

NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

Bill Richardson Governor Joanna Prukop Cabinet Secretary

January 22, 2003

Lori Wrotenbery Director Oil Conservation Division

Apache Corporation c/o W. Thomas Kellahin P. O. Box 2265 Santa Fe, New Mexico 87504

Telefax No. (505) 982-2047

Administrative Order NSL-4830

Dear Mr. Kellahin:

Reference is made to the following: (i) your application (*application reference No. pKRV0-300352546*) dated January 2, 2003 on behalf of the operator Apache Corporation; and (ii) the records of the New Mexico Oil Conservation Division ("Division") in Santa Fe, including the file on Division Administrative Order PC-289, dated December 7, 1965: all concerning Apache Corporation's request for an unorthodox Grayburg replacement oil well location within a former standard 40-acre oil spacing and proration unit in the Penrose Skelly (Grayburg) Pool (50350) comprising the SW/4 SE/4 (Unit O) of Section 20, Township 21 South, Range 37 East, NMPM, Lea County, New Mexico.

This application has been duly filed under the provisions of Division Rule 104.F, revised by Division Order No. R-11231, issued by the New Mexico Oil Conservation Commission in Case No. 12119 on August 12, 1999.

It is our understanding that initial development of Grayburg oil production within this 40-acre unit commenced in the 1937 when Getty Oil Company drilled and completed the D. C. Hardy Well No. 2 (API No. 30-025-06691) at a standard oil well location 660 feet from the South line and 1980 feet from the East line of Section 20. Penrose Skelly (Grayburg) oil production ceased in this well in February, 1970 and in November, 1991 this well was finally plugged and abandoned.

Further, the S/2 SE/4 of Section 20 is a single fee lease with common ownership in which Apache Corporation is the leasehold operator.

It is further understood that such unorthodox location is necessitated for geologic and engineering reasons in that this location is approximately equidistance to other former Penrose Skelly (Grayburg) oil producers within this lease. This replacement well at the proposed unorthodox oil well location will enable Apache Corporation to further develop and deplete the Grayburg reserves within this 80-acre lease that might not otherwise be recovered.

By the authority granted me under the provisions of Division Rule 104.F (2), the following described well to be drilled as a replacement Grayburg oil well within this former 40-acre unit at an

Administrative Order NSL-4830 Apache Corporation January 22, 2003 Page 2

unorthodox oil well location is hereby approved:

D. C. Hardy Well No. 6 330' FSL & 1330' FEL.

Sincerely,

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Lori Wrotenbery Director

LW/MES/kv cc: New Mexico Oil Conservation Division - Hobbs



Form C-101

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

APPLICATION FOR PERMIT TO DRILL

	Operator Name and Address					
Apache Corpora	873					
	Two Warren Place, Suite 1500 Tulsa, OK 74136-4224					
Property Code Property Name 16814 DC HARDY		Well No. 006				

Surface Location Lot Idn Feet From N/S Line Feet From E/W Line UL or Lot Section Township County Range 20 **21S** 37E 330 S 1330 Ε Lea 0

Proposed Pools

PENROSE SKELLY; GRAYBURG 50350

Work Type	Well Type	Cable/Rotary	Lease Type	Ground Level Elevation
New Well	Oil		State	3482
Multiple	Proposed Depth	Formation	Contractor	Spud Date
N	4100	Grayburg		1/27/2003

Proposed Casing and Cement Program

Туре	Hole Size	Casing Size	Casing Weight/ft	Setting Depth	Sacks of Cement	Estimated TOC
Surf	12.25	8.625	24	400	325	0
Prod	7.875	5.5	17	4100	825	0

Proposed Blowout Prevention Program

Туре	Working Pressure	Test Pressure	Manufacturer
Double Ram	2000	3000	Schaefer

	he information given above is true	OIL CONSERVATION DIVISION					
and complete to the t	est of my knowledge and belief.	Electronically Approved By: Paul Kautz					
Electronically Signed	By: Larry Rader	Title: Geologist					
Title: Technical Co	ordinator	Approval Date: 1/22/2003 Expiration Date: 1/22/2004					
Date: 1/14/2003	Phone: 918-491-4811	Conditions of Approval: There are conditions. See Attached.					

1/22/2003



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-102

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

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number	Pool Name	Pool Code
30-25-36114	PENROSE SKELLY;GRAYBURG	50350
Property Code	Property Name	Well No.
16814	DC HARDY	006
OGRID No.	Operator Name	Elevation
873	Apache Corporation	3482

Surface And Bottom Hole Location

UL or Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
O	20	21S	37E		330	S	1330	E	Lea
Dedicated Acres Joint 40		Joint or	Infill	Consoli	dation Code		Order 1	No	

OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief. Electronically Signed By: Larry Rader Title: Technical Coordinator Date: 1/14/2003
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. Electronically Signed By: RONALD EIDSON Date of Survey: 11/27/2002 Certificate Number: 3239

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APD Comments

Operator:873 Apache CorporationWell:DC HARDY 006

User Name	Comment	Comment Date
LERADER	We have filed the NSL application on this well and will fax a copy of the NSL application to the District Office.	1/13/2003

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APD Conditions Of Approval

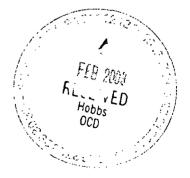
Operator:873 Apache CorporationWell:DC HARDY 006

OCD Reviewer	Condition					
DMULL	NSL-4830 (SD)					
DMULL	To drill well requires NSL order approved in Santa Fe.					

	bmit 3 Copies To Approp	oriate District		State (ofNew	Mexi	со					Form C	-10
	fice strict I		Ene	rgy, Minera							Revis	ed March 25	i, 199
	25 N. French Dr., Hobbs,	NM 88240							ELL AF		21		
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Dis	strict III		0	1220 So	uth St. J	Franc	is Dr.	5.			of Lease		
	00 Rio Brazos Rd., Aztec strict IV	, NM 87410		Santa	Fe, NM	1 875	05			ATE C	as Lease	EE EX	
	20 S. St. Francis Dr., San	ta Fe, NM 8750	15		·			6.	State		ras Leas	; INO.	
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	OPOSALS.) Type of Well:												
		Gas Well	<u> </u>	Other									
2.	Name of Operator							8.	Well N		_		
3.	Address of Opera 6120 S. YAL	tor TWO W	CORPOR	PLACE, SU	JITE 1	500			Pool na			CDAVDID	
4.		E IULSA	1, UK 74	4136-4224	•				FENRO	SE SK	<u>, i i i i i i i i i i i i i i i i i i i</u>	GRAYBUR	G
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	Unit Letter	······································		_feet from th			line and _	155		teet from	m the		_line
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DC HARDY #6 WELL: 30-025-36114 API#

- 2/4/2003 MIRU CAPSTAR RIG #8. SPUD 12-1/4" HOLE @ 11:00 A.M. 2/3/03. DRILL & SURVEY TO 411'. RIH W/ 8-5/8" 24# J55 CASING. CEMENT SHOE @ 411' W/ 325 SX CLASS C + 2% CACL + 0.125 #/SX CELLO FLAKE=78 BBLS 14.8 PPG SLURRY W/ 1.35 CF/SX YIELD. CIRC 79 SX CEMENT TO PIT. WOC.
- 2/3/03 2/7/03 DRILL & SURVEY 411' 3789'.
 - 2/8/2003 DRILL 3789' 4100'. RUN LOGS.
 - 2/9/2003 RIH W/ 5-1/2" 17# J55 CASING W/17 CENTRALIZERS. CEMENT SHOE @ 4100' W/ 500 SX 50:50 POZ:CLASS C W/10% GEL + 5% SALT + 0.125#/SX CELLO FLAKE + 0.003 GPS FP-6L=217 BBLS. 11.8 PPG SLURRY W/ 2.44 CF/SX YIELD. TAIL W/ 250 SX 50:50 POZ:CLASS C W/2% GEL + 5% SALT + 0.003 GPS FP-6L=57 BBLS 14.2 PPG SLURRY W/ 1.29 CF/SX YIELD. BUMPED PLUG & HELD. CIRC 157 SX CMT TO PIT. CUT OFF CSG. RELEASE RIG 2/9/03 10:00 A.M.



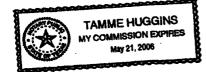
Apache Corporation 6120 S. Yale Ste 1500 Tulsa, OK 74136

D.C. Hardy #6 Lea County, New Mexico 0-20-125-37e 330/54 1330/E 30-025-36114

193	1.93	1/2	0.88	1.69	1.69
411	2.18	1	1.75	3.82	5.50
852	4.41	1	1.75	7.72	13.22
1166	3.14	1/2	0.88	2.75	15.97
1568	4.02	3/4	1.31	5.28	21.25
2003	4.35	1	1.75	7.61	28.86
2441	4.38	1 1/2	2.63	11.50	40.36
2910	4.69	1 1/2	2.63	12.31	52.67
3377	4.67	3/4	1.31	6.13	58.80
3688	3.11	1 1/4	2.19	6.80	65.60
4100	4.12	3/4	1.31	5.41	71.01
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Michael Roghair - General Manager

The attached instrument was acknowledged before me on the 10^{46} day of wany-2003 by Michael Roghair - General Manager, CapStar Drilling, L.P.



Notary Public Notary Public angelah 2/17/03 APACHE CORPORATION

<u>District I</u> 1625 N. French Dr.	Hobbs, N	NM 88240	Fnergy		e of New Me rals and Natu				Revi	Form C- sed June 1, 2
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000 Rio Brazos Ro <u>District IV</u>	a., 12, .	NM 0/410		Sam	a Fe, NM 8'	/202				ED REPOR
	ncis Dr., S	anta Fe, NM 87505								
Operator Name and Add	dress	<u>l</u>	REQUEST FOR ALL	LOWAD	LE AND AUT	HORIZA	ION TU IKA	NSPORT COGRID Num	aber	
APACHE	CORPO								000873	
		E, SUITE 150							iling Code / Effective Date	•
TULSA, O API Number	KLAHU	<u>)MA 74136-42</u> 2	24	' Pool	Name		<u></u>		7 - 02/18/03 Pool Code	
30-025-36	114		Penro	se Skel	llv: Gravburs	g		 	5035 Vell Number	0
Property Code 16814					ty Name Hardy				Velt Number 6	
П.	° Sur	face Location								
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Ul or lot no.	Section	Township		Lot. Idn	Feet from the	North/Sout	h line	Feet from the	East/West line	Count
12 Lse Code	" Proc	ducing Method Code	¹⁴ Gas Connection Date	<mark>ا ت</mark> ع	29 Permit Number	┶╌┲┈	¹⁰ C-129 Effectiv	re Date	" C-129 Expin	ation Date
<u>P</u>	L	P	2/18/03					l		
III. Oil and Ga	is Transj T		orter Name		²⁰ POD	²¹ O/G		²² PO	D ULSTR Location	
OGRID		and A	Address					an	d Desciption	
015694		Refining Com	pany		2479110	0			1S, R-37E	
	PO Bo Artesia	a, New Mexico	88210				D C Hard	y Battery		
024650		y Midstream Se			2479130	G	Unit P, Se	c. 20, T-2	1S, R-37E	
		a Drive, Suite 3					D C Hard	v Battery		
	Midlan	nd, Texas 7970	15					-		
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IV. Produced V	Water		24 POD ULSTR Loca			-		1-	Hobbs	<u> </u>
² POD 2479150	Un	it P. Sec. 20. T	-21S. R-37E. DC		-			1	OCD	8
V. Well Com	pletion I	Data							<u> </u>	
		2º Ready Date	4100t		* PBTD		"Perforation		The state of the s	MC
²⁷ Spud Date 2/3/2003		2/18/03	1 4100		4058		- 3/38 - 3	930		
2/3/2003 "Hole Size			4100' & Tubing Size		4058' "Depth Set		3738 - 3	3	* Sacks Cement	
2/3/2003 ³¹ Hole Size 12	-1/4	Casing 8	Tubing Size		"Depth Set 411		325 sx / c	irc. 79 sx 1	to pit	
2/3/2003 ³¹ Hole Size		²² Casing 8 8 5	• Tubing Size -5/8 -1/2		³⁷ Depth Set 411 4100	I		irc. 79 sx 1	to pit	
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ee Lease-S copies					·				Form C
625 N. French Dr., Hobbs, N	M 88240					· .	WELL API NO.	Revi	ised March 25,
<u>ISTRICT II</u> 11 South First, Artesia, NM 1	88210		OIL CONSE	RVATION	DIVISIO	DN ·	30-025-36	5114	
<u>ISTRICT III</u> 000 Rio Brazos Rd., Aztec, N	134 97410			th St. France Fe, NM 87			5. Indicate Type of Lease		
NOT NO BEEZOS NO., AZIEC, N NISTRICTIV	(Fi 0/410		Salla	110, 14141 07	505		6. State Oil & Gas Lesse		
220 South St. Francis Dr., Sa	nta Fe, NM 87505 L COMPLETIC		COMPLETIO	NPRODT	ANDI				
a. Type of Well:	LCOMFLETIC		COMPLETIO	IN KLI OKI		<u> </u>	7. Lease Name or Unit Ap	greement Name	
OIL WELL	GAS W			OTHER				D C Hardy	
New Well	Workover	Deepen	Plug Bac	tk Diff	f. Resvr.	Other		· .	
Apache Corporati	ion		•	•			8. Well No.	6	
Address of Operator							9. Pool name or Wildcat		<u> </u>
6120 South Yale, Well Location	Suite 1500 T	ulsa, Okla	homa 74136-4	224 918-4	491-4957		Penrose Skelly	; Grayburg	
Unit Letter		330	Feet From The	South	Line and	1330	Feet From The	East Line	
Section	20 Towns 11. Date T.D. Reached		21S Date Compl. (Ready to P.	Range	37E	NMPM		casinghead	<u> </u>
2/3/2003	2/8/03 16. Ping Back T.D.		2/18/0		l ·	3482'	GR Rotury Tools	Cable Tools	
4100'	40.	58'	Many Zones?		•	Drilled By]		
19. Producing Interval(s), of i Grayburg 3738'		ttom, Name					20. Was	Directional Survey Made	
21. Type Electric and Other I CZD-CNL-GRL,	logs Run					·····	22. Was Well Cored		
ZD-CNL-GRL,	DEL-ORL	<u> </u>					L		
CASING SIZE	WEIGHT LB	JET.	CASING RI	ECORD (R. HOLE		strings set in CEMEN	well) TING RECORD	AMOL	NT PULLED
8-5/8	24#		411	12-1/	/4	325 sx / circ. '	79 sx to pit		
5-1/2	17#		4100	7-7/	8	750 sx / circ.	157 sx to pit		
							•	· · · · · · · · · · · · · · · · · · ·	
24.		INER RECO			25.		TUBIN	IG RECORD	
24. SIZE		INER RECO	RD SACKS CEMENT	SCREEN	25.	<u>SIZE</u> 2-3/8	DEPTH SET		CKERSET
24. SZ/E				SCREEN	25.	<u>stze</u> 2-3/8	TUBIN DEPTH SET 3980'		ICKER SET
	TOP B	OTTOM		SCREEN	27. AC	2-3/8 1D, SHOT, FRACI	JEPTH SET 3980' TURE, CEMENT, SO	QUEEZE, ETC.	
26. Perforation record Grayburg - 3738	TOP B6 (interval, size, and 3-42, 3764-68,	mmber)	SACKS CEMENT	SCREEN	27. AC	2-3/8	DEPTH SET 3980' TURE, CEMENT, SI AMO Acidized w/ 2302 (QUEEZE, ETC. DUNT AND KIND MATERIA Jals 15% HCL	L USED
26. Perforation record	TOP B6 (interval, size, and 3-42, 3764-68,	mmber)	SACKS CEMENT	SCREEN	27. AC	2-3/8 ID, SHOT, FRACI	DEPTH SET 3980' TURE, CEMENT, SI AMO Acidized w/ 2302 (QUEEZE, ETC. UNT AND KIND MATERIA Jals 15% HCL Is gcl& \$1000#-15/30	L USED
26. Perforation record Grayburg - 3738 3880-84, 3900-10	TOP B6 (interval, size, and 3-42, 3764-68,	mmber)	SACKS CEMENT	SCREEN	27. AC	2-3/8 ID, SHOT, FRACI	URE, CEMENT, SI Acidized w/ 2302 (Frac'd w/ 38002 ga	QUEEZE, ETC. UNT AND KIND MATERIA Jals 15% HCL is gcl & \$1000#-10/30	LUSED
26. Perforation record Grayburg - 3738 3880-84, 3900-10	TOP B6 (interval, size, and 3-42, 3764-68,	mmber)	SACKS CEMENT	SCREEN	27. AC	2-3/8 ID, SHOT, FRACI	DEPTH SET 3980' URE, CEMENT, St Additized w/ 2302 (Frac'd w/ 38002 ga	PA QUEEZE, ETC. UNT AND KIND MATERIA Jals 15% HCL Is gel & \$2000#-15/30	LUSED
26. Perforation record Grayburg - 3738 3880-84, 3900-10	TOP B6 (interval, size, and 3-42, 3764-68,	mmber)	SACKS CEMENT	SCREEN	27. AC	2-3/8 ID, SHOT, FRACI	DEPTH SET 3980' URE, CEMENT, SC AMO Acidized w/ 2302 (Prac'd w/ 38002 ga	PA QUEEZE, ETC. Junt and kind materia Jals 15% HCL Lis gcl & RU00000000000000000000000000000000000	LUSED
26. Perforation record Grayburg - 3738 3880-84, 3900-10	TOP B6 (interval, size, and 3-42, 3764-68,	mmber)	SACKS CEMENT	SCREEN	27. AC	2-3/8 ID, SHOT, FRACI	DEPTH SET 3980' URE, CEMENT, SU Acidized w/ 2302 (Prac'd w/ 38002 ga	PA QUEEZE, ETC. UNT AND KIND MATERIA Jals 15% HCL Is gel & \$2000#-15/30	LUSED
26. Perforation record Grayburg - 3738 3880-84, 3900-10	TOP B6 (interval, size, and 3-42, 3764-68,	mmber)	SACKS CEMENT	SCREEN	27. AC	2-3/8 ID, SHOT, FRACI	DEPTH SET 3980' URE, CEMENT, SC AMO Acidized w/ 2302 (Frac'd w/ 38002 ga	AR 2003	
26. Perforation record Grayburg - 3738	TOP B6 (interval, size, and 3-42, 3764-68,	mmber)	SACKS CEMENT			2-3/8 ID, SHOT, FRACI	DEPTH SET 3980' URE, CEMENT, SC AMO Acidized w/ 2302 (Frac'd w/ 38002 ga	A A A A A A A A A A A A A A	LUSED
26. Perforation record Grayburg - 3738 3880-84, 3900-16 4" - 88 holes 28. Date First Production	TOP B6 (interval, size, and 3-42, 3764-68,	mmber)	SACKS CEMENT 1864-66, Production Meth	PRODUC od (Flowing, gas U/A	27. AC D	2-3/8 1D, SHOT, FRACI PTH INTERVAL 3738 - 3930 	DEPTH SET 3980' URE, CEMENT, SC AMO Acidized w/ 2302 (Frac'd w/ 38002 ga	PA QUEEZE, ETC. UNT AND KIND MATERIA Jals 15% HCL Lis gcl & SU0000 Jp/30 KAR 2003 KECEIVED Hobbs OCD Well Samue (Prod. for Shurd)	LUSED
26. Perforation record Grayburg - 3738 3880-84, 3900-16 4" - 88 holes 4" - 88 holes 28. Date First Production 2/18/03 Date of Test	TOP Bi (interval, size, and 3-42, 3764-68, 56, 3920-30	mmber) 3832-36, 3	SACKS CEMENT 1864-66, Production Meth Pu ke Size Pro	PRODUC od (Flowing, pas Hf umping - 1.5 dn For	27. AC D	2-3/8 2D, SHOT, FRACI EPTH INTERVAL 3738 - 3930 2010 20	DEPTH SET 3980' TURE, CEMENT, SI Acidized w/ 2302 (Prac'd w/ 38002 ga (C C C C C C C C C C C C C	PA QUEEZE, ETC. DINT AND KIND MATERIA Jals 15% HCL Is gel & g1000#-15/30 AN AAR 2003 REDEIVED HODDS OCD Well Status (Prod. for Shut.in Producin Gas - Od	LUSED
26. Perforation record Grayburg - 3738 3880-84, 3900-16 4" - 88 holes 4" - 88 holes 28. Date First Production 2/18/03 Date of Test 2/25/03	TOP Ba	mmber) 3832-36, 3	SACKS CEMENT 1864-66, Production Meth Pu ke Size Pro	PRODUC od (Flowing, sas U/ umping - 1.5	27. AC D	2-3/8 ID, SHOT, FRACI EPTH INTERVAL 3738 - 3930 3738 - 3930 its and type pump) Sert	DEPTH SET 3980' URE, CEMENT, SU AMO Acidized w/ 2302 (Prac'd w/ 38002 ga (C C C C C C C C C C C C C	Vel Sume (Prod. for Shured)	LUSED
26. Perforation record Grayburg - 3738 3880-84, 3900-16 4" - 88 holes 28. Date First Production 2/18/03 Date of Test 2/25/03 Flow Tubing Press.	TOP Bit I (interval, size, and	mimber) 3832-36, 3 Cho Calculated 24- Hour Rate	Production Meth Production Meth Pu ke Size Pro-	PRODUC od (Flowing, cat HA umping - 1.5 da For t Period	27. AC D	2-3/8 2-	DEPTH SET 3980' TURE, CEMENT, SI Acidized w/ 2302 (Prac'd w/ 38002 ga (C C C C C C C C C C C C C	PA QUEEZE, ETC. DINT AND KIND MATERIA Jals 15% HCL Is gel & g1000#-15/30 AL HAR 2003 REDENVED Hobbs OCD Well Saints (Prod. for Shut.) Well Saints (Prod. for Shut.) Cas - Oil 210	LUSED
26. Perforation record Grayburg - 3738 3880-84, 3900-10 4" - 88 holes 28. Date First Production 2/18/03 Date of Test 2/25/03 Flow Tubing Press. 29. Disposition of Gas (Sold, Sold	TOP Bit I (interval, size, and	mimber) 3832-36, 3 Cho Calculated 24- Hour Rate	Production Meth Production Meth Pu ke Size Pro-	PRODUC od (Flowing, cat HA umping - 1.5 da For t Period	27. AC D	2-3/8 2-	DEPTH SET 3980' TURE, CEMENT, SI Acidized w/ 2302 (Prac'd w/ 38002 ga (C C C C C C C C C C C C C	PA OUPEZE, ETC. OUNT AND END MATERIA Jals 15% HCL Is gcl & SU000#-15/30 MAR 2003 RECEIVED Hobbs OCD C. Well Sams (Prod. for Shut.si Producin Cas - Oil Cas - Oil C	LUSED
26. Perforation record Grayburg - 3738 3880-84, 3900-10 4" - 88 holes 28. 28. 28. 24. 24. 24. 25. 25. 25. 25. 27. 27. 27. 27. 27. 27. 27. 27. 27. 27	TOP Bi TOP Bi I (interval, size, and 3-42, 3764-68, 6, 3920-30 Hours Tested 24 Casing Pressure , used for Juci, vented, sice / C-104	mumber) 3832-36, 3 3832-36, 3 Calculated 24- Hour Rate	SACKS CEMENT 1864-66, Production Meth Pu ke Size Frod Test Oil - Bbl	PRODUC od (Flowing, gas Hf umping - 1.5 dn For t Period Gas -]	27. AC D	2-3/8 1D, SHOT, FRACI PTH INTERVAL 3738 - 3930 ite and type pump) Sert Gas - MCF 200 Water - Bbl 1	DEPTH SET 3980' URE, CEMENT, SI Addited w/ 2302 (Prac'd w/ 38002 ga (Prac'd w/ 38002 ga (N	PA OUPEZE, ETC. OUNT AND END MATERIA Jals 15% HCL Is gcl & SU000#-15/30 MAR 2003 RECEIVED Hobbs OCD C. Well Sams (Prod. for Shut.si Producin Cas - Oil Cas - Oil C	LUSED
26. Perforation record Grayburg - 3738 3880-84, 3900-10 4" - 88 holes 24" - 88 holes 28. Date First Production 2/18/03 Date of Test 2/25/03 Flow Tubing Press. 29. Disposition of Gas (Sold,	TOP Bi I (interval, size, and 3-42, 3764-68, 5 5, 3920-30 Hourn Tested 24 Casing Pressure , used for fuel, vented, ac / C-104 information shown on be	mumber) 3832-36, 3 3832-36, 3 Calculated 24- Hour Rate	SACKS CEMENT 1864-66, Production Meth Pu ke Size Frod Test Oil - Bbl	PRODUC od (Flowing, gas lift imping - 1.5 dn For t Period Gas - 1 gas - 1	27. AC D	2-3/8 2-3/8 2-3/8 2-3/8 2-3/8 2-3/8 2-3/8 2-3/8 200 Water - Bbl 1 bell of	DEPTH SET 3980' URE, CEMENT, SI Adidized w/ 2302 (Prac'd w/ 38002 ga (CO (C	PA OUPEZE, ETC. OUNT AND END MATERIA Jals 15% HCL Is gcl & SU000#-15/30 MAR 2003 RECEIVED Hobbs OCD C. Well Sams (Prod. for Shut.si Producin Cas - Oil Cas - Oil C	LUSED Sand Sand Co Co Co Co Co Co Co Co Co Co

INSTRUCTIONS

This form is to filed with the appropriate District Office of the Division Office not later than 20 days after the completion of any newly-drilled or deepened well. It shall be accompanied by one copy of all electrical and radio-activity logs run on the well and a summary of all special tests conducted, including drill stem tests. All depths reported shall be measured depths. In the case of directionally drilled wells, true vertical depths shall also reported. For multiple completions, items 25 through 29 shall be reported for each zone. The form is to be filed in quintuplicate except on state land, where six copies are required. See Rule 1105.

INDICATE FORMATION TOPS IN CONFORMANCE WITH GEOGRAPHICAL SECTION OF STATE

	3	Southeastern 1	New	MEXICO			Northwestern 1	New Mexico
T. Anhy			Т.	Canyon		T. Ojo Alamo	· · · · ·	Т. Репп. "В"
T. Salt			Т.	Strawn	,	T. Kirtland-Fruitla	und	T. Penn. "C"
B. Salt			Т.	Atoka	, ,	T. Pictured Cliffs		T. Penn. "D"
T. Yates		2595	Т.	Miss		T. Cliff House		T. Leadville
T. 7 Rivers		2853	Т.	Devonian		T. Menefee		T. Madison
T. Queen		3384	Т.	Silurian		T. Point Lookout		T. Elbert
T. Grayburg		3659	Т.	Montoya		T. Mancos		T. McCracken
T. San Andre	s	3989	Т.	Simpson		T. Gallup		T. Ignacio Otzte
T. Glorieta			T.	McKee		Base Greenhorn		T. Granite
T. Paddock		<u> </u>	Т.	Ellenburger	·	T. Dakota		T.
T. Blinebry				Gr. Wash		T. Morrison		Т.
T. Tubb			T.	Delaware Sand		T. Todilto		Т.
T. Drinkard			T.	Bone Springs		T. Entrada		T.
T. Abo			Т.	Rustler	1218	T. Wingate		T. .
T. Wolfcamp)		Т.		فتستعلقا الألفا فيا الكري	T. Chinle		Т.
T. Penn			Т.		····	T. Permain		Т
T. Cisco (Bo	ugh C)		Т.			T. Penn "A"		т.
-				OIL OR	GAS SANI	DS OR ZONÉ	ES	· · ·
No. 1, from			to		No. 3, from	. •	88 66 66 6 6 6 6 6 7 6 6 7 6 6 7 6 6 7 6 6 7 5 8 7 5 8 7 6 7 6 6 7 6 6 7 6 6 7 6 7 6 7 6 7 6	to
No. 2, from		***************************************	to	******	No. 4, from	**************************************	80 00 9 4 9 9 4 9 1 9 1 9 1 9 1 9 9 9 9 9 9 9	• ••••••••••••••••••••••••••••••••••••
		er inflow and ele	1624 H 14 B	to	**************************************	******	feet	
	109 UC GALLO TO AZÓ ZOSA G	I	ITI	IOLOGY RECO	CD (Attach	additional she	et if necessary)	<u>Manan ma 1999 a da da da manan di ang da ang da</u>
		Thickness in						
From	To	Feet		Lithology	From	То	Thickness in Feet	Lithology

e s - *.

Form C-101

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

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State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division 1220 S. St Francis Dr. Santa Fe, NM 87505

APPLICATION FOR PERMIT TO DRILL

Apache Corpora	Operator Name and Address	OGRID Number 873
Two Warren Pla Tulsa, OK 741	ace, Suite 1500	API Number 30-25-36378
Property Code 16814	Property Name DC HARDY	Well No. 007

Surface Location

UL or Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
0	20	21S	37E		990	S	2310	E	Lea

Proposed Pools

PENROSE SKELLY; GRAYBURG 50350

Work Type	Well Type	Cable/Rotary	Lease Type	Ground Level Elevation
New Well	Oil		Private	3490
Multiple N	Proposed Depth 4800	Formation Grayburg	Contractor	Spud Date

Proposed Casing and Cement Program

Туре	Hole Size	Casing Size	Casing Weight/ft	Setting Depth	Sacks of Cement	Estimated TOC
Surf	12.25	8.625	24	400	325	0
Prod	7.875	5.5	17	4800	930	0

Proposed Blowout Prevention Program

Туре	Working Pressure	Test Pressure	Manufacturer
Double Ram	2000	3000	

I hereby certify that the information given above is true	OIL CONSERVATION DIVISION
and complete to the best of my knowledge and belief.	Electronically Approved By: Chris Williams
Electronically Signed By: Larry Rader	Title: District Supervisor
Title: Technical Coordinator	Approval Date: 8/22/2003 Expiration Date: 8/22/2004
Date: 8/19/2003 Phone: 918-491-4811	Conditions of Approval: No Conditions

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

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State of New Mexico Energy, Minerals and Natural Resources

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

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number	Pool Name	Pool Code
30-25-36378	PENROSE SKELLY;GRAYBURG	50350
Property Code	Property Name	Well No.
16814	DC HARDY	007
OGRID No.	Operator Name	Elevation
873	Apache Corporation	3490

Surface And Bottom Hole Location

UL or Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
O	20	21S	37E		990	S	2310	E	Lea
	ed Acres 10	Joint or	Infill	Consoli	dation Code		Order 1	ło.	

) i	
		OPERATOR CERTIFICATION
17 A)) 16 A)) 16 A)		I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.
		Electronically Signed By: Larry Rader
n-mental transmission		Title: Technical Coordinator
	**************************************	Date: 8/19/2003
The second state of the se		
	1	
r Jan Contractor		SURVEYOR CERTIFICATION
		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.
		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
		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 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. Electronically Signed By: Ronald Eidson

Office	o Appropriate District		f New Me			Form C-103
<u>District I</u>		Energy, Minerals	s and Natu	ral Resources		Revised March 25, 1999
	, Hobbs, NM 88240				WELL API NO. 30	-025-36378
	e., Artesia, NM 88210	OIL CONSER			5. Indicate Type	of Lease
District III	d., Aztec, NM 87410		. French I		STATE	🗌 FEE 🛛
District IV	1., Aztec, INIVI 87410	Hobbs	s, NM 882	240	6. State Oil & C	
1220 S. St. Francis	Dr., Santa Fe, NM					
87505	SUNDRY NOTIO	CES AND REPORTS C	ON WELLS		7. Lease Name o	r Unit Agreement Name:
(DO NOT USE TH		SALS TO DRILL OR TO DE				
	BRVOIR. USE "APPLIC	ATION FOR PERMIT" (FO	RM C-101) FC	OR SUCH	D	CHARDY
PROPOSALS.)	u.					
1. Type of We Oil Well		Other				
2. Name of C					8. Well No.	
	CORPORATION					7
3. Address of				····	9. Pool name or	Wildcat
	h Yale, Suite 1500	Tulsa, OK	74136		PENROSE SKEI	LY; GRAYBURG
4. Well Loca						
						1
Unit L	etter <u>0 : 990</u>	feet from the	<u>TH</u> li	ne and <u>2310</u>	feet from the <u>EA</u>	<u>ST</u> line
- ·	• •	m ()	-	0.57		A
Sectio	n: 20	Township: 21S		: 37E	NMPM	County: LEA
		10. Elevation (Show			tc.)	
		L	3490			
		ppropriate Box to I	ndicate N		-	
	NOTICE OF IN			ş	BSEQUENT RE	
PERFORM RE	MEDIAL WORK 🗌	PLUG AND ABANDO		REMEDIAL WOR	як 🛛	ALTERING CASING
TEMPODADU		OLIANOF DI ANO	-	OOM SHOE DE		
TEMPORARIL		CHANGE PLANS		COMMENCE DF		PLUG AND
PULL OR ALT		MULTIPLE		CASING TEST A	ND	
		COMPLETION	· · ·	CEMENT JOB		∎ La nación des la constantia de la la constantia La constantia de la constantia de la constantia de la constantia
OTHER:				OTHER: SPUD,	SURF. CSG., TD, L	og, prod. CSG.
12 Describe n	conosed or complete	operations (Clearly s	tate all nort	inent details and a	ive pertinent dates	including estimated date of
		E RULE 1103. For Mu				
recompilation		LICELINGS. I OF WA	unple com	predons. Adaen w	choole diagram of	proposed completion of
8/5/04	9:00 AM - NOTIFY NN	AOCD INTENT SPUD. SPU	JD 12 1/4" HO	LE. DRILL & SURVE	100000000000000000000000000000000000000	403 19 8 5/8" 24\$ J55 ST&C
		LUG TO 370 W/ 23 BFW - 0			אל בי ארי איז איז איז איז איז איז איז איז איז אי	HS 14.8# SEURRY W/ 1.35
					19	5
					/ <u>'</u> V	
3/6/04 - 3/11/04	DRILL & SURVEY FR	COM 400' – 4350'.			20 V	000
	HALLIBURTON RAN	BOREHOLE COMPENSAT	TED SONIC L	OG 4294-3300: DUAL	LATEROLOG MICRO	SPHERICALLY POCUSEDLOG
	HALLIBURTON RAN 4340-3300; DUAL-SPA	BOREHOLE COMPENSAT	AL DENSITY	LOG 4269-200. RIH 9	LATEROLOG MICRO 7 JTS 4359.34' 5 141" 17	SPHERICALLY POCUSED LOG
	HALLIBURTON RAN 4340-3300; DUAL-SPA CENTRALIZERS. BJ	BOREHOLE COMPENSAT ACED NEUTRON SPECTRA CMT. SHOE @ 4350 - FC @	AL DENSITY 9 4302 W/ 600	LOG 4269-200. RIH 9 SX 50:50 POZ W/ 109	LATEROLOG MICRO 7 JTS 4359.34' 5 121 17 6 GEL + 5% SALTER .12	SPHERICALLY POCUSED LOG # K65 LT&C CSG. W/ 16 7 5#/SX OR 201 BBLS. 11.8#/
	HALLIBURTON RAN 4340-3300; DUAL-SPA CENTRALIZERS. BJ SLURRY W/ 2.44 YIE	BOREHOLE COMPENSAT	AL DENSITY 9 4302 W/ 600 7 2% GEL + 59	LOG 4269-200. RIH 9 SX 50:50 POZ W/ 109 & SALT = 69 BBLS. 14	LATEROLOG MICRO 7 JTS 4359.34' 5 121 17 6 GEL + 5% SALTER .12	SPHERICALLY POCUSED LOG # KASLING CSG. W/ 16 5#/SX ORT 201 BBLS. 11,8# TELD - PLUG BUMPED &
	HALLIBURTON RAN 4340-3300; DUAL-SPA CENTRALIZERS. BJ SLURRY W/ 2.44 YIE	BOREHOLE COMPENSAT ACED NEUTRON SPECTRA CMT. SHOE @ 4350 - FC @ LD & 300 SX 50:50 POZ W/ . CMT. TO PIT - DISPLACE	AL DENSITY 9 4302 W/ 600 7 2% GEL + 59	LOG 4269-200. RIH 9 SX 50:50 POZ W/ 109 & SALT = 69 BBLS. 14	LATEROLOG MICRO 7 JTS 4359.34' 5 121 17 6 GEL + 5% SALTER .12	SPHERICALLY FOCUSED UOG # KOS LINEC CSG. W/ 16 5#/SX CHT 201 BBLS. 11.8# TELD - FLUG BUMPED &
	HALLIBURTON RAN 4340-3300; DUAL-SPA CENTRALIZERS. BJ SLURRY W/ 2.44 YIE HELD - CIRC. 153 SX	BOREHOLE COMPENSAT ACED NEUTRON SPECTRA CMT. SHOE @ 4350 - FC @ LD & 300 SX 50:50 POZ W/ . CMT. TO PIT - DISPLACE	AL DENSITY 9 4302 W/ 600 7 2% GEL + 59	LOG 4269-200. RIH 9 SX 50:50 POZ W/ 109 & SALT = 69 BBLS. 14	LATEROLOG MICRO 7 JTS 4359.34' 5 121 17 6 GEL + 5% SALTER .12	SPHERICALLY FOCUSED UOG # KOS LINEC CSG. W/ 16 5#/SX CHT 201 BBLS. 11.8# TELD - FLUG BUMPED &
	HALLIBURTON RAN 4340-3300; DUAL-SPA CENTRALIZERS. BJ SLURRY W/ 2.44 YIE HELD - CIRC. 153 SX	BOREHOLE COMPENSAT ACED NEUTRON SPECTRA CMT. SHOE @ 4350 - FC @ LD & 300 SX 50:50 POZ W/ . CMT. TO PIT - DISPLACE	AL DENSITY 9 4302 W/ 600 7 2% GEL + 59	LOG 4269-200. RIH 9 SX 50:50 POZ W/ 109 & SALT = 69 BBLS. 14	LATEROLOG MICRO 7 JTS 4359.34' 5 121 17 6 GEL + 5% SALTER .12	SPHERICALLY POCUSED LOG # KASLING CSG. W/ 16 5#/SX OFF 201 BBLS. 11,8# TELD - PLUG BUMPED &
	HALLIBURTON RAN 4340-3300; DUAL-SPA CENTRALIZERS. BJ SLURRY W/ 2.44 YIE HELD - CIRC. 153 SX	BOREHOLE COMPENSAT ACED NEUTRON SPECTRA CMT. SHOE @ 4350 - FC @ LD & 300 SX 50:50 POZ W/ . CMT. TO PIT - DISPLACE	AL DENSITY 9 4302 W/ 600 7 2% GEL + 59	LOG 4269-200. RIH 9 SX 50:50 POZ W/ 109 & SALT = 69 BBLS. 14	LATEROLOG MICRO 7 JTS 4359.34' 5 121 17 6 GEL + 5% SALTER .12	SPHERICALLY FOCUSED UOG # KOS LINEC CSG. W/ 16 5#/SX CHT 201 BBLS. 11.8# TELD - FLUG BUMPED &
3/12/04	HALLIBURTON RAN 4340-3300; DUAL-SPA CENTRALIZERS. BJ SLURRY W/ 2.44 YIE HELD - CIRC. 153 SX RELEASE RIG @ 4:00	BOREHOLE COMPENSAT ACED NEUTRON SPECTRA CMT. SHOE @ 4350 - FC @ LD & 300 SX 50:50 POZ W/ . CMT. TO PIT - DISPLACE D PM 3/12/2004	AL DENSITY 4302 W/ 600 2% GEL + 59 W/ 2% KCL	LOG 4269-200. RIH 9 SX 50:50 POZ W/ 109 & SALT = 69 BBLS. 14 WATER.	.LATEROLOG MICRO 77 JTS 4359.34' 5 5 22" 17 8 GEL + 5% SALTA .12 1.2# SLURRY W/L 29 Y	SPHERICALLY FOCUSED UOG # KOS LINEC CSG. W/ 16 5#/SX CHT 201 BBLS. 11.8# TELD - FLUG BUMPED &
3/6/04 - 3/11/04 3/12/04 I hereby certify	HALLIBURTON RAN 4340-3300; DUAL-SPA CENTRALIZERS. BJ SLURRY W/ 2.44 YIE HELD - CIRC. 153 SX RELEASE RIG @ 4:00	BOREHOLE COMPENSAT ACED NEUTRON SPECTRA CMT. SHOE @ 4350 - FC @ LD & 300 SX 50:50 POZ W/ . CMT. TO PIT - DISPLACE	AL DENSITY 4302 W/ 600 2% GEL + 59 W/ 2% KCL	LOG 4269-200. RIH 9 SX 50:50 POZ W/ 109 & SALT = 69 BBLS. 14 WATER.	.LATEROLOG MICRO 77 JTS 4359.34' 5 5 22" 17 8 GEL + 5% SALTA .12 1.2# SLURRY W/L 29 Y	SPHERICALLY FOCUSED UOG # KOS LINEC CSG. W/ 16 5#/SX CHT 201 BBLS. 11.8# TELD - FLUG BUMPED &
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hereby certify SIGNATURE	HALLIBURTON RAN 4340-3300; DUAL-SP/ CENTRALIZERS. BJ SLURRY W/ 2.44 YIE HELD - CIRC. 153 SX RELEASE RIG @ 4:00 that the information a Mc Lub Gut me Michelle L. H	BOREHOLE COMPENSAT ACED NEUTRON SPECTRA CMT. SHOE @ 4350 - FC @ LD & 300 SX 50:50 POZ W/ . CMT. TO PIT - DISPLACE D PM 3/12/2004	AL DENSITY 4302 W/ 600 2% GEL + 59 W/ 2% KCL	LOG 4269-200. RIH 9 SX 50:50 POZ W/ 109 & SALT = 69 BBLS. 14 WATER. est of my knowled; Drilling Tech.	.LATEROLOG MICRO 77 JTS 4359.34' 5 5 22" 17 8 GEL + 5% SALTA .12 1.2# SLURRY W/L 29 Y	SPHERICALLY FOCUSED LOG # KOS LINEC CSC. W/ 16 5#SX OFF 201 BBLS. 11,8# TELD - PLUG BUMPED & C2207 61 81 LL9
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hereby certify	HALLIBURTON RAN 4340-3300; DUAL-SP/ CENTRALIZERS. BJ SLURRY W/ 2.44 YIE HELD - CIRC. 153 SX RELEASE RIG @ 4:00 that the information a Michelle L. H State use)	BOREHOLE COMPENSAT ACED NEUTRON SPECTRA CMT. SHOE @ 4350 - FC @ LD & 300 SX 50:50 POZ W/ CMT. TO PIT - DISPLACE D PM 3/12/2004	AL DENSITY 4302 W/ 600 2% GEL + 59 W/ 2% KCL W/ 2% KCL	LOG 4269-200. RIH 9 SX 50:50 POZ W/ 109 & SALT = 69 BBLS. 14 WATER. est of my knowled Drilling Tech. Telep	LATEROLOG MICRO 7 JTS 4359.34' 5 12" 17 6 GEL + 5% SAITE 1.12 1.2# SLURRY WAL 29 Y ge and belief. DATE 3 1 bhone No. 918-491	SPHERICALLY FOCUSED LOG # KOS LINEC CSC. W/ 16 5#SX OFF 201 BBLS. 11,8# TELD - PLUG BUMPED & C2207 61 81 LL9

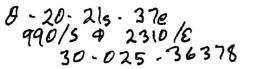
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WELL LOGS

A	PI number:	30-025-363	378						
	OGRID:		Operator:						
			Property:	DC HARD	Y			# 7	
surface	ULSTR:	0	20	Т	21S	R	37E		
		••	990	FSL	2310	FEL			
							•		
BH Loc	ULSTR:	0	20	Т	21S	R	37E		
	·	<u> </u>	990	FSL	2310				
		,		L	L <u></u>				
Gr	ound Level:	3490	DF:	3496	KB:	3497			
	Datum:	KB		L	TD:	4350			
					Completio	on Date: (1)	3/19/2004		
	Land:	STATE	I			s Received:	5/3/2004		
	Land.	JIAIL	l			Due in: (2)		Late	
	nfidential:	NO	1		Date Logs	Date out:	4/0/2004		
Cor						Date out:			
		period: 90 Da	-						
		(1) is equal (days				
	Logs		Depth in						
DSN/SDI			200				paced Neutr		
DLL/MSI	<u>FL</u>		3300				perically Focu	used Log	
BHC			3300	4294	Borehole C	ompensated	Sonic Log		
[
	,								
		OCD TOP	S						
Rustler		1218	Strawn						
Tansill		2460	Atoka						
Yates			Morrow						
7R		2860							
T. Bow	ers Sd	3177							
B. Bow		3250							
Queen		3386				l			
Penros	ρ	3494							
Grayburg		3636							
San And		3938							
Glorieta	00		·						
Gioribia		· · · · ·						·	
Tubb									
Drinkard									
Abo	·····		l						
Wolfcam									
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Apache Corporation 6120 S. Yale Ste 1500 Tulsa, OK 74136

D.C. Hardy #7 Lea County New, Mexico



191	1.91	1/4	0.44	0.84	0.84
370	1.79	3/4	1.31	2.35	3.19
846	4.76	1	1.75	8.33	11.52
1312	4.66	1 3/4	3.06	14.27	25.79
1594	2.82	1	1.75	4.94	30.72
2031	4.37	1 1/4	2.19	9.56	40.28
2439	4.08	1 1/2	2.63	10.71	50.99
2845	4.06	1	1.75	7.11	58.10
3315	4.70	2	3.50	16.45	74.55
3819	5.04	1	1.75	8.82	83.37
4350	5.31	1	1.75	9.29	92.66
				يترقحها أسترجه	

Michael Roghair - General Manager

The attached instrument was acknowledged before me on the $\underline{/5^{4h}}$ day of Marchandrightarrow 2004 by Michael Roghair - General Manager, CapStar Drilling, L.P.



zine Huggins blic Notary Public

<u>District I</u> 1625 N. French D)r., Hobbs, N	JM 88240		ate of New Me nerals and Natu		SOURCES			Reviser	Form d June 1	
District II	· · · · · · · · · · · · · · · · · · ·			/, 17414		nai ive	Sources				
B11 South First, A	Artesia, NM	88210			ISERVATION				Submit to	o Appropriate	
District III	-•••		1		South St. France		'e				5
1000 Rio Brazos District IV	Rd., Aztec, I	NM 87410		Sa	nta Fe, NM 8	7505		30-025-	363781		
<u>District IV</u> 1220 South St. Fi	rancis Dr., S	anta Fe, NM 87505						30-022) KEru
		-	REQUEST FOR AL	LLOW	ABLE AND AUTH	IORIZA	FION TO TH				
Operator Name and A								² OGRID Nu			
APACHE		RATION .E, SUITE 1500						³ Reason for 1	00087 Filing Code	5 / Effective Date	
		MA 74136-422							N-3/22/		
API Number		<u></u>			Pool Name				Pool Code		
30-025-30 Property Code	<u>6378</u>		Penro	<u>ose Sl</u>	kelly: Gravburg	<u>y</u>			Well Numbe	50350	
1681	4				C Hardy				W CI I VIIII	<u> </u>	
II.		face Location			<u></u>		· · · · · · · · · · · · · · · · · · ·			/	
Ul or lot no.		-	Range	Lot, Idn		North/Sou		7	1	ast/West line	Cou
0	<u>20</u>	21S tom Hole Locati	<u>37E</u>	L	990	<u> </u>	South	231	0	East	
Ul or lot no.				Lot. Idn	Feet from the	North/Sou	th line	Feet from the	E	ast/West line	Cou
		990									ł
¹² Lse Code	" Prod	lucing Method Code	^{1*} Gas Connection Da	ite 13	C-129 Permit Number		¹⁰ C-129 Effec	ctive Date		" C-129 Expiration	n Date
P III. Oil and G	l las Transi	<u> </u>	3/22/04)			,
18 Transporter		19 Transpor			²⁰ POD	²¹ O/G	Т	-	OD ULSTR		
OGRID		and Ac				+			nd Desriptio		
015694	2002	Refining Comp	any		2479110	0	· ·	Sec. 20, T-2	215, R-3	3/E	
	P O Bo		00010				D C Har	dy Battery			
024(50		, New Mexico					Unit D (200 10 T 1	10 D	275	
024650		y Midstream Ser			2479130	G		Sec. 20, T-2 dy Battery	213, N	3/E	
		a Drive, Suite 33					μспа	Dance y			
	Wittian	id, Texas 79705)			T	₫				
							8				
							8				
	<u></u>				-	T	<u></u>				
							a				
IV. Produced	Water					<u>; ;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;</u>	8	<u> </u>		A 30-23	<u>>.</u>
23 POD			²⁴ POD ULSTR Lo	cation an	d Description				{55}	5	
2479150) <u>Un</u>	it P. Sec. 20. T-2	<u>21S. R-37E. DO</u>	<u> Har</u>	dv Batterv				10		
V. Well Con ²⁷ Spud Date		²⁰ Ready Date	0 TD	—т	"PBTD		er Perfora	ations	78	A" DHC, MC	c
3/5/04		3/22/04	4350		4302		3832 -	1	4 23	Miller	
³¹ Hale S.	ize		Tubing Size		" Depth Set		I		Sacks Ce		
	2-1/4		5/8	<u> </u>	400			circ. 104 s			\mathcal{O}_{-}
	7-7/8		1/2	┣──	4350		<u> 900 sx /</u>	circ. 153 s	<u>x to pit</u>		
		<u> </u>	7/8	├──	4008	. <u> </u>			<u> </u>		
VI. Well Test	t Data			L			. .	·			<u> </u>
33 Date New C	a i	" Gas Delivery Date	Test Date	T	³⁸ Test Length		" Tbg. Pr	ressure		Csg. Pressu	ne
3/22/04		3/22/04	4/11/2004	<u> </u>	<u>24</u> **Gas						
⁴¹ Choke Size		25	* Water 279 .		268		* AC	DF		Test Metho	
47 I barahu antiñu	that the paler of	the Oil Conservation Divis		┢	200		CONSET	RVATION	DIVICI	Pumpin	2
		ove is true and complete to				OIL	CONSER	CVATION	DIV151	ON	
knowledge and peljef.								>		-	
Signature:	n (Cada.		A	pproved by:	5-		1-20	4	1	ר
	ma	<u>ucay</u>		<u> </u>	ide:		2000	ETROLED	M FNG		
Printed Name:	Kara C	loday 🔾								NTI VE-9-4 4	
Printed Name:					pproval Date:						
Printed Name:		and a second sec									
		gineering Techn	lcian	—					8 70	<u>116</u>	
Title:		Phone:	191-4957					JUN 1	8 20	04	

			21 t 10	N 1 1 1 1 1 1 1 1 1 1	1.81	and the second second				
•										
Submit to Appropriate District	Office	~		f New Mexi						
State Lease-6 copies		E	nergy, Mineral	s and Natura	al Reso	urces				
Fee Leuse-5 copies					,					Form C-10
DISTRICT I	M 19740				:				Day	rornt C-10.
625 N. French Dr., Hobbs, N	M 88240						WELL API NO.		KCV	ised March 25, 199
<u>DISTRICT II</u> 11 South First, Artesia, NM 3	8210		OIL CONSER			N		25-36378		
NSTRICT III				St. Francis			5. Indicate Type			
00 Rio Brazos Rd., Aztec, N	IM 87410			Fe, NM 875				STATE	FEE	
NSTRICT IV				· -,			6. State Oil & G	as Lease No.		
220 South St. Francis Dr., Sa										
WELI	L COMPLETIC	ON OR RE	COMPLETION	REPORT A	ND LO	OG				
a. Type of Well:							7. Lease Name o	or Unit Agreement I	Name	
	GAS W	al [THER				Л	C Hardy	
b. Type of Completion:		-		—		F1	1	D	Chardy	
New Well	Workover	Deepen	🗌 Plug Back	Diff.	Resvr.	Other				
. Name of Operator			·	·			8. Well No.			
Apache Corporati	on							7		
Address of Operator						_	9. Pool name or			
6120 South Yale,	Suite 1500 1	'ulsa, Okla	homa 74136-42	24 918-49	1-4957	/	Penrose S	kelly; Gray	burg	
, Well Location Unit Letter	O :	990	Feet From The	South	Line and	2310	Feet From The	Eas	t Line	
					37E	NMPM		County		
Section 10. Date Spudded	20 Towns 11. Date T.D. Reached		ate Compl. (Ready to Pro			ions (DF& RKB, RT, GR,		14. Elev. Casinghe	ad	
3/5/04	3/11/04		3/22/04	1		3490	GR	_		
5. Total Depth	16. Plug Back T.D.		17. If Multiple Compl. I	łow		18. Intervais	Rotary Tools		Cable Tools	
4350 19. Producing Interval(s), of t	43		Many Zones?			Drilled By	<u> </u>	20. Was Direction	al Sumura Mada	
Grayburg 3832-		III III III III III III III III III II						Dr. was Direction	a savey made	
21. Type Electric and Other I	logs Run						22. Was Well C	ored		
BCSL, DSN-SDL	., DLL-MSFL									
23.	14-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-									
CASING SIZE	WEIGHT LB	/CT	DEPTH SET	HOLE S		strings set in	Well)	חפר		JNT PULLED
8-5/8	24#		400	12-1/4		325 sx / circ.				
5-1/2	17#		4350	7-7/8		900 sx / circ.				
24. SIZE		INER RECORD	RD SACKS CEMENT	SCREEN	25.	SIZE		TUBING REC		ACKER SET
			SACING CLIMAN	GEREEN		2-3/8		008 000		
	<u> </u>		···		<u> </u>	2-5/0		11.0.1	30.3-	
26. Perforation record	(interval, size, and	number)			27. AC	LID, SHOT, FRAC	L	NTE SOUFEZ	E ETC.	
	• • •	•			D	EPTH INTERVAL	/ / /	AMOUNTAN	D KIND MATERIA	AL USED
Grayburg - 3832	2-36, 3915-18,	3921-26 w	2 JSPF (24 ho	oles)		3915-3926		1000 Gals 15		<u>a</u> /
					L	3832-3926		1000 Gals 15		
								000 gals set o		0 sanîd
									8	<u>M</u>
					<u> </u>			0		
								6	<u>1</u>)	<u>'/</u>
							<u> </u>	- 219	I GL TL'E	
							<u> </u>			
					 					
28.				DDODUC			<u> </u>			
28. Date First Production	<u> </u>	· · · · · · · · · · · · · · · · · · ·	Production Method	PRODUC		ize and type nump)	•	Weil Stat	us (Prod. or Shut-i	al
3/22/04				nping - 1.5 "					Produci	
Date of Test	Hours Tested	Cluol	te Size Prod'r		Dil - Bbl.	Gas MCF	Water - Bi	ol.	Gas - O	il Ratio
4/11/2004	24		Test P		25	268	279		107	
Flow Tubing Press.	Casing Pressure	Calculated 24- Hour Rate	Oil - Bbl.	Gas - Mi	0 F	Water · Bbl.		0	I Gravity - API - (0 36.4	iorr.)
29. Disposition of Gas (Sold,	i used for fuel, venied, eig		.1,	L		<u> </u>		Te	st Witnessed By	
Sold	-						Apache (Corporation		
30. List Attachments	10 104									V
Deviation Report 31. I hereby certify that the		the sides of this to	pn is the and country	a the best of our li	Jed	helief	•		. <u></u>	A
		L L	is it as and complete t	Printed			-	. .	m ,	
Signature	yana le	dan	· · · ·	Name <u>Ka</u> t	ra Coda	ay	Tide <u>Sr.</u>	Engineerin	g Technicia	In Date 4/26/200
		A	<u> </u>							

INSTRUCTIONS

This form is to filed with the appropriate District Office of the Division Office not later than 20 days after the completion of any newly-drilled or deepened well. It shall be accompanied by one copy of all electrical and radio-activity logs run on the well and a summary of all special tests conducted, including drill stem tests. All depths reported shall be measured depths. In the case of directionally drilled wells, true vertical depths shall also reported. For multiple completions, items 25 through 29 shall be reported for each zone. The form is to be filed in quintuplicate except on state land, where six copies are required. See Rule 1105. 30-025-36378

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INDICATE FORMATION TOPS IN CONFORMANCE WITH GEOGRAPHICAL SECTION OF STATE

	S	outheastern	Nev	Mexico			Northwestern 1	New Mexico	
T. Anhy			Τ.	Canyon	•	T. Ojo Alamo		Т. Репл. "В"	
T. Salt			T.	Strawn		T. Kirtland-Fruit	land	T. Penn. "C"	
B. Salt			Т.	Atoka		T. Pictured Cliffs	; 	T. Penn. "D"	
T. Yates		2631	T.	Miss		T. Cliff House		T. Leadville	
T. 7 Rivers		2861	Τ.	Devonian		T. Menefee		T. Madison	
T. Queen		3385	T.	Silurian		T. Point Lookout		T. Elbert	
T. Grayburg		3634	T.	Montoya		T. Mancos		T. McCracken	
T. San Andres	s	3939	Τ.	Simpson		T. Gallup		T. Ignacio Otzte	
T. Glorieta			T.	McKee		Base Greenhorn	•	7 Granite	
T. Paddock			T.	Ellenburger		T. Dakota		T	
T. Blinebry				Gr. Wash		T. Morrison		Т	
T. Tubb			T.	Delaware Sand		T. Todilto		_T	
T. Drinkard			# T.	Bone Springs		T. Entrada		T	
T. Abo			T.	Rustler	1218	T. Wingate		Т	
T. Wolfcamp			T.			T. Chinle		T	_
T. Penn			T.			T. Permain		Т	
T. Cisco (Bou	igh C)		T.			T. Pean "A"		T	
				OILOR	GAS SANI	DS OR ZON	ES		
No. 1, from			to	****	No. 3, from			. to	
No. 2, from	*****		to		No. 4, from			10	
				IMPOI	RTANT WA	TER SAND			
				n to which water rose i					
No. 1, from				lo			feet		
No. 2, from				ot			feet		
•	******								
				to		***************************************	feet		
]				***************************************	feet		
No. 3, from		Thickness in		HOLOGY RECO	RD (Attach	additional sh	feet eet if necessary)		
]		to		***************************************	feet		
No. 3, from		Thickness in		HOLOGY RECO	RD (Attach	additional sh	feet eet if necessary)		
No. 3, from		Thickness in		HOLOGY RECO	RD (Attach	additional sh	feet eet if necessary)		
No. 3, from		Thickness in		HOLOGY RECO	RD (Attach	additional sh	feet eet if necessary)		
No. 3, from		Thickness in		HOLOGY RECO	RD (Attach	additional sh	feet eet if necessary)		
No. 3, from		Thickness in		HOLOGY RECO	RD (Attach	additional sh	feet eet if necessary)		
No. 3, from		Thickness in		HOLOGY RECO	RD (Attach	additional sh	feet eet if necessary)		
No. 3, from		Thickness in		HOLOGY RECO	RD (Attach	additional sh	feet eet if necessary)		
No. 3, from		Thickness in		HOLOGY RECO	RD (Attach	additional sh	feet eet if necessary)		
No. 3, from		Thickness in		HOLOGY RECO	RD (Attach	additional sh	feet eet if necessary)		
No. 3, from		Thickness in		HOLOGY RECO	RD (Attach	additional sh	feet eet if necessary)		
No. 3, from		Thickness in		HOLOGY RECO	RD (Attach	additional sh	feet eet if necessary)		
No. 3, from		Thickness in		HOLOGY RECO	RD (Attach	additional sh	feet eet if necessary)		
No. 3, from		Thickness in		HOLOGY RECO	RD (Attach	additional sh	feet eet if necessary)		
No. 3, from		Thickness in		HOLOGY RECO	RD (Attach	additional sh	feet eet if necessary)		
No. 3, from		Thickness in		HOLOGY RECO	RD (Attach	additional sh	feet eet if necessary)		
No. 3, from		Thickness in		HOLOGY RECO	RD (Attach	additional sh	feet eet if necessary)		
No. 3, from		Thickness in		HOLOGY RECO	RD (Attach	additional sh	feet eet if necessary)		
No. 3, from		Thickness in		HOLOGY RECO	RD (Attach	additional sh	feet eet if necessary)		
No. 3, from		Thickness in		HOLOGY RECO	RD (Attach	additional sh	feet eet if necessary)		
No. 3, from		Thickness in		HOLOGY RECO	RD (Attach	additional sh	feet eet if necessary)		

BEFORE THE OIL CONSERVATION COMMISSION OF THE STATE OF NEW MEXICO

IN THE MATTER OF THE HEARING CALLED BY THE OIL CONSERVATION COMMISSION OF THE STATE OF NEW MEXICO FOR THE PURPOSE OF CONSIDER-ING:

> CASE NO. 390 ORDER NO. R-199

THE APPLICATION OF THE OIL C ONSERVATION COMMISSION UPON ITS OWN MOTION FOR AN ORDER (a) EXEMPTING CERTAIN POOLS IN EDDY, LEA, CHAVES AND ROOSEVELT COUNTIES FROM THE PROVISIONS OF RULE 301 AND RULE 506 (PARAGRAPH 'D'): AND (b) EXEMPT-ING CERTAIN POOLS IN LEA COUNTY FROM THE PROVISIONS OF RULE 506 (PARAGRAPH 'D').

ORDER OF THE COMMISSION

BY THE COMMISSION:

1

This matter came on for hearing at Santa Fe, New Mexico, at 9 o'clock a.m. August 19, 1952, and September 16, 1952, before the Oil Conservation Commission of New Mexico, hereinafter referred to as the "Commission."

NOW, on this 13th., day of November, the Commission, a quorum being present, having considered the testimony adduced and the exhibits received at said hearing, and being otherwise fully advised in the premises,

FINDS:

(1) That due notice having been given as required by law, the Commission has jurisdiction of this cause and the subject matter thereof.

(2) That the following pools in Eddy, Lea, Chaves and Roosevelt Counties, New Mexico, by reason of their low productivity of oil and gas, should be exempted from:

> (a) The provisions of Rule 301 of the Commission's Rules and Regulations, said rule pertaining to the filing of Form C-116, Gas-Oil Ratio Test; and

> (b) The provisions of Paragraph (d) of Rule 506 of the Commission's Rules and Regulations, said rule pertaining to gas-oil ratio limitations.

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Acme, Aid, Anderson, Artesia, Barber, Benson, Black River, Burton, Caprock, Cedar Hills, Chisum-San Andres, Daugherity, Dayton, South Drinkard, Dublin-Devonian, Empire, Forest, Fren, Garrett, Getty, Grayburg-Jackson, Grayburg-Keely, Halfway, Henshaw, High Lonesome, Leo, Leonard, Loco Hills, Loco Hills-Queen, Lusk, West Lusk, North Lynch, East Maljamar, South Maljamar, McMillan, McMillan-Seven Rivers, Millman, Nadine, New Hope, Nichols, P.C.A., Pearsall, Penrose-Skelly, Premier, Red Lake, Robinson, Russell, Santo Nino, San Simon, Sawyer, Shugart, North Shugart, Square Lake, Teas, Turkey Track, East Turkey Track, West Turkey Track, Turkey Track-Seven Rivers, Watkins, Watkins-Grayburg, North Wilson, and Young.

(3) That the following pools in Lea County, New Mexico, because of their low productivity of gas should be exempted from the provisions of Rule 506, ragraph (d), of the Commission's <u>Rules</u> and <u>Regulations</u>, pertaining to gas-oil ratio limitations.

Baish, Cooper-Jal, South Eunice, Hardy, Lynch, Langlie-Mattix, Maljamar-Paddock, Rhodes, Wilson, West Wilson, Crossroads, Bagley-Siluro-Devonian, East Caprock-Devonian, and Knowles.

IT IS THEREFORE ORDERED:

(1) That the following pools in Eddy, Lea, Chaves and Roosevelt Counties be and the same hereby are exempted from the provisions of Rule 301 of the Commission's Rules and Regulations and from the provisions of Rule 506, Paragraph (d), of the Commission's Rules and Regulations:

Acme, Aid, Anderson, Artesia, Barber Benson, Black River, Burton, Caprock, Cedar Hills, Chisum-San Andres, Daugherity, Dayton, South Drinkard, Dublin-Devonian, Empire, Forest, Fren, Garrett, Getty, Grayburg-Jackson, Grayburg-Keely, Halfway, Henshaw, High Lonesome, Leo, Leonard, Loco Hills, Loco Hills-Queen, Lusk, West Lusk, North Lynch, East Maljamar, South Maljamar, McMillan, McMillan-Seven Rivers, Millman, Nadine, New Hope, Nichols, P.C.A, Pearsall, Penrose-Skelly, Premier, Red Lake, Robinson, Russell, Santo Nino, San Simon, Sawyer, Shugart, North Shugart, Square Lake, Teas, Turkey Track, East Turkey Track, West Turkey Track, Turkey Track-Seven Rivers, Watkins, Watkins-Grayburg, North Wilson, and Young.

(2) That the following pools in Lea County, New Mexico, be and the same hereby are exempted from the provisions of Rule 506, Paragraph (d), of the Commission's Rules and Regulations:

Case No. 390 Order No. R-199

-3-

Baish, Cooper-Jal, South Eunice, Hardy, Lynch, Langlie-Mattix, Maljamar-Paddock, Rhodes, Wilson, West Wilson, Crossroads, Bagley-Siluro-Devonian, East Caprock-Devonian, and Knowles.

DONE at Santa Fe, New Mexico, on the day and year hereinabove designated.

STATE OF NEW MEXICO OIL CONSERVATION COMMISSION

EDWIN L. MECHEM, Chairman

GUY SHEPARD, Member

R. R. SPURRIER, Secretary

SEAL

Rule 301 requires GO.R Test, and Siling of Cilb Rule 506 establishes 2000 tol as the statewide GO.R limit.

BEFORE THE OIL CONSERVATION COMMISSION OF THE STATE OF NEW MEXICO

IN THE MATTER OF THE HEARING CALLED BY THE OIL CONSERVATION COMMISSION OF THE STATE OF NEW MEXICO FOR THE PURPOSE OF CONSIDERING:

CASE NO. - 308 ORDER NO. R-98-B

THE APPLICATION OF THE OIL CONSERVATION COMMISSION OF NEW MEXICO ON ITS OWN MOTION FOR AN ORDER (a) REVISING AND AMENDING SECTIONS 'G', 'H', 'J', 'M', 'N', AND 'O' OF ORDER NO. 850; AND (b) PERMITT-ING THE ADOPTION OF SUCH OTHER CHANGES AND AMENDMENTS IN OTHER RULES NECESSARY AND PROPER TO GIVE FULL FORCE AND EFFECT TO THE REVISIONS AND AMENDMENTS CONTEM-PLATED.

NUNC PRO TUNC ORDER OF THE COMMISSION

It appearing to the Commission that the order heretofore entered in the above entitled cause is not a correct memorial of the judgment as rendered and announced by this Commission in that Appendix B of said order, through inadvertence and clerical error, established gas-oil ratio limits pursuant to Rule 506, as follows:

POOL		GAS-OIL RATIO LIMIT
Hardy	:	2000
Eunice, South		2000
Penrose-Skelly	·	2000
Vacuum		2000

when it should have been shown, as follows:

POOL

GAS-OIL RATIO LIMIT

Hardy Eunice, South Penrose-Skelly Vacuum	No Limiting gas-oil ratio
vacuum	2500

No limiting gas-oil ratio shall be applied in Hardy, Penrose-Skelly, Langlie-Mattix, Rhodes, Cooper-Jal and South Eunice Pools in Lea County, now primarily gas reservoirs; Provided that the oil produced with the gas shall not be in excess of the current top unit allowable; and provided further that the gas produced from said pools shall be put to beneficial use so as not to constitute waste, except as to proration units in said pools for which there are no facilities for the marketing or application to beneficial use of the gas produced therefrom. As to such proration units the limiting gas-oil ratio in effect immediately prior to the Case No. 308 Order No. R-98-B

effective date of the order herein shall apply.

THEREFORE, it is hereby ordered that the order heretofore entered by this Commission in the above entitled cause on June 24, 1952, be, and the same hereby is corrected to conform to the actual findings announced and rendered by the Commission by modifying Appendix B to read, as follows:

POOL

Hardy

Vacuum

Eunice, South Penrose-Skelly

GAS-OIL RATIO LIMIT

No limiting gas-oil	ratio
37	
11.	
2500	

No limiting gas-oil ratio shall be applied in Hardy, Penrose-Skelly, Langlie-Mattix, Rhodes, Cooper-Jal and South Eunice Pools in Lea County, now primarily gas reservoirs; Provided that the oil produced with the gas shall not be in excess of the current top unit allowable; and provided further that the gas produced from said pools shall be put to beneficial use so as not to constitute waste, except as to proration units in said pools for which there are no facilities for the marketing or application to beneficial use of the gas produced therefrom. As to such proration units the limiting gas-oil ratio in effect immediately prior to the effective date of the order herein shall apply, and said order in all other respects is hereby ratifi and confirmed, and,

IT IS FURTHER ORDERED, That this order correcting the record of said order be entered nunc pro tunc as of the 24th day of June, 1952, that being the date when said order was originally made and entered.

DONE this 24th day of July, 1952.

STATE OF NEW MEXICO OIL CONSERVATION COMMISSION

EDWIN L. MECHEM, Chairman

GUY SHEPARD, Member

R. R. SPURRIER, Secretary

SEAL