STATE OF NEW MEXICO ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

> OIL CONSERVATION DIVISION HOBBS DISTRICT OFFICE

GOVERNOR

6/1

POST OFFICE BOX 1980 HOBBS, NEW MEXICO 88241-1980 (505) 393-6161

F. 1241

OIL CONSERVATION DIVISION P. O. BOX 2088 SANTA FE, NEW MEXICO 87501

RE: Proposed: MC DHC NSL NSP SWD WFX PMX

Gentlemen:

I have examined the application for the:

EW Walder #12-F, 15-225-37e

and my recommendations are as follows:

OK-

Yours very truly,

hus Williams

Chris Williams Supervisor, District 1

/ed



the set the sheet of the set

May 19,1999

David Catanach New Mexico Oil Conservation Division P.O. Box 2088 Santa Fe, NM 87504-2088

Re:

Surface Commingling E.W. Walden Lease Lea County, New Mexico

Dear Mr. Catanach:

Anadarko (OGRID 000817) requests administrative approval for an exception to Rule 303-A to permit downhole commingling of the Grayburg and San Andres oil-oil zones in the wellbore of E.W. Walden #12. The well is located in Section 15 - T22S- R37E in Lea County, New Mexico. Exhibit 1 is a map of the EW Walden lease. This lease currently has 8 active producers in the Grayburg formation.

The EW Walden #12 is currently producing in the Grayburg at a rate of 1 BOPD, 2 BWPD and 23 MCFPD. This well is currently at its economic limit and if the commingling is approved, additional reserves could be recovered from the Grayburg formation. The San Andres was perforated and tested briefly in 1982 at a rate of about 25 BOPD. If this application is approved both zones will be turned together and placed on sucker rod pump.

In the wellbore, the Grayburg zone is perforated from 3640-3843' and the San Andres zone is perforated from 3899-3976'. The current producing BHP is 120 psi for the Grayburg interval (based on fluid level analysis) and the BHP for the San Andres is 880 psi (based on Lou Wortham C#2 offset analogy). The pressure difference should not be a problem as we will attempt to keep both zones in the "pumped off" condition in the wellbore. In the event that crossflow should occur, the waters are compatible (attached water analysis) and combining the fluids should not result in the formation of formation damaging precipitates.

Based on the latest test in the Grayburg (4/99) and the last test in the San Andres (8/82) in this well, the well should initially produce 25-30 BOPD, 350 MCFPD and 250 BWPD. This combined rate was developed by using the allocation of 96.5% for the San Andres and 3.5% for the Grayburg. These allocation factors were developed based on current and past production. A current production plot is included for the Grayburg interval as well as the brief production history for the San Andres interval.

At present the well is not involved in a secondary recovery project. If a future secondary recovery project were to be considered we foresee no problems with this commingling prospect jeopardizing the efficiency of a secondary project.

If commingling is approved, Anadarko Petroleum Corporation, will the operator of the said well located 2250' FNL & 1350' FWL, Sec 15, T22S, R37E, Lea County, New Mexico, Penrose Skelly Grayburg and Southwest Eunice San Andres. All working, overriding, and royalty interests are the same in the two commingled zones.

Surface Commingling E.W. Walden Lease May 19, 1999 Page 2 of 2

All offset operators have been notified of the proposed commingling by a copy of this letter. If you have any questions regarding this proposed action, please feel free to contact me at (915) 683-0559.

Sincerely,

Richard Landondale

Richard Lauderdale Production Engineer

Attachments

cc: NMOCD - District I (Hobbs) REL/Harold/Well File Offset Operators (see attached list)

ANADARKO PETROLEUM CORPORATION Offset Operators List E.W. Walden Lease Lea County, New Mexico

Collins & Ware, Inc. Empire Plz. 508 W. Wall, Ste. 1200 Midland, Texas 79701-5076

Chevron U.S.A. Production Company Box 1635 1301 McKinney Houston, Texas 77251

Conoco, Inc. 10 Desta Dr., Ste. 100W Midland, Texas 79705-4500

John H. hendrix Box 3040 110 N. Marienfeld, Ste. 400 Midland, Texas 79701

ICA Energy, Inc. Box 233 Odessa, Texas 79760-0233

Oryx Energy Co. 13155 Noel Rd. Dallas, Texas 75221-2880

Wagner & Brown, LTD. Box 1714 300 N. Marienfeld, Ste. 1100 Midland, Texas 79702

152 4 4 5 95 3 153		SEP PROVE			Ducia
V. McCormack The	(Duol) \$100 02	Aught Corrigan	Lo Iwenetal	(woffy, d) Pet) Mark Owen, Est	(WO) (P/8) 5214 (Dart) Mark Owen, Est. etal
chPet. Gulf	Wiser Dil Apache	Collins E. Ware	J.H.Hendrix	THE BOYS	A Wiess #37 -Duct.
TREAS Sm Trs. (Mo	(103)041 , 14 (Dual) Archi Pet. (Culf) Archi Pet. (Rinewalt	(TigEnerFol	(PrB) (Sun) BEC Corp.	Arch Pet, Warren Piont/ El Paso Noti T0415	Oudil Rice Eng. Exton
III	W.M. Rinewalt Pro	5 - 10 ((P/B) - 10 () (P/B) - 119 Hugh Corrigon	Fre Qwe q, etcl	Mork	20, 417 1739(re) 28 178(re) 28 178(re) 128 178(re) 12
alensidarchPet	(WO) Duol				26.5 2/00 18 -27 29
rizzeli Heroce - to tagool Peti Hendrix	Getty (Arch Pet: Getty (Sulf Child	ARCO Zia Geffg Encr.) Angagrko	Brunson Fol Anecarke		TO TTEN Gr W. Disc. pro- TO TTEN Parker Dr a (Trig
Rie (Duradi) uai) (3 Zeipyster: zzeit (p	RlissErer, 27 (Pre) R.J. Cliffor Stitcher	Two Phil		Brunson	(won 41 (42) Ougi 4 - 24 40 (wo) P/8 swn 4 WS Sto 200
irbarough0r,G {P/B} 3024	J.H.Hendrix ² ³ ³ ⁴ ⁵ ⁵ ^(D)	Titon 20 144	ALC CONTITUTA 4.8 Sunson Ango 1630 1 , 22 (142) 1630 1 , 22 (143) 1630 1 , 22 (143) 1630 1 , 22 (143) 1630 1 , 20 (143)	Chevron lArch pe Brunson 6 ph3 (ABD) 1	Provide a strategy of the stra
ia Ener: 01062	Elliott DS236 Zie Ener, JJt.Hendric Cent 1 3 1 to base	Titon (13 (bud)) Brunson Argo (9/8) 10 28 (00)	26 Titon - Brunson Argo 23 - 11 - 21 - 25	Arch Pet Brunson Cnevron Brunson I (Wa) 4	Anadarka (Anador
(1-1000) / 244 Jrizzett (1-455 Disc.)	4 2 F20 (1 E) Hendrik Hendrik Kentrik		(Pilo) (Pilo) (Pilo) (Pilo) (Pilo) (Pilo) (Pilo) (Pilo)	Ounson Fues	17. 67 68 Wo Low Wortho Anadar Ko . I. Bayd
Apoche 2010		BHISS Art Argo" (Bud) Bungen- RI.Brunson Exxon BEC Corp. 9 07 11 155 (PrB) P24 (P/B)	BEC COLEXACO (P/B) 3-E (1)	22 P/8 • 1 Vore 3 22 P/8 • 1 Vore 3 1 5 3 7 1 Vore 3 0 1 8 1 1 8 0 1 8 1 1 8 0 1 8 1 1 8 0 1 9 1 1 8 0 1 9 1 1 8 0 1 9 1 9 1 9 1	1 2 (1-M) 2/25 (-A)/JH H P25 - Apoche 3:(2-1)/JH H P25 - Apoche 3:(2-1)/JH H
70/1 11.0 Sheri Gri 11.0 TO 330000	(Prop. 15 etal P33 3 / P		BEC Corp.	(westell (wo) The	Porter, Ir 212 22 Mu Style TD3697
TIA 14 24	DI 197335 BEC Corp. J. Charlie B		Pret 14 (wo. A. B. J.H. Hendrik O Cur	Cotting to used	2 3 Deck JA (DOJA) Thomas Long RA
N 8-934 193553 1-8 C.8 23890 Lins Sware Ellio + 5-0-6		TIC 14 4 4 10 100 100 100 100 100 100 100 1		ughes (5) Hendrix B (000) 0557257 gc / M	D. Davis J. Dy Anadorn
B (DOX2 B) J Hendrit	Sahia Cale NCTL.Dreyfi Chr.stmos Chevro Fild - Gulf	Chevron Chevron	DJ.Davis, eta(S)	THUMAN ACTIFUSED	etal(S) 14936//
mpbell Zid I Hedrickl Ener	(PIB) CIPIET TA		Collins E. Ware	JH Cont'l	ellioft (10-Hender)
PS6 PPAD	Chevron (Mn) BA 2 4 (15A) 70 A (P/B T/A (778) (Sil D	Chevion	Anodor Ro 13 G L Sc	8 31	Schel PolarisPre
beloil a. (wo)	id A (Gulf) - 94 Colewor Anedor ke	•(P/8) ZIO	1 C (pudi)	Conoco etal ,032573 Lilliott	Anadarko Polaris Prod Polaris Prod (Prol U U Parks
Christmas Bettis, Boyle C. Guif; Stuvall	R. C. Cole - Si Fagadau Ener	Gerry Anadarka	E W. Walderi 1. Bo	8 Collins E. Ware	Ruby Boyd, e
A Potsy of	Tr.8 A Warden	WING Wagner & Tr. 6 Brown	Bk.Leg Co. Elinoten Tr.5 Anadarka 5	9224 SWO S (Que)	Timbers 2. Wi Cross 3 F Y Hendrix Timbers Hendrix Cossofet Cross
2 10-018 10-018 10-018	Mindendi Mi Deck Es	(.7 2 (.7 1)	Tr. 4 (Man) 0:30	E.Wood Marty	(PB) Bayd (PB) Sicco
72 Worrior, m) 1 1 inc 34 1 04000' 34 1 04000'	(Exxon)/ Anod		R.L.Decker 2	2 Exxon Paxon 3 2 Duri 22	Penrose) Chevron Samed
TA Cloner Si Ener B-934	0ירנסד י	M.Deck Jry Est.(S)	Angotarko J.D.Marsyrr Anderko j Syarbrough	Tr.14 //Sohio	Anadarios A. Hendrik (2) har Karoles (1) Hendrik (2) har Karoles (1) Hendrik (2) har

DIG II NIG I I 1825 N. French Dr., Hobbs, NM 88240 DISTRICT II 811 South First St., Artesia, NM 88210 DISTRICT III 1000 Rio Brazos Rd, Aztec, NM 87410 DISTRICT IV 2040 S. Pacheco, Santa Fe, NM 87505	F rgy, Minerais and Nat OIL CONSERV 2040 S Santa Fe, New M	New Mexico tural Resources Depment /ATION DIVISION Pacheco Mexico 87505-6429 WNHOLE COMMINGLING	Form C-107-A Revised March 17, 1999 APPROVAL PROCESS: AdministrativeHearing EXISTING WELLBORE YES NO
ANADARKO PETROLEUM CORPORATIO	ON P O BOX 2497	MIDLAND TX 79702	
E.W. WALDEN Lease		Address SEC 15-T22S-R37E .tr Sec - Twp - Roe	LEA
OGRID NO. 000817 Property	001111	,	County Lease Types: (check 1 or more) , State,(and/or) Fee _X
The following facts are submitted in support of downhole commingling: 1. Pool Name and Pool Code	Upper Zone PENROSE SKELLY CRAYBURC 50350	Intermediate Zone	Lower Zone EUNICE; SAN ANDRES, SOUTHWEST 24180
2. Top and Bottom of Pay Section (Perforations)	3640-3843		3899-3976
3. Type of production (Oil or Gas)	01L		01L
4. Method of Production (Flowing or Artificial Lift)	ARTIFICIAL LIFT		ARTIFICIAL LIFT
5. Bottomhole Pressure Oil Zones - Artificial Lift:	a. ^(Current) 120 BHP	a.	a.
Git Zones - Artificat Lift. Estimated Current Gas & Oil - Flowing: Measured Current All Gas Zones: Estimated Or Measured Original	b. (Original)	b.	 FROM LOU WORTHAM C#2 ANALOGY (ATTACHED) 880 PSI
6. Oil Gravity (EAPI) or Gas BTU Content	35.0° API		37.1° API
7. Producing or Shut-In?	PRODUCING		SI
	YES		YES, IN OFFSETTING LSES
Production Marginal? (yes or no) * If Shut-In, give date and oil/gas/ water rates of last production Note: For new zones with an and wine binors	Date: Rates:	Date: Rates.	Date: 08/82 Rates: 27 BOPD, 245 BWPD 330 MCFPD
Note: For new zones with no production history, applicant shall be required to attach production estimates and supporting data * If Producing, give date andoil/gas/ water rates of recent test (within 60 days)	Date: 4/20/99 Rates: 1 BOPD, 23 MCFPD, 2 BWPD	Date: Rates:	Date: Rates:
 Fixed Percentage Allocation Formula -% for each zone (total of %'s to equal 100%) 	Oil: Gas: 3.5 % 6.5 %	Oil: % Gas: %	Oil: Gas: 96.5 %
 If allocation formula is based up attachments with supporting datachments 	oon something other than curren ata and/or explaining method a	t or past production, or is based i and providing rate projections or	ll. <u></u>
 Are all working, overriding, and If not, have all working, overric Have all offset operators been g 	l royalty interests identical in al ting, and royalty interests been iven written notice of the propos	l commingled zones? notified by certified mail? ed downhole commingling?	$\frac{X}{X} Yes _{No} No$
11. Will cross-flow occur? Y	es x No If ves, are fluids	compatible, will the formations r la be reliableYesN	ot bo domored will any and
12. Are all produced fluids from all	commingled zones compatible	with each other? <u>X</u> Yes	s No
 Will the value of production be If this well is on, or communitiz United States Bureau of Land N 	decreased by commingling? ed with, state or federal lands,	Yes <u>x</u> No (If Yes, either the Commissioner of Pub	attach explanation) lic Lands or the
15. NMOCD Reference Cases for I	Nanagement has been notified Rule 303(D) Exceptions:	ORDER NO(S)	_YesNo
16. ATTACHMENTS: * C-102 for each zone * Production curve for * For zones with no pr * Data to support allow * Notification list of all	to be commingled showing its each zone for at least one yea oduction history, estimated pro ation method or formula.	spacing unit and acreage dedic r. (If not available, attach expla oduction rates and supporting da nterests for uncommon interest o uired to support commingling.	ration. nation.) ata.
I hereby certify that the information	above is true and complete to	the best of my knowledge and t	Delief.
SIGNATURE Kihard handen		ITLE Production Engin	
			IO. (<u>915/683-0559</u>)

W MEXICO OIL CONSERVATION COMMITION WE LOCATION AND ACREAGE DEDICATE PLAT

2.12

Porm C-102 Supersedes C-128 Ellective 1-1-65

.

		All distances m	ust be from the eu	ster boundarses	of the Secti	on	
	AKKO PRODUC	TION CO.	Lease	E. W.	WALDER	1	Well No. 12
F	ection 15	Township 22 BO	UTH	9• 37 EAST	County	LEA	
the second se	n of Well; eet from the	NORTH	ne and 135	50 ,	est from the	WEST	Jing
Ground Level Elev. 3402.6	Prosucing For Grayburg		Pool Ponn	ose Skell	(Pool		Dedinated Accesses
1. Outline the e	acreage dedica	ted to the subje	ct well by co	lored pencil	or hachur	e marks on the	<u> </u>
2. If more than interest and i	one lease is royalty).	dedicated to th	e well, outline	each and id	lentify the	ownership the	ereof (both as to working
3. If more than a dated by com	one lease of d munitization, u	ifferent ownershi initization, force-	p is dedicated pooling. etc?	to the well	, have the	interests of a	all owners been consoli-
Yes 🔀]No Ifar	nswer is "yes," t	ype of consoli	detion			
							ed. (Use reverse side of
No allowable forced-pooling sion.	will be ussigne , or otherwise)	ed to the well unt or until a non-sta	il all interests indard unit, el	s have been iminating su	consolida ch intères	ited (by comm its, has been a	unitization, unitization, pproved by the Commis-
	1			······		REL	CERTIFICATION
			i			I hereby cer	tify that the information con-
·	, b		; ;				n is true and complete to the . nowledge and belief.
· •	22.50		1			John	C. Engliel
						John Engl	lish
			1			Area Sup	ervisor
	1					Anadarko	Production Company
	! 	Litter 1				February	17,1982
	1 · · · ·		103 10			I hemby car	tly that the well location
	1		563			shown on this	i plat was plotted from field - val surveys mode by me er
		ALC STOR	LAND SURVEY			under my sup	ervision, and their the some correct to the basis of my
	+		LANU			knowledge an	
	1	hisilini		•ئ			
	1					Date Surveyed	2-11-82
-	1 · · ·		- 1			Registured Profe and or Land Str	veyor
						Talin	Alameto
C# 048 ULC	345 1880 1880	2310 2640	1500 1800	1000 10			JOHN W. WEST 676 ATRICK A. ROMERO 6663 Ongld J. Eidena 3230

District I

ſ

PO Box 1980, Hobbs, NM 88241-1980 District II 811 S. 1st Street, Artesia, NM 88210-2834 District III 1000 Rio Brazos Rd., Aztec, NM 87410 District IV 2040 South Pacheco, Santa Fe, NM 87505

State of New Mexico Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION 2040 South Pacheco Santa Fe, NM 87505

Form C-102 Revised October 18, 1994 Instructions on back Submit to Appropriate District Office State Lease - 4 Copies Fee Lease - 3 Copies

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

		² Pool Code				³ Pool Nam			
56	· · · · · · · · · · · ·	24180			UNDESINATED				ITUUEST
			⁵ Prop	erty Na	me				UTHWEST Well Number
			E.W	. WALC)EN				
			8 Ope	rator Na	me			9	Elevation
		Ana	<u>darko P</u>	etrol	eum Corp.				402.6'GR
		10							
-	-	Lot. Idn	Feet from	the	North/South Line	Feet from the	East/W	est line	County
	37E		225	50	NORTH	1350			LEA
11	Bott	tom Hole La	ocation I	f Diffe	rent From Surfac				
Township Rai	nge	Lot. Idn	Feet from	the	North/South Line	Feet from the	East/W	est line	County
or Infill ¹⁴ Conso	lidation C	Code ¹⁵ Orde	er No.			·	<u>_</u>		
LL BE ASSIG OR A NON-	NED TO	O THIS CO DARD UNI	MPLET	ION U BEEN	NTIL ALL INT APPROVED BY	ERESTS HAVI	E BEEN ON	I CONS	SOLIDATED
20 7 7 7						I hereby certify th true and complete Signature <u>RICHARD LAI</u> Printed Name <u>PRODUCTION</u> Title <u>05/19/1999</u> Date 18 SURVE I hereby certify th mag plotted from the from and correct to the be Date of Survey Signature and Seal	hat the inj to the be: Land UDERDAI ENGINE YOR CI at the wel field note: stofmy bel	formation st of my kn wda E E E E R E R S R TIFI I location s of actual , and the ief.	contained herein is owledge and belief.
	Township 22S 11 Township r Infill LL BE ASSIG OR A NON	Township Range 22S 37E ¹¹ Bot Township Range or Infill ¹⁴ Consolidation O LL BE ASSIGNED T OR A NONSTAN	56 24180 Ana 10 Township 22S 37E 11 Bottom Hole La Township Range Lot. Idn 11 Bottom Hole La Township Range Lot. Idn 15 Orda Infill 14 Consolidation Code 15 Orda Lat. Idn Idn <td< td=""><td>56 24180 S Prop E.W 8 Open Anadarko P 10 Surface Township 22S 37E 22S 37E 22S 11 Bottom Hole Location I Township Range Lot. Idn Feet from 22S 37E 22S 11 Bottom Hole Location I Township Range Lot. Idn Feet from r Infill 14 Consolidation Code 15 Order No. LL BE ASSIGNED TO THIS COMPLET OR A NONSTANDARD UNIT HAS</td><td>56 24180 Second Stress 5 Second Stress 8 Anadarko Petrolle 8 Surface Locati 10 Township Range 22S 37E 22S0 11 Bottom Hole Location If Diffe Township Range Lot. Idn Feet from the 22S0 11 Bottom Hole Location If Diffe Township Range Lot. Idn Feet from the r Infill 14 Consolidation Code 15 Order No. LL BE ASSIGNED TO THIS COMPLETION U OR A NONSTANDARD UNIT HAS BEEN</td><td>56 24180 UNDESINATED ⁵ Property Name E.W. WALDEN 8 Operator Name Anadarko Petroleum Corp. ¹⁰ Surface Location Township Range 22S 37E 37E 2250 NORTH 11 Bottom Hole Location If Different From Surface Township Range Lot. Idn Feet from the NORTH 11 Bottom Hole Location If Different From Surface Township Range Lot. Idn Feet from the North/South Line r Infill I4Consolidation Code 14 Consolidation Code 15 Order No.</td><td>24180 UNDESINATED - EUNICE; SA ³ Property Name - E.W. WALDEN * Operator Name Anadarko Petroleum Corp. * Operator Name Anadarko Petroleum Corp. * Surface Location Township Range Lot. Idn 22S 37E 2250 37E 2250 NORTH 11 Bottom Hole Location If Different From Surface Township Range Lot. Idn rt Infill Feet from the North/South Line rest from the North/South Line Feet from the rownship Range Lot. Idn Feet from the rownship Range Lot. Idn Feet from the value NonSTANDARD UNIT HAS BEEN APPROVED BY THE DIVISIC OR A NONSTANDARD UNIT HAS BEEN APPROVED BY THE DIVISIC Stagaative RICHARD LA Printed Name PRODUCTION Thue 05/19/1999 Date 1* SURVE I hereby certify th ward or water my i and corrector the be</td><td>Solution Pool Name 24180 UNDESTINATED - EUNICE; SAN ANDR ⁵ Property Name E.W. WALDEN ⁸ Operator Name * Operator Name Anadarko Petroleum Corp. ¹⁰ Surface Location Township Range Lot. Idn 22S 37E 2250 11 Bottom Hole Location If Different From Surface Township Range Lot. Idn r Infill Mconsolidation Code ¹⁶ Order No. LL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION 11 OPERATOR CCE 12 OPERATOR CCE 13 OPERATOR CCE 14 Consolidation Code 15 OUNDESTINATED LAUDERDAR 16 Fritted Name 17 OPERATOR CCE 18 SURVEYOR CCI 19 Interdy certify that the well war planet DAUDERDAR 118 SURVEYOR CCI 14 SURVEYOR CCI 15 SURVEYOR CCI 16 SURVEYOR CCI 17 Det of Survey 18 SURVEYOR CCI 18 SURVEYOR CCI 18 SURVEYOR CCI 19 Net of Survey Signature a</td><td>24180 UNDESTINATED - EUNICE: SAN ANDRES, SO * Property Name * 1 * Operator Name * 1 * Operator Name 9 Anadarko Petro Jeuni Corp. * 1 * Bottom Hole Location 10 Township Range 237E Lot. Idn 250 NORTH 250 NORTH 11 Bottom Hole Location If Different From Surface Township Range Lot. Idn Feet from the 250 NORTH 11 Bottom Hole Location If Different From Surface Township Range Lot. Idn Feet from the 14 Peet from the 250 North/South Line 250 North/South Line 261 Status 262 North/South Line 263 Peet from the 264 Status 270 PERATOR CERTIFI 284 Nigeature 285 Reduce Contine Envire <</td></td<>	56 24180 S Prop E.W 8 Open Anadarko P 10 Surface Township 22S 37E 22S 37E 22S 11 Bottom Hole Location I Township Range Lot. Idn Feet from 22S 37E 22S 11 Bottom Hole Location I Township Range Lot. Idn Feet from r Infill 14 Consolidation Code 15 Order No. LL BE ASSIGNED TO THIS COMPLET OR A NONSTANDARD UNIT HAS	56 24180 Second Stress 5 Second Stress 8 Anadarko Petrolle 8 Surface Locati 10 Township Range 22S 37E 22S0 11 Bottom Hole Location If Diffe Township Range Lot. Idn Feet from the 22S0 11 Bottom Hole Location If Diffe Township Range Lot. Idn Feet from the r Infill 14 Consolidation Code 15 Order No. LL BE ASSIGNED TO THIS COMPLETION U OR A NONSTANDARD UNIT HAS BEEN	56 24180 UNDESINATED ⁵ Property Name E.W. WALDEN 8 Operator Name Anadarko Petroleum Corp. ¹⁰ Surface Location Township Range 22S 37E 37E 2250 NORTH 11 Bottom Hole Location If Different From Surface Township Range Lot. Idn Feet from the NORTH 11 Bottom Hole Location If Different From Surface Township Range Lot. Idn Feet from the North/South Line r Infill I4Consolidation Code 14 Consolidation Code 15 Order No.	24180 UNDESINATED - EUNICE; SA ³ Property Name - E.W. WALDEN * Operator Name Anadarko Petroleum Corp. * Operator Name Anadarko Petroleum Corp. * Surface Location Township Range Lot. Idn 22S 37E 2250 37E 2250 NORTH 11 Bottom Hole Location If Different From Surface Township Range Lot. Idn rt Infill Feet from the North/South Line rest from the North/South Line Feet from the rownship Range Lot. Idn Feet from the rownship Range Lot. Idn Feet from the value NonSTANDARD UNIT HAS BEEN APPROVED BY THE DIVISIC OR A NONSTANDARD UNIT HAS BEEN APPROVED BY THE DIVISIC Stagaative RICHARD LA Printed Name PRODUCTION Thue 05/19/1999 Date 1* SURVE I hereby certify th ward or water my i and corrector the be	Solution Pool Name 24180 UNDESTINATED - EUNICE; SAN ANDR ⁵ Property Name E.W. WALDEN ⁸ Operator Name * Operator Name Anadarko Petroleum Corp. ¹⁰ Surface Location Township Range Lot. Idn 22S 37E 2250 11 Bottom Hole Location If Different From Surface Township Range Lot. Idn r Infill Mconsolidation Code ¹⁶ Order No. LL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION 11 OPERATOR CCE 12 OPERATOR CCE 13 OPERATOR CCE 14 Consolidation Code 15 OUNDESTINATED LAUDERDAR 16 Fritted Name 17 OPERATOR CCE 18 SURVEYOR CCI 19 Interdy certify that the well war planet DAUDERDAR 118 SURVEYOR CCI 14 SURVEYOR CCI 15 SURVEYOR CCI 16 SURVEYOR CCI 17 Det of Survey 18 SURVEYOR CCI 18 SURVEYOR CCI 18 SURVEYOR CCI 19 Net of Survey Signature a	24180 UNDESTINATED - EUNICE: SAN ANDRES, SO * Property Name * 1 * Operator Name * 1 * Operator Name 9 Anadarko Petro Jeuni Corp. * 1 * Bottom Hole Location 10 Township Range 237E Lot. Idn 250 NORTH 250 NORTH 11 Bottom Hole Location If Different From Surface Township Range Lot. Idn Feet from the 250 NORTH 11 Bottom Hole Location If Different From Surface Township Range Lot. Idn Feet from the 14 Peet from the 250 North/South Line 250 North/South Line 261 Status 262 North/South Line 263 Peet from the 264 Status 270 PERATOR CERTIFI 284 Nigeature 285 Reduce Contine Envire <



E.W. Walden #12

Penrose Skelly (Grayburg) Oil Well



To. Mr. Mike Bridges	ESULT OF WATE		M	709 W. INDIANA IDLAND. TEXAS 797 PHONE 683-4521
R RE To: Mr. Mike Bridges				PHONE Rea Leas
	L Klalaa			1 HONE 083-4521
		LABORATORY NO.	1185451	
P.O. Box 2497, Midland, Texas		RESULTS REPORTED	12-5-85	
COMPANY Anadarko Production (Company LEAS	F As li	sted	
FIELD OR POOL	1. Penrose Sk	elly 2. Eun	ice. South	
SECTION BLOCK SURVEY	COUNTY	Lea	ATE NM	
SOURCE OF SAMPLE AND DATE TAKEN:			ATE	
NO. 1 Grayburg water - taken fro	DE E. W. Walde	n #12 0-10-95		
us a San Andres water - taken d	Ener II. All	<u>II #127 9-19-05</u>		
NO.2 <u>San Andres water - taken</u> 1	ron Hugh #13.	11-26-85		
NO. 3			·····	
NO. 4				
REMARKS:				
CHEMICA	L AND PHYSICAL	PROPERTIES		
	NO. 1	NO. 2	NO. 3	NO. 4
Specific Gravity at 60° F.	1.0163	1.0114		
pH When Sampled				_ <u></u>
pH When Received	7,59	7.02		······
Bicarbonate as HCO3	2,367	2,245		
Supersaturation as CaCO3				
Undersaturation as CaCO3				
Total Hardness as CaCO3		1.475		
Calcium as Ca	92	296		
Magnesium as Mg	134	179		
Sodium and/or Potassium	5,706	3,989		
Sulfate as SO4		236		
Chloride as Cl	7,952	5,717		
Barium as Ba	2.8_	0.04		
	0	0		
Turbidity, Electric Color as Pt				
Total Solids, Calculated				
Temperature °F.	16,281			
Carbon Dioxide, Calculated				
Dissolved Oxygen, Winkler				+
Hydrogen Sulfide	250	1 050		
Resistivity, ohms/m at 77° F.	350	1,250		
Suspended Oil	0,510	0.540	· · · · · · · · · · · · · · · · · · ·	
Filtrable Solids as mg/1				
Volume Filtered, ml	· · · · · · · · · · · · · · · · · · ·			· · · · · · · · · · · · · · · · · · ·
			······································	
Resul	ts Reported As Milligra	ams Per Liter		↓ ·
Additional Determinations And Remarks A carefy	ul comparison	of the above re	sults clear	ly reveala
no evidence of any incompatibili	ty between the	se two waters	VALUE CICA	AT TEVEGTR
orm No. 3				

cc: Mr. Dan Kernaghan, Midland

Ву ___





7/30/1982 Set RBP @ 3960' to test Upper SA	7/28/1982 14	7/27/1982 15	7/26/1982 17					z		7/19/1982 13				7/15/1982 NO Test	17/14/1982 NO Test		7/12/1982 0		7/10/1982 0			Oil F	
2) 3960' to test I	162	161	164	169	178	208	260		80	220	86	217	154				190	190	197	192	190	Water Rate Gas Rate	
Upper SA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	44				18	25	23	19	11	Gas Rate	
													_			_	_	_	-		_		_
									_	0	~	<u> </u>		~									
										8/18/1982	8/17/1982	8/16/1982	8/15/1982	8/14/1982	8/13/1982	8/12/1982	8/11/1982	8/10/1982	8/9/1982	8/8/1982	8/7/1982		
				_						_	8/17/1982 9	8/16/1982 NO Test			_		8/11/1982 NO Test			. –	8/7/1982 5	Oil Rate	
	_									10			10	10		ω	NO Test	10	9	сī		Oil Rate Water Rate	perfs 3899-3917

8/18/1982 Set CIBP above San Andres perforations and this well has been Grayburg producer since that time.

San Andres History in EW Walden #12



◆ Oil Rate, BOPD ■ Gas Rate, MCFPD △ Water Rate, BWPD