32	4	174	28	0	43,500	5,438	0	0	5,438	
	7/19/2013		A	31	4	169	27	0	42,250	5,452	0	0	5,452	
Averages by C		2.	21	35	5	177	30	0	,				-	
NEW MEXIC	O STATE /S	6/ #58 (GRA)	YBURG)											
3/29/2013	3/29/2013	24	А	16	4	88	12	0	22,000	5,500	0	0	5,500	
4/17/2013			A	14	4	85	10	0	21,250	6,071	0	0	6,071	
5/26/2013			A	11	3	81	8	0	27,000	7,364	0	0	7,364	
6/19/2013			A	12	3	83	9	0	27,667	6,917	0	0	6,917	
7/11/2013			A	11	3	81	8	0	27,000	7,364	0	0	7,364	
Averages by C		2.	71	13	3	84	9	0						
														-
NEW MEXIC	CO STATE /S	5/ #59 (SAN 2	ANDRES)										

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** All values are recorded using imperial units.

Select By: Field

Display: All well tests between 01/01/2013 - 08/06/2013

Test Date		Measured Type Hours	24 Hour Volumes				Ratios				Fluid			
			.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Gr Liquid	OIL	GAS	WAT	LIFT	GOR	GLR	IGOR	IGLR	TGLR	Level
Field: PENROSE-SKELLY														
NEW MEXICO STATE /S/ #59 (SAN ANDRES)														
3/30/2013	3/30/2013	24	А	224	13	82	211	0	6,308	366	0	0	366	
4/30/2013	4/30/2013	24	А	230	15	85	215	0	5,667	370	0	0	370	
5/18/2013	5/18/2013	24	А	221	14	83	207	0	5,929	376	0	0	376	
6/26/2013	6/26/2013	24	A	228	15	84	213	0	5,600	368	0	0	368	
7/17/2013	7/17/2013	24	A	224	14	82	210	0	5,857	366	0	0	366	
Averages by Co	ompletion			225	14	83	211	0						

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August 7, 2013

State of New Mexico OIL CONSERVATION DIVISION 1220 South St. Francis Drive Santa Fe, New Mexico 87505

Re: Application for Down Hole Commingling (Identical Ownership) New Mexico S State #54 (API: 30-025-38119) Township 22 South, Range 37 East Section 2: All Lea County, NM

Ladies and Gentlemen:

Identical ownership (working, royalty and overriding royalty owners) exists as to the Grayburg and San Andres formations, in the following described lands:

Township 22 South, Range 37 East Section 2: All Lea County, NM

If you have any question regarding the aforementioned, please do not hesitate contacting the undersigned at (432) 818-1097.

Sincerely, APACHECORPORATION

bylan C. Park Landman (432) 818-1190 Fax dylan.park@apachecorp.com

Submit 1 Copy To Appropriate District Office	State of New Mexi	,	Form C-103 Revised August 1, 2011		
<u>District I</u> – (575) 393-6161 1625 N. French Dr., Hobbs, NM 88240	Energy, Minerals and Natura	WEL	L API NO.		
<u>District II</u> – (575) 748-1283 811 S. First St., Artesia, NM 88210 District III – (505) 334-6178	OIL CONSERVATION D 1220 South St. Franci	IVISION 5 Inc	30-025-38119 5. Indicate Type of Lease		
1000 Rio Brazos Rd., Aztec, NM 87410		STATE / FEE			
<u>District IV</u> – (505) 476-3460 1220 S. St. Francis Dr., Santa Fe, NM 87505		B0-0934-0021			
SUNDRY NOT	ICES AND REPORTS ON WELLS		ease Name or Unit Agreement Name		
DIFFERENT RESERVOIR. USE "APPLI	SALS TO DRILL OR TO DEEPEN OR PLUG CATION FOR PERMIT" (FORM C-101) FOR		Iexico S State (34816)		
PROPOSALS.) 1. Type of Well: Oil Well 🔽	Gas Well 🗌 Other		ell Number 054		
2. Name of Operator Apache Corporation		9. O0 873	GRID Number		
3. Address of Operator			Pool name or Wildcat		
303 Veterans Airpark Lane, Suite 3	000 Midland, TX 79705	Eunice	e; San Andres, South (24170)		
4. Well Location		1	fact from the Wost		
Unit Letter M: Section 2	950 feet from the South Township 22S Rang	line and <u>980</u> e 37E NMP	feet from the <u>West</u> line M County Lea		
Section 2	11. Elevation (Show whether DR, R				
an and you as an a support of a super-spectrum on the super-	3366' GL				
12 Check	Appropriate Box to Indicate Nat	ure of Notice, Repor	t or Other Data		
	NTENTION TO: PLUG AND ABANDON		JENT REPORT OF:		
		COMMENCE DRILLING			
PULL OR ALTER CASING		ASING/CEMENT JOB			
DOWNHOLE COMMINGLE					
OTHER: RECOMPLETE		DTHER:			
of starting any proposed or com proposed completion or re	rork). SEE RULE 19.15.7.14 NMAC.	For Multiple Completio	pertinent dates, including estimated date ns: Attach wellbore diagram of		
proposed completion of re					
Apache requests approval to reco attached procedure. (NOI reque	omplete this well in the Grayburg and th sting DHC to follow.)	en commingle with the e	xisting San Andres production, per the		
Spud Date: 9/25/2006	Rig Release Date	10/03/2006			
		·			
			1. 0		
I hereby certify that the information	above is true and complete to the best	of my knowledge and b	ellet.		
Poor I	inha.	Dev Teek			
SIGNATURE HUSA 1	TITLE Sr. Staff	Reg lech	DATE_8/5/2013		
Type or print name Reesa Holland	I Fisher E-mail address:	Reesa.Holland@apachecorp.c	com PHONE:432/818-1062		
For State Use Only					
APPROVED BY:	TITLE		DATE		
Conditions of Approval (if any):					

NM State S #54 Sec 2, T-22-S, R-37-E Lea County, New Mexico

GRAYBURG RECOMPLETION – 1 STAGE

<u>2-7/8" Tbg</u>

2-7/8", 6.5#, J-55, 8rd EUE Capacity: 0.0058 bbl/ft = 0.2432 gal/ft Burst: 7,260 psig; 80% = 5,808 psig; Collapse: 7,680 psig; 80% = 6,144 psig; Yield: 99,960 lbs; 80% = 79,728 lbs $\frac{5-1/2" \operatorname{Csg}}{5-1/2", 17\#, L-80}$ Capacity: 0.0232 bbl/ft = 0.974 gal/ft Burst: 7,740 psig; 80% = 6,192 psig; Collapse: 6,390 psig; 80% = 5,112 psig; Yield: 397,000 lbs; 80% = 317,600 lbs;

<u>Days 1-2</u>

- 1. **POOH and Clean out:** MIRU PU. POOH rods and pump. NDWH. Unset TAC. NUBOP. Tag for fill. POOH 2-7/8" tbg. RIH w/ scraper to PBTD. POOH tbg and scraper. (Note: If drilling out fill is required, wait to do after frac.)
- Perf Grayburg: MIRU WL. Perf Grayburg w/ 3-3/8" SDP-3375-411NT3 csg gun w/ 2 JSPF at 3636, 49, 60, 81-83, 3706-08, 12-14, 22-24, 31, 48-52, 63, 72, 78-82, 94, 99-01, 3814-16, 23-25, 27-29 (41 ft, 82 holes, 120 deg phasing)

<u>Day 3</u>

3. Acidize Grayburg: RIH w/ tbg, packer, and RBP (note: use a CBP if fill is required to be drilled out). Set RBP at 3,910'. Spot 7 bbls 15% HCl across perfs. PUH to 3,580'. Rev circulate 5 bbls 2% KCl and set packer. BD perfs and EIR w/ 2% KCl wtr. Acidize w/ 3,000 gal 15% HCl @ 7 bpm w/ 125 BS. Max pressure 5,500 psig. Flush w/ 32 bbls 2% KCl wtr (5 bbl overflush). Record ISIP and 5/10/15" SIP's. Run packer through perfs to knock off BS. POOH tbg and packer. Prep for frac.

Day 4

Frac Grayburg: Frac Grayburg from 3,636' - 3,829' @ ~40 bpm w/ 77,000 gal 30#, XL, 2% KCl wtr carrying 132,000 lbs 16/30 Ottawa RC sand w/ a 1-6 ppg stair step. Max pressure 6,000 psig. Flush w/ 81 bbls 2% KCl wtr (3 bbl underflush). Record ISIP and 5/10/15" SIP's.

Volume	Rate	Sd Conc	Total Sand	Sd Mesh Size			
(Gals)	(BPM)	(ppg)	(lbs)				
28,000	40	0	0	Pad			
15,000	40	1.0	15,000	16/30 Ottawa RCS			
11,000	40	2.0	22,000	16/30 Ottawa RCS			
9,000	40	3.0	27,000	16/30 Ottawa RCS			
6,000	40	4.0	24,000	16/30 Ottawa RCS			
4,000	40	5.0	20,000	16/30 Ottawa RCS			

TENTATIVE GRAYBURG SCHEDULE

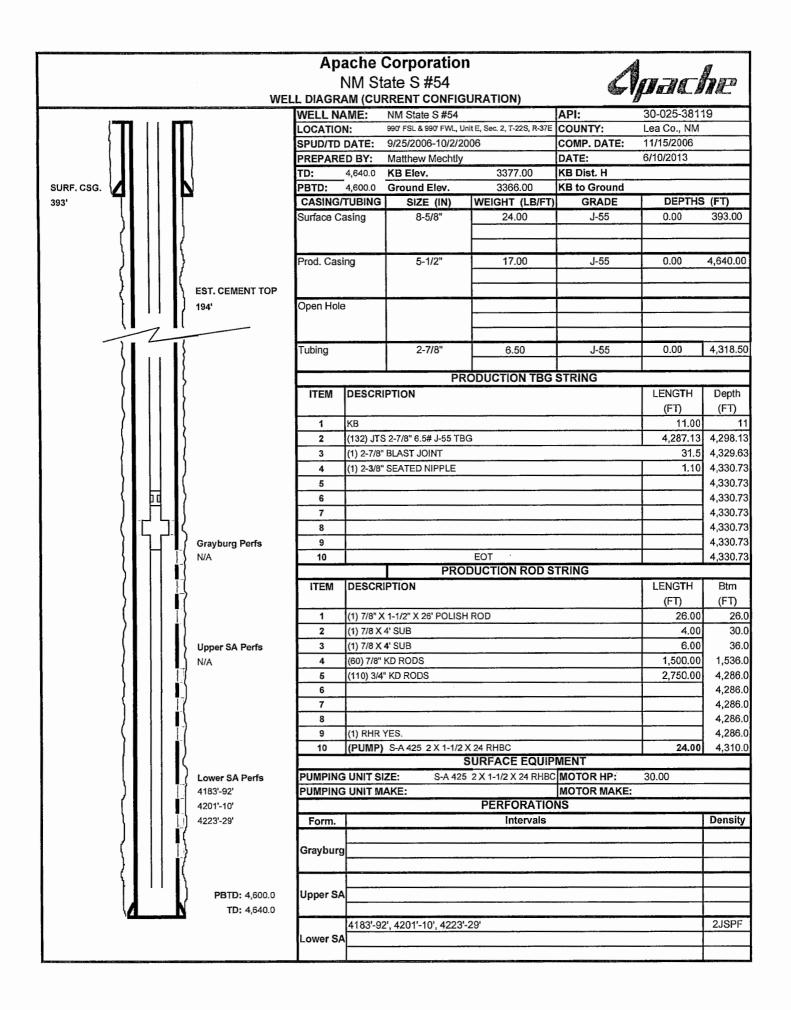
C:\Users\reesa.holland\AppData\Local\Microsoft\Windows\Temporary Internet Files\Content.Outlook\PCE31BS9\NM state S 54 Completion Proc.docx

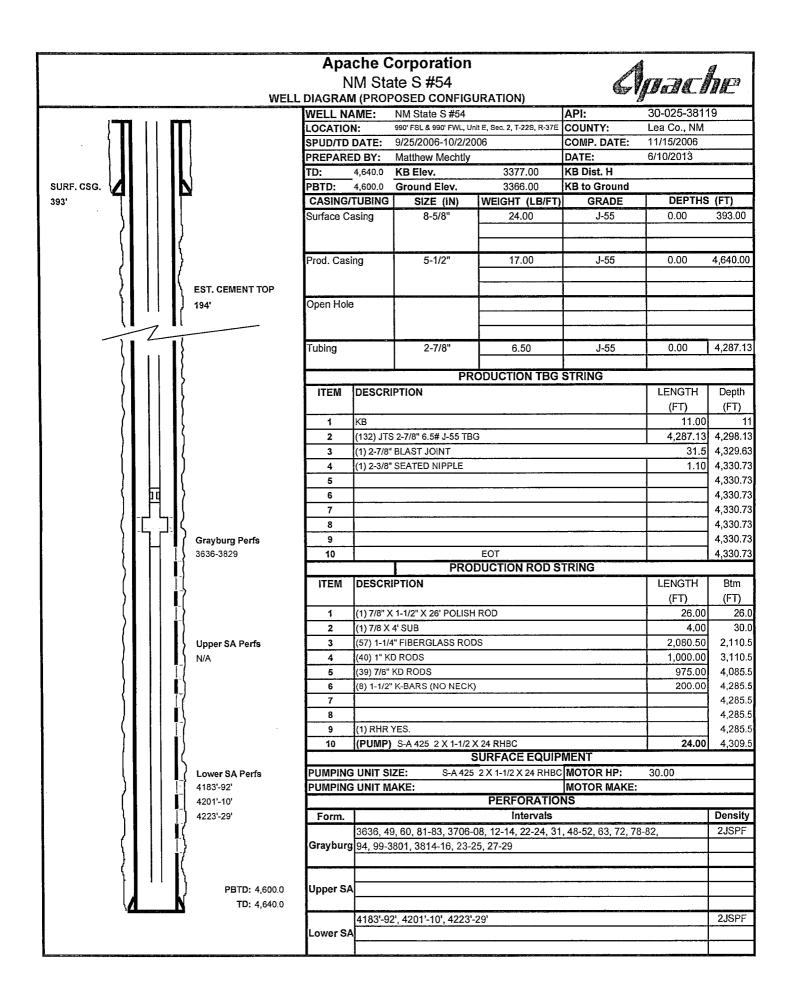
4,000	40	6.0	24,000	16/30 Ottawa RCS
3,402	40	0	0	Flush

Note: Do not overflush.

Day 5 (and 6, if necessary)

- 5. Clean out sand w/ AFU: SWI. RDMO frac equipment. MIRU AFU. OWU and blow down. TIH w/ tbg and retrieving head and clean out sand to RBP. Circulate hole clean. POOH w/ tbg and RBP. (Note: TIH w/ mill, SN, and tbg if CBP in hole.)
- 6. **Put on Production:** TIH w/ 2-7/8" prod string, pump, rods, and SN. Hang on, load and test, space out, put on production. Put into test separator.





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