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

June 15, 1978

Delta Drilling Company P. O. Box 2012 Tyler, Texas

Attention: Mr. R. Dale Keadle

Re: 1978 Plan of Development South Culebra Bluff Unit

Eddy County, New Mexico

Gentlemen:

Reference is made to your 1978 Plan of Development for the South Culebra Bluff Unit Area, received in this office June 14, 1978.

The plan, which calls for the drilling of two new wells and re-entry and final completion of Unit Well No. 1, is hereby given only partial approval.

We do not feel that the overall plan, which calls for re-entry and final completion of Unit Well No. 1 only after completion of Unit Well No. 2 but prior to December 31, 1978, is adequate.

You will recall that approval was given for "completion" of the Unit Well No. 1 in its present condition on January 26, 1978, for a period not to exceed six months. We anticipated at that time that six months of unrestricted production into the pipeline would lower the reservoir pressure to such level as would make killing the well and final completion possible, although you advised us that you thought this work could be done in the latter half of June, or within five months.

Letter to Delta Drilling Company
June 15, 1978

From January 27 through June 7, the well has produced slightly in excess of 4 billion cubic feet of gas. By July 26, when the 6-month period for production in its present condition expires, the well should have produced an additional 1.1 billion cubic feet.

We cannot help but believe that over 5 billion feet of production into the pipeline plus the volume lost prior to bringing the well under control is more than adequate to make a safe workover possible.

For these reasons that portion of the plan of development calling for workover and final completion of Unit Well No. 1 only after completion of Well No. 2 but sometime prior to December 31, 1978, is not approved.

Very truly yours,

JOE D. RAMEY Director

JDR/DSN/fd

cc: USGS Roswell and Albuquerque Paul Eaton Roswell OCD Artesia Case File 6117

DELTA DRILLING COMPANY West Texas Exploration Division Post Office Box 3467 • Midland, Texas 79701 (915) 682-4161

December 17, 1982

U.S. Geological Survey Supervisor Drawer 1857 Roswell, NM 88201

Energy and Mineral Dept.
Director of the Oil Conservation Division P.O. Box 2088
Santa Fe, NM 87501

Geologic Survey South Central Region P.O. Box 26124 Albuquerque, NM 87125 RE: Plan of Further Development and Operation
South Culebra Bluff Unit,
October 10, 1977
Contract Number 14-08-0001-16067
Township 23 South, Range 28 East
N.M.P.M.
Eddy County, New Mexico

Case # 6 // 7

Gentlemen:

Reference is made to the letter from Gene F. Daniel, Deputy Minerals Manager of the Minerals Management Service, dated October 28, 1982. The letter requested data on protecting the South Culebra Bluff Unit from possible drainage. Delta's reserve studies during the past year have shown that drainage of hydrocarbons from this Unit is not occurring and that any wells drilled within this Unit under current economic conditions would not be economical. Offset wells that were potential drainers of the Unit included the Delta Brantley #1 (SE/SW, Sec. 23, T23S, R28E), the Amoco Brantley "B" #1 (NW/SE, Sec. 24, T23S, R28E), and the Amoco Williams Gas Unit #1 (NE/NE, Sec. 25, T23S, R28E) (Tab 2). The following information has been gathered on these wells:

DELTA BRANTLEY NO. 1

- 1) D&C (Bone Spring) 12/81
- 2) IP 17 BOPD
- 3) Cumulative production as of 7/1/82: 872 BO and 8.5 MMCFG
- 4) Recoverable reserves: 26,048 BO on 80 acres

To date, the Delta Brantley No. 1 has drained 2.7 acres. Cost to drill and complete a SCBU offset would total \$750,000. If production in the offset were comparable to that of the Delta Brantley No. 1, the well would never pay out. (Tab 3)

AMOCO BRANTLEY "B" NO. 1

- 1) TD (Morrow) non-productive; recompleted to Bone Spring 7/80.
- 2) IP 18 BOPD
- 3) Cumulative production as of 7/1/82: 9980 BO
- 4) Recoverable reserves: 142,064 BO on 80 acres

This well has to date drained 4.05 acres. Cost to drill and complete a SCBU offset would be \$760,000 and, at production rates comparable to the Amoco Brantley "B" No. 1, the well would never pay out. (Tab 4)

AMOCO WILLIAMS GAS UNIT NO. 1

- 1) D&C (Morrow) 5/77
- 2) IP 2580 MCFGPD
- 3) Cumulative production as of 7/1/82: 307 MMCFG
- 4) Recoverable reserves: 10.6 BCFG on 160 acres

Total drainage for the well to date is 38.5 acres. D&C costs for a SCBU offset would be \$1,540,000. Using production from the Williams Gas Unit as a model, the SCBU offset well would never pay out. (Tab 5)

We conclude from this data that it is uneconomical to drill SCBU offsets to the above mentioned wells. Additionally, it is the opinion of Delta Drilling Company that the producing wells in question pose no threat of drainage of unitized lands.

Yours very truly,

DELTA DRILLING COMPANY

Larry Schulz

Exploration Manager

LS/WC/jw/ae

DATE: 11/11/82 TIME: 13:46:17

FILE: IN

FILE: SETYEAR

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PROJECT DATA

ITEM	SCHEDULIN	G RATES		SCHEDULE	UNTIL	PROCEDUR	RE
410 OIL	150.00	15.00	В/М	X	YRS	CPD	48.00
420 GAS/OIL	2.70	Х	M/B		LIFE	LIN	TIME
510 PRI/OIL 515 PRI/GAS	32.00 3.60	X X	\$/B \$/B		LIFE LIFE	SCH PE	POIL 0.00
610 OPC/T	2600.00	X	\$/M		LIFE	SCH	POC
710 LSE/WI 715 LSE/RIC 720 LSE/RIG	100.00 19.00 19.00	X X X	% % %		LIFE LIFE LIFE		
INVESTMENT	TANGIBLES	& INTA	NGIBLES	TIME		PROCEDUR	KE
810 SCB	248.00	512.00	M≢G	1/83	AD	₽E	0.00

AFTER TAX ECONOMICS

AS OF DATE: 1/1/1982

PERIOD ENDING	12-82	12-83	12-84	12-85	3.6 YR TOTAL
INVESTMENTS, M\$					
1) EXPENSED & RISK 2) DEPLETABLE 3) DEPRECIABLE 4) TOTAL TAX CALCULATIONS, M\$	0.000	0.000	0.000	0.000	512.000 0.000 248.000 760.000
5) GROSS REV. TO INTR. 6) - SEVERANCE TAX 7) - WPT TAX PAID 8) - OPR. COSTS & AD T 9) - OVERHEAD 10) - EXPENSED INV. 11) - DEPRECIATION 12) = NET 13) - DEPLETION 14) - INTEREST 15) = TAXABLE 16) * TAX RATE, % 17) - INVESTMENT CREDIT 18) - WPT REFUND 19) = F.I.T.	0.000 0.000 32.881 0.000 0.000 13.128 0.000 0.000 13.128 46.0 0.000	0.000 0.000 36.827 0.000 512.000 0.000 -523.051 0.000 -523.051 46.0 0.000	0.000 0.000 41.246 0.000 0.000 -26.783 0.000 -26.783 46.0 0.000	0.000 26.309 0.000 0.000 -21.013 0.000 -21.013 46.0 0.000	0.000 0.000 137.263 0.000 512.000 0.000 -557.719 0.000 -557.719 46.0 0.000
20) REVENUE-SEV-WPT 21) - OPR. COSTS & ATX 22) - F.I.T.	46.009 32.881 6.039 7.089 0.000 0.000 7.089	25.776 36.827 -240.603 229.553 0.000 0.000 229.553 760.000	14.463 41.246 -12.320 -14.463 0.000 0.000 -14.463	5.296 26.309 -9.666- -11.347 0.000 0.000 -11.347 0.000	91.543 137.263 -256.551 210.832 0.000 0.000 210.832 760.000
30) NET INCOME 31) INVESTMENTS & RISK 32) A.F.I.T. NET 33) CUM. A.F.I.T. NET	0.000	657.653	-10.083 0.000 -10.083 -476.194	0.000	657.65 3

DATE: 11/11/82 TIME: 13:46:17

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PROJ: 0

ECONOMIC INDICATORS

AS OF DATE: 1/1/1982

	B.F.I.T. WORTH M\$	A.F.I.T. WORTH M\$	A.F.I.T. BONUS M\$
PRESENT WORTH PROFILE AN RATE-OF-RETURN VS. BONUS			
5. 10. 15. 20. 25. 30. 35. 40. 50. 60. 70. 80.	-805.719 -762.369 -722.621 -686.063 -652.343 -621.158 -592.248 -565.385 -540.370 -495.214 -455.624 -420.689 -389.686 -362.030 -337.243	-525.707 -503.781 -483.245 -463.973 -445.857 -428.799 -412.714 -397.525 -369.570 -344.466 -321.828 -301.338	-928.716 -854.884 -792.051 -737.809 -690.415 -648.580 -611.325 -577.897 -520.271 -472.239 -431.504 -396.470
RATE OF RETURN, PCT.	00.0	00.0	
UNDISCOUNTED PAYOUT, YRS		0.00	
UNDISCOUNTED NET/INVEST.		0.28	
DISCOUNTED NET/INVEST.	-0.04	0.27	

NOTES

DELTA DRILLING COMPANY

RESERVES AND ECONOMIC

AS OF DATE: 1/1/1982

PERIOD ENDING	12-82	12-83	12-84	12-85	3.6 YR TOTAL
OWNERSHIP		-			
1) WORKING INTEREST, % 2) REVENUE INTEREST, % INVESTMENTS, M\$					
3) BORROWED CAPITAL 4) EQUITY INVESTMENTS 5) RISK 6) TOTAL OIL PHASE	0.000 0.000	760.000 0.000	0.000	0.000 0.000	0.000 760.000 0.000 760.000
7) GROSS OIL, MB 8) NET OIL, MB 9) OIL REVENUE, M\$ 10) OIL PRICE, \$/B GAS PHASE	1.070 35.606	0.557 20.367	0.289 11.650	0.099 4.330	2.488 2.016 71.953 35.70
11) GROSS GAS, MMF 12) NET GAS, MMF 13) GAS REVENUE, M\$ 14) GAS PRICE, \$/MCF ECONOMICS, M\$	2.890 10.402	1.503 5.409	0.781 2.813		5.442
15) GROSS REV. TO INTR. 16) - SEV. TAX 17) - WPT TAX PAID 18) - AD VALOREM TAX 19) - OPERATING COSTS 20) - CAPITAL REPAYMENT 21) - INTEREST PAID 22) = NET INCOME 23) - INVESTMENTS & RSK 24) = BFIT NET PRESENT WORTH @ 15.00 %	0.000 0.000 0.000 32.881 0.000 0.000 13.128 0.000	0.000 0.000 0.000 36.827 0.000 0.000	0.000 0.000 0.000 41.246 0.000 0.000 -26.783 0.000	0.000 0.000 26.309 0.000 0.000 -21.013 0.000	0.000 0.000 0.000 137.263 0.000 0.000 -45.719 760.000
	0.000 12.223	-8.903 657.653 -666.556 -654.333-	0.000 -18.672	0.000 -13.057-	457.453 -484.043

DATE:11/08/82 TIME:14:43:10 FILE: INFIL FILE: SETYEAR PROJ: 0

PROJECT DATA

	_							
SCB AMDOO BRANTLEY OFFSET	810 SCB	INVESTMENT	710 LSE/WI 720 LSE/NPI	610 OPC/T	510 PRI/OIL 515 PRI/GAS	420 GAS/01L	410 OIL	ITEM
NTLEY OFFSE	248.00	TANGIBLES & INTANGIBLES	100.00 81.00	2600.00	32.00 3.60	2.70	450.00	SCHEDULING RATES
17	512.00 M#G	% INT	××	×	3,60 ×	×	15.00 B/M	RATES
	O M\$G	NOIBLES	**	M/\$	\$/B	8/N	M/B.C	9)
	1/83	TIME					×	SCHEDULE UNTIL
	ΑD		LIFE LIFE	LIFE	L1EE	LIFE	YRS	CNTIL
	PE/A	PROCEDURE		HOS	H 00 00	LIN	СРД	PROCEDURE
	0.00	PROCEDURE		POC	POIL	TIME	48.00	RM

RESERVES AND ECONOMICS

AS OF DATE: 1/1/1982

					0.000 P		
PERIOD ENDING	12-82	12-83	12-84	12-85	12-86	12-87	5.2 YR TOTAL
OWNERSHIP	1 1 1	1	1	1 1 1		-	
1) WORKING INTEREST, % 100.000 100.000 100.000 100.000 100.000 100.000 100.000 2) REVENUE INTEREST, % 100.0000 100.000 100.000 100.000 100.000 100.000 100.000 100.000 100.000	100.000	100.000	100.000	100.000	100.000	100.000	100.000
INVESTMENTS, M\$							
3) BORROWED CAPITAL	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4) EQUITY INVESTMENTS	0.00	760.00	0.00	0.00	0.00	0.00	7,60.00
5) RISK	0.00	0.00	0.00	0.00	0.00	0.00	0.00
OIL PHASE	0.00	760.00	0.00	0.00	0.00	0.00	760.00
7) GROSS OIL, MB	3.96	2.06	1.07	0.56	0.29		7.99
	3.96	2.06	1.07	0.56	0.29	0.05	7.99
	131.88	75.43	43.15	24.68	14.12		291.71
10) OIL PRICE, \$/B GAS PHASE	33.27	36.60	40.26	44.28	48.71		36.50

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	32) BFIT NET		-	PRESENT WORTH @ 15.00	24) = BFIT NET	ı	22) # NET IN	1	ı	1	i	ı	16) - SEV. TAX	15) GROSS REV.	ECONOMICS, M	14) GAS PRICE, \$/MCF	13) GAS REVENUE, M\$	12) NET GAS, MMF	11) GROSS GAS, MMF	111111111111111111111111111111111111111
	NET	NTS & BISK	TH.	H @ 15.00 %	ET	INVESTMENTS & DOK	OME	INTEREST PAID	CAPITAL REPAYMENT	ING COSTS	AD VALOREM TAX	WET TAX PAID	AX	V. TO INTR.	; s	E, \$/MCF	INCIE, M\$	HMM	S, MMF	
	24.33 24.33													170.40		3.600	90.59 90	10.70	10.70	
	-648.68 -624.35				-748.86	760.00	11.14	0.00	0.00	36.83	0.00	0.00	0.00	95.47		3.600	20.03	5.57	5.57	
	1.48 -622.87	0.00	1.48											53.56		3.600	10.42	2.89	2.89	
	-9.71 -632.59			٠	-16.10	0.00	-16.10	0.00	0.00	46.20	0.00	0.00	0.00	30.10		3.600	5.42	1.50	1.50	
	-18.17 -650.76				-34.81	0.00	-34.81	0.00	0.00	51.74	0.00	0.00	0.00	16.93		3.600	2.82	0.73	0.78	
	-5.22 -655.98	0.00	-5.22											2.92		3.600	0.46	0.13	0.13	
	-655.98 -655.98	657.65	1.68		-782.48	760.00	-22.48	0.00	0.00	222.76	0.00	0.00	0.00	369.38		3.600	77.67	21.58	21.58	

1 SCB AMOCO BRANTLEY OFFSET

AFTER TAX ECONOMICS

AS OF DATE: 1/1/1982

	= F.I.T. 12.02	- WPT REFUND 0.00	- INVESTMENT CREDIT 0.00	* TAX RATE, % 46.0		- INTEREST 0.00	- DEPLETION 0.00	= NET 26.13	- DEPRECIATION 0.00	- EXPENSED INV. 0.00	- OVERHEAD 0.00	- OPR. COSTS & AD T 32.88	- WPT TAX FAID 0.00	- SEVERANCE TAX 0.00	170.40	ı	C DOLDER OTTONO, MA		_		1) EXPENSED & RISK 0.00	INVESTMENTS, MS		PERIOD ENDING 12-82
ğ.	-230.39	0.00	0.00	46.0	-500.86	0.00	0.00	-500.86	0.00	512.00	0.00	36.83	0.00	0.00	95.47		1	760.00	248.00	0.00	512.00			12-83
л Э Л	0.97	0.00	0.00	46.0	2.12	0.00	0.00	2.12	0.00	0.00	0.00	41.25	0.00	0.00	53.56		•	0.00	0.00	0.00	0.00			12-84
300	-7.41	0.00	0.00	46.0	-16.10	0.00	0.00	-16.10	0.00	0.00	0.00	46.20	0.00	0.00	30.10		1	0.00	0.00	0.00	0.00			12-85
1 / 02	-16.01	0.00	0.00	46.0	-34.81	0.00	0.00	-34.81	0.00	0.00	0.00	51.74	0.00	0.00	16.93		•	0.00	0.00	0.00	0.00		1	12-86
0					-10.96												1	0.00	0.00	0.00	0.00			12-87
349-38	-245.86	0.00	0.00	46.0	-534.48	0.00	0.00	-534.48	0.00	512.00	0.00	222.76	0.00	0.00	369.38			760.00	248.00	0.00	512.00		1	5.2 YR TOTAL

DATE:11/03/82 TIME:14:48:10 FILE: INFIL FILE: SETYEAR PROJ: 0

32.88 36.83 41.25 46.20 51.74 13.88 222.76 112.02 -230.39 0.97 -7.41 -16.01 -5.04 -245.86 14.11 241.54 1.14 -8.69 -18.79 -5.92 223.38 0.00 0.00 0.00 0.00 0.00 0.00 0.00 14.11 241.54 1.14 -8.69 -18.79 -5.92 223.38 0.00 760.00 0.00 0.00 0.00 0.00 0.00 14.11 -518.46 1.14 -8.69 -18.79 -5.92 223.38 14.11 -518.46 0.80 -5.24 -9.81 -2.82 190.65 0.00 657.65 0.00 0.00 0.00 0.00 657.65 13.14 -449.92 -449.12 -454.37 -464.18 -467.00 -467.00 13.15 -14 -449.92 -449.12 -454.37 -464.18 -467.00 -467.00 FILE: INFIL FILE: SETYEAR FROJ: 0	SOB AMUCU BRANTLEY OFFSET	30) NET INCOME 31) INVESTMENTS & RISK 32) A.F.I.T. NET 33) CUM. A.F.I.T. NET	21) - OFR. COSTS & ATX 22) - F.I.T. 23) = A.F.I.T. 24) - LOAN REPAYMENT 25) - INTEREST 26) = NET INCOME 27) - INVESTMENTS & RSK 28) = A.F.I.T. NET PRESENT WORTH @ 15.00 %
36.83 41.25 46.20 51.74 13.88 222.76 -230.39 0.97 -7.41 -16.01 -5.04 -245.86 241.54 1.14 -8.69 -18.79 -5.92 223.38 0.00 0.00 0.00 0.00 0.00 0.00 241.54 1.14 -8.69 -18.79 -5.92 223.38 760.00 0.00 0.00 0.00 0.00 0.00 -518.46 1.14 -8.69 -18.79 -5.92 233.62 194.60 0.80 -5.24 -9.81 -2.82 190.65 -657.65 0.00 0.00 0.00 0.00 57.65 -463.06 0.80 -5.24 -9.81 -2.82 467.00 -449.12 -454.37 -464.18 -467.00 -467.00 -618.14 -8.69 -18.79 -5.92 -536.62 DATE: 11/08/82 TIME: 14:48:10 FILE: SETYEAR FROJ: 0		13.14 0.00 13.14 13.14	32,88 12.02 14.11 0.00 0.00 14.11 0.00
41.25 46.20 51.74 13.88 222.76 0.97 -7.41 -16.01 -5.04 -245.86 1.14 -8.69 -18.79 -5.92 223.38 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	·	194.60 657.65 -463.06 -449.92	36.83 -230.39 241.54 0.00 0.00 241.54 760.00 -518.46
46.20 51.74 13.88 222.76 -7.41 -16.01 -5.04 -245.86 -8.69 -18.79 -5.92 223.38 0.00 0.00 0.00 0.00 -8.69 -18.79 -5.92 223.38 0.00 0.00 0.00 760.00 -8.69 -18.79 -5.92 536.62 -5.24 -9.81 -2.82 190.65 0.00 0.00 0.00 657.65 -5.24 -9.81 -2.82 467.00 -454.37 -464.18 -467.00 -467.00 DATE:11/08/82 TIME:14:48:10 FILE: SETYEAR FROJ: 0		0.80 0.00 0.80 -449.12	41.25 0.97 1.14 0.00 0.00 1.14 0.00
51.74 13.88 222.76 -16.01 -5.04 -245.86 -18.79 -5.92 223.38 0.00 0.00 0.00 -18.79 -5.92 223.38 0.00 0.00 760.00 -18.79 -5.92 -536.62 -9.81 -2.82 190.65 0.00 0.00 657.65 -9.81 -2.82 -467.00 -464.18 -467.00 -467.00 DATE:11/08/82 TIME:14:48:10 FILE: SETYEAR PROJ: 0		-5.24 0.00 -5.24 -454.37	- 8.69 - 8.69 - 8.69 - 8.69 - 8.69
13.88 222.76 -5.04 -245.86 -5.92 223.38 0.00 0.00 0.00 0.00 -5.92 223.38 0.00 760.00 -5.92 -536.62 -2.82 190.65 0.00 657.65 -2.82 -467.00 -467.00 -467.00 ATE:11/08/82 TIME:14:48:10 TILE: SETYEAR ROJ: 0	77 T T T T T T T T T T T T T T T T T T	-9.81 0.00 -9.81 -464.18	51.74 -16.01 -18.79 0.00 0.00 -18.79 -18.79 -18.79
222.76 -245.86 223.38 0.00 223.38 760.00 -536.62 190.65 657.65 -467.00 -467.00 -467.00	DATE:11/0 FIME:14:/ FILE: INF FILE: SET FROUT O	-2.82 0.00 -2.82 -467.00	
)8/82 18:10 FIL	190.65 657.65 -467.00	222.76 -245.86 223.38 0.00 0.00 223.38 760.00

ECONOMIC INDICATORS

AS OF DATE: 1/1/1982

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°RESENT WORTH PROFILE AND RATE-OF-RETURN VS. BONUS TABLE	TABLE		
	782.475	-536.617	-993.734
10 v.	-735,592 -693,697	-511.248 -488.162	-896.636 -818.378
		-466.999	-753.707
	521.793	-447.476	-699.162
	-590.632	-429.372	-652.374
	562.083	-412.510	-611.671
• w	1505,010 1505,010	-396.744	-575.839
	468, 100	-354,998	-489.562
60. !	-430.327	-330.806	~444.582
	397, 165	-309.125	-406.597
	367.820	-289.531	-373.988
	341,682	-271.742	-345.627
100.	-318.269	-255.531	-320.700
RATE OF RETURN, PCT.	00.0	00.0	
JNDISCOUNTED PAYOUT, YRS.	0.00	0.00	
DISCOUNTED PAYOUT, YRS.	0.00	0.00	
JNDISCOUNTED NET/INVEST.	-0.03	0.29	
DISCOUNTED NETZINVEST.	0.00	0.29	

PROJECT DATA

92000-00	300.00 M/M	SCHEDULE UNTIL	PROCEDU	PROCEDURE
0.00	X \$/B	LIFE	HOS	POIL
3.21	3.21 X	LIFE		
1800.00	× */m	LIFE	SCH	POC
100.00	<×	LIFE		
81.00	×	E E		
TANGIBLES	% INTANGIBLES	TIME	FROCEDU	RE
542.00	998.00 M\$G	1/83 AD	PE/A	0.00
SCB AMOCO WILLIAMS				
	22000.00 0.00 3.21 1800.00 100.00 100.00 81.00 TANGIBLES 542.00	.00 .00 .00 .00 .00 .00 .00 .00 .00 .00	.00 300.00 M/M .00 X \$/B .21 3.21 X .00 X \$/M	EQULING RATES SCHEDULE UNTIL .00 300.00 M/M 10.00 YRS .00 X \$/B LIFE .21 3.21 X LIFE .00 X % LIFE

DATE:11/08/82
TIME:14:56:21
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FILE: SETYEAR
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NET GIL, MB 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0	00 0.00 0.00 154	10.0 YR PERIOD ENDING 12-82 12-83 12-84 12-85 12-86 12-87 12-88 12-89 12-90 12-91 TOTAL OWNERSHIP 1) WORKING INTEREST, % 100.000 10	RESERVES AND ECONOMICS AS OF DATE: 1/1/1982
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SCB AMOCO WILLIAMS	30) NET INCOME 31) INVESTMENTS & RISK 32) BFIT NET 33) CUM BFIT NET	15) GROSS REV. TO INTR. 16) - SEV. TAX 16) - SEV. TAX 17) - WPT TAX PAID 18) - AD VALOREM TAX 19) - OFERATING COSTS 20) - CAPITAL REPAYMENT 21) - INTEREST PAID 22) = NET INCOME 23) - INVESTMENTS & RSK 24) = BFIT NET PRESENT WORTH @ 15.00 %
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	34.87 0.00 34.87 -1115.16-	291.32 0.00 0.00 20.00 20.00 0.00 0.00 0.00
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AFTER TAX ECONOMICS

AS OF DATE: 1/1/1982

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											INVESTMENTS, M\$
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SCB AMOCO WILLIAMS	27) - INVESTMENTS & RSK 28) = A.F.I.T. NET PRESENT WORTH @ 15.00 % PRESENT WORTH @ 15.00 % 30) NET INCOME 31) INVESTMENTS & RISK 32) A.F.I.T. NET 33) CUM. A.F.I.T. NET
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ECONOMIC INDICATORS

AS OF DATE: 1/1/1982

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40.	-887.761	-704.190	-937.538
50.	-818.235	-658.219	-349.414
60.	-756.305	-616.213	-776.126
70.	-700.739	-577.693	-713.592
80.	-650.651	-542.302	-659.283
90.	-605.346	-509.744	-611.510
100.	-564.247	-479.756	-569.078
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DISCOUNTED NET/INVEST.	0.17	0.37	

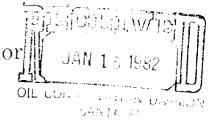
NOTES

DELTA DRILLING COMPANY



United States Department of the Interior

GEOLOGICAL SURVEY
South Central Region
P. O. Box 26124
Albuquerque, New Mexico 87125



JAN 1 4 1982

Delta Drilling Company Attention: Andrew Lattu P. O. Box 3467 Midland, Texas 79702

Gentlemen:

Your 1982 Plan of Development for the South Culebra Bluff Unit, Eddy County, New Mexico, has been received by this office.

The plan as submitted proposes the drilling of unit wells #8, #9, #10, and #11. This plan is approved, however, you are requested to reexamine the unit for drainage of unitized substances by the following wells:

No. 1 Carrasco Com. in $SE_4^1NW_4^1$ sec. 14, T. 23 S., R. 28 E., N.M.P.M.

No. 1 Brantley "B" in NW4SE4 sec. 24, T. 23 S., R. 28 E., N.M.P.M.

No. 1 Williams Gas Com. in $NE\frac{1}{4}NW\frac{1}{4}$ sec. 25, T. 23 S., R. 28 E., N.M.P.M.

Sincerely yours,

ACRIS, SIDA CE LITTLE CITY

FG? Gene F. Daniel
Deputy Conservation Manager
Oil and Gas

Enclosure

cc:

NMOCD, Santa Fe Comm. of Public Lands, Santa Fe

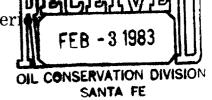


IN REPLY REFER TO:

United States Department of the Inter-

BUREAU OF LAND MANAGEMENT

505 MARQUETTE AVENUE, N.W., SUITE 815 ALBUQUERQUE, NEW MEXICO 87102



#6117

Delta Drilling Company Attention: Larry Schulz P. O. Box 3467 Midland, Texas 79701

Gentlemen:

An approved copy of your 1983 plan of development for the South Culebra Bluff unit area, Eddy County, New Mexico, is enclosed. Such plan, proposing further reservoir and completion studies with no proposed drilling at this time, was approved on this date subject to like approval by the appropriate officials of the State of New Mexico.

Your letter of December 17, 1982 stated that the South Culebra Bluff Unit does not require drainage protection. We are evaluating your justification and all other pertinent data in detail so as to reach a final conclusion as to the necessity of protective wells. We will inform you of the results of our evaluation as soon as possible.

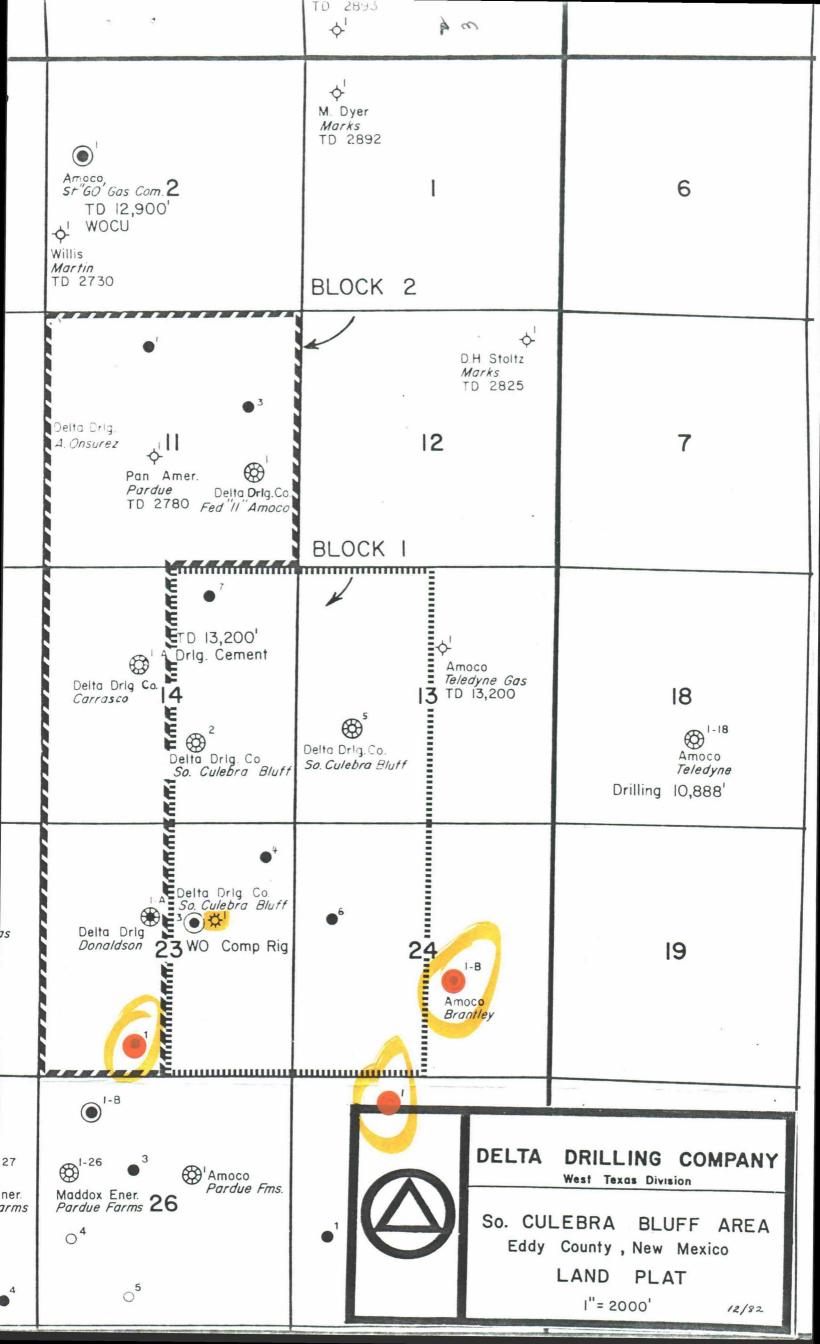
Sincerely yours,

(Ohio Michael - Commission)

FOR Gene F. Daniel
Deputy Minerals Manager
Oil and Gas

Enclosure

CC:



DELTA DRILLING COMP

WEST TEXAS DIVISION

P. O. BOX 3467 • TELEPHONE 915/682-4161 MIDLAND, TEXAS 79702 JAN 0 8 1982

OIL CONSERVATION DIVISION
SANTARRE L. SCHULZ
SANTARRE Manager

ANDREW C. LATTU Exploration Manager

December 31, 1981

0/1

U.S. Geological Survey Supervisor Drawer 1857 Roswell, New Mexico 88201

Energy and Minerals Department Director of the Oil Conservation Division P.O. Box 2088 Santa Fe, New Mexico 87501

Geologic Survey South Central Region P.O. Box 26124 Albuquerque, New Mexico 87125 Re: Plan of Further Development and
Operation
South Culebra Bluff Unit,
October 10, 1977
Contract Number 14-08-0001-16067
Township 23 South, Range 28 East N.M.P.M.
Eddy County, New Mexico

Gentlemen:

Reference is made to the Plan of Further Development and Operation dated December 30, 1980, and the subsequent letter dated March 17, 1981, submitted by Delta Drilling Company as operator of the South Culebra Bluff (SCB) Unit covering the time period December 31, 1980 to December 31, 1981.

The plan called for the drilling of the #7, #8, and #9 Unit wells, and the completion testing of the #6 Unit well.

The SCB #6 has been completed as a producing Bone Spring well.

The SCB #7, drilled in the NW/NE of Section 14 has also been completed as a producing Bone Spring well with a Total Depth of 7500'.

The drilling of Unit well #8 in 1981 was postponed in order to complete reservoir studies from offset Bone Spring wells.

The drilling of Unit well #9 in 1981 was postponed in order to complete an Atoka Sand study for a possible deeper Total Depth for a Unit well.

Further development of the unitized area is proposed as follows:

- A). Evaluation: Complete reserve studies of Unit wells.
- B). Drilling: (1) Current plans are to drill the #8 Unit well in the SW/SE of Section 14.
 - (2) The #9 Unit well will be drilled in the SW of Section 24. This well may be drilled to the Atoka contingent on present geologic studies.
 - (3) Additional drilling in 1982 will include the #10 Unit well in the SE of Section 23, and #11 Unit well in W_2^1 of Sec. 13.
- C). Operating practices for proper conservation of natural resources will be continued.

Approval of this plan is respectfully requested.

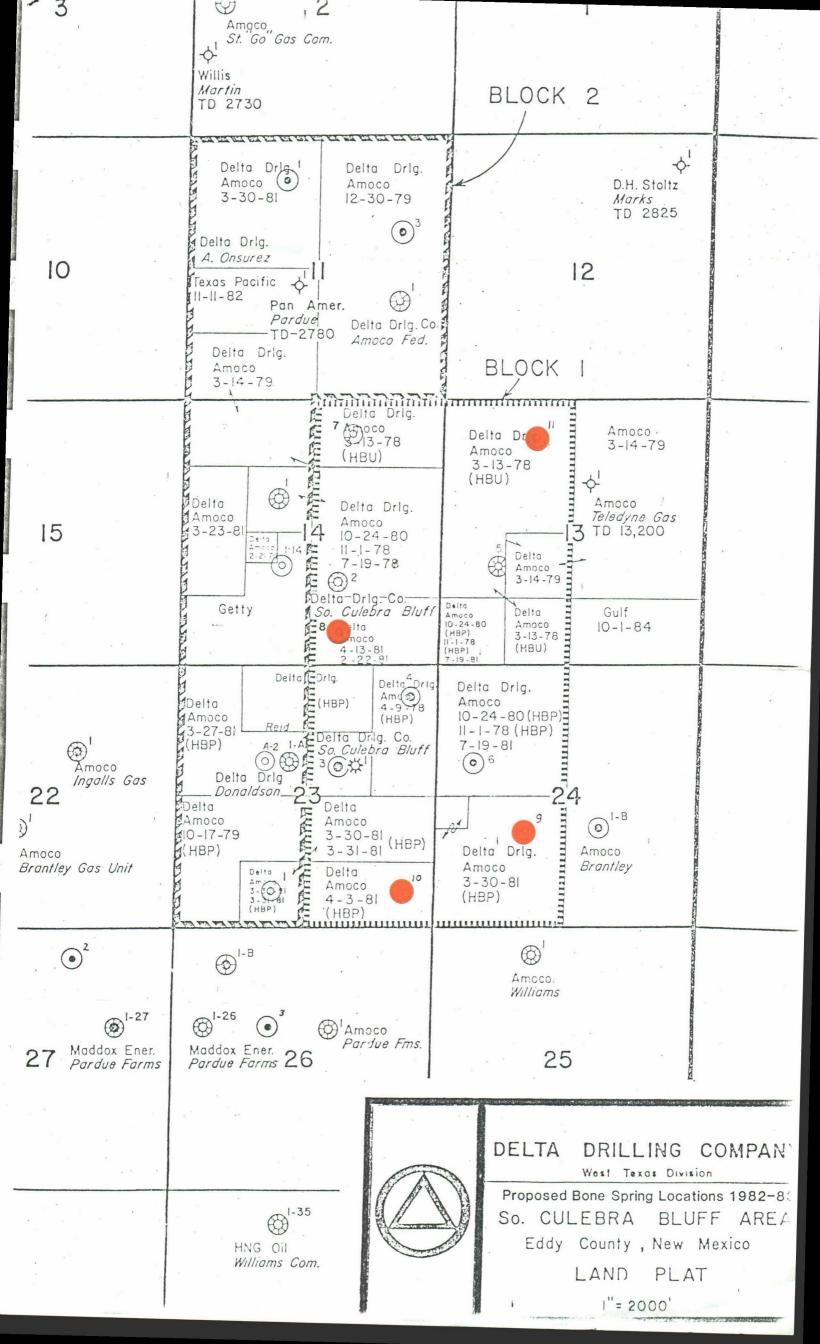
Sincerely yours,

Andrew C. Lattu

West Texas Exploration Manager

AL:WC:kr

Enclosure



South Central Region

P. O. Box 26124 SANTA FE SINGLE Albu Mexico 37125

6117

JUL 3 0 1981

Delta Drilling Company Attn: Andrew Fatton P. O. Box 2012 Tyler, Texas 75710

Go dilaren:

one approved easy of your areases 1991 plan of development for the south Culebra Bluff unit area, 1969 southy, her Mexico is enclosed. Such plan, proposing to duill unit well No. 9, was approved on this date subject to like approval by the appropriate officials of the State of New Mexico.

Cinamely your,

(ORIG. SGD.) JAMES W. SHELTON

FOR Game F. Deniel

Occupy Conservation Ennear

Oil and Gam

Figlosime

cc:
IMOCD, Santa Fe,
Comm of Pub Lands, Santa FE
DS, Roswell District (w/encl)



United States Department of the Interior

MAR C 6 1981 P. 0. Box 26124

- Albuquerque, New Mexico 87125

OIL COME DIVISION

SANTA FE

0 5 MAR 1981

Delta Drilling Company Attention: J. R. King P. O. Box 3467 Midland, Texas 79702

Gentlemen:

Your 1981 Plan of Development for the South Culebra Bluff unit, Eddy County, New Mexico, has been reviewed by this office.

The 1981 plan as submitted proposes to drill wells Nos.7 and 8 to test the Bone Spring formation. Such plan is hereby approved on this date; however, you are requested to re-examine the SW_4^1 sec. 24 for drainage of unitized substances from the Bone Spring and the Morrow formations.

It is further requested that you report to this office within 60 days your finding of such examination as a supplement to your 1981 Plan of Development. Two approved copies are enclosed.

Sincerely yours,

ORIGINAL SIGNED BY:

Gene F. Daniel Deputy Conservation Manager

Enclosures

cc: NMOCD, Santa Fe (ltr only)

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

February 17, 1931

Delta Drilling Company Box 2012 Tyler, Texas 75710

Attention: J. R. King

Re: Case No. 6117
South Culebra Bluff Unit
1981 Plan of Development
and Operation

Gentlemen:

We hereby approve the 1981 Plan of Development and Operation for the South Culebra Bluff Unit, Eddy County, New Mexico, subject to like approval by the United States Geological Survey and the Commissioner of Public Lands.

Two approved copies of the Plan of Development are returned herewith.

Yours very truly,

JUE D. RAMEY Director

JDR/EP/fd
enc.

cc: U.S.G.S. - Albuquerque Commissioner of Public Lands

DELTA DRILLING COMPANY

Box 2012 Telephone 214 595-1911

TYLER, TEXAS 75710

ADDRESS REPLY TO

West Texas Exploration Division P. O. Box 3467 MIDLAND, TEXAS 79702

December 30, 1980

Supervisor U.S. Geological Survey Drawer 1857 Roswell, New Mexico 88201

Director Oil Conservation Division Energy & Minerals Department P.O. Box 2088 Santa Fe, New Mexico 87501 Plan of Further Development & Operation South Culebra Bluff Unit,

October 10, 1977

Contract Number 14-08-0001-16067

Township 23 South, Range 28 East, N.M.P.M.

Eddy County, New Mexico

Gentlemen:

Reference is made to the Plan of Further Development and Operation dated December 31, 1979, submitted by Delta Drilling Company as operator of the South Culebra Bluff Unit covering the time period December 31, 1979 to December 31, 1980.

The plan called for the completion of the #4 and #5 Unit wells and drilling of the #6, #7, and #8 Unit wells.

The #4 Unit well has been completed from Bone Spring perforations preparatory to official potential.

The #5 Unit well was drilled to a total depth of 13,171 feet and tests revealed the Morrow Gas Pay to be non commercial. The #5 has now been completed in the Upper Atoka as a gas well.

The #6 Unit well was drilled as a Bone Spring test to 9500 feet. The #6 Unit well has been cased and is presently being tested through perforations.

The drilling of unit wells #7 and #8 in 1980 was postponed in order to accumulate additional test and production data from offset Bone Spring wells.

Further development of the unitized area is proposed as follows:

- A). Evaluation: Complete testing and evaluation of the #6 Unit well.
- B). Drilling: (1) Current plans are to drill the #7 Unit well in the SW SE Section 14 and the #8 Unit well in the NE SE Section 14. Both wells will be 9800 foot Bone Spring Tests.
 - (2) Additional drilling during 1981 is contingent on economic success of existing and planned completions.
- C). Operating practices for proper conservation of natural resources will be continued.

Approval of this plan is respectfully requested.

Sincerely yours,

J.R. King

JRK:dc

Director

Oil Conservation Division

Energy and Minerals Department

THIS APPROVAL GRANTED SUBJECT TO LIKE APPROVAL BRING GRANTED BY THE INNERD STATES CHOROGICAL SURPRISHED AND THE INNERD STATES CHOROGICAL STATES OF THE CONTRACT OF THE CONTRAC



United States Department of the Interior

GEOLOGICAL SURVEY

P. O. Box 26124
Albuquerque, New Mexico 87125

FEB 07 1980

Delta Drilling Company Attention: R. D. Keadle Box 2012 Tyler, Texas 75710 6117

Gentlemen:

On this date, your 1980 plan of development and operation for the South Culebra Bluff unit area, Eddy County, New Mexico, wherein you propose to evaluate wells No. 4 and No. 5, and to drill wells Nos. 6, 7, and 8 to test the Bone Spring formation, was approved. Such approval is subject to like approval by the appropriate State officials. Two approved copies are enclosed.

Sincerely yours,

(ORIG. SOD.) MANES W. OUTHERLAND

James W. Sutherland Oil and Gas Supervisor, SRMA

Enclosures 2

CC:
NMOCD, Santa Fe
Comm. Public Lands, Santa Fe





ONE HUNDRED YEARS OF EARTH SCIENCE IN THE PUBLIC SERVICE

United States Department of the Interior

GEOLOGICAL SURVEY

P. O. Box 26124

Albuquerque, New Mexico 87125

JUL 1 3 373

OIL CONSERVATION DIVISION
SANTA FE

6117

Delta Drilling Company Attention: Mr. R. D. Keadle P. O. Box 3467 Midland, Texas 79702

Gentlemen:

Two approved copies of your revised 1979 plan of development for the South Culebra Bluff unit area, Eddy County, New Mexico, proposing to drill a well to test the Bone Spring and a well to test the Morrow, are enclosed. Such plan was approved on this date subject to like approval by the appropriate officials of the State of New Mexico.

Sincerely yours,

(ORIG. 1889.) CERE F. TOTAL

for Oil and Gas Supervisor, SRMA

Enclosures (2)

cc; NMOCD, Santa Fe (ltr. only) Com. Pub. Lands, Santa Fe (ltr. only)



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

April 5, 1979

Delta Drilling Company P. O. Box 3467 Midland, Texas 79702

Attention: Mr. Dale Keadle

Re: Case No. 6117

South Culebra Bluff Unit Designation of Participating

Area

Gentlemen:

We hereby approve the Designation of Participating Area for the South Culebra Bluff Unit, Eddy County, New Mexico, subject to like approval by the United States Geological Survey and the Commissioner of Public Lands.

One approved copy of the Designation is returned herewith.

Yours very truly,

JOE D. RAMEY Director

JDR/LT/fd enc.

cc: U.S.G.S. - Roswell
Commissioner of Public Lands

DELTA DRILLING GOMPANY

Box 2012 Telephone 214 595-1911

TYLER, TEXAS 75701

March 30, 1979

ODRESS REPLY TO

Mr. Dale Keadle P. O. Box 3467 Midland, TX 79702

United States Department of the Interior Geological Survey
P. O. Drawer 1857
Roswell, NM 88201

New Mexico Oil Conservation Division P. O. Box 2088
Land Office Building
Santa Fe, NM 87501

ro. 6117

Re: Designation of Participating Area, South Culebra Unit Well No. 2, South Culebra Bluff Unit, Eddy County, New Mexico No. 14-08-0001-16067

Gentlemen:

Reference is made to the Unit Agreement for the South Culebra Bluff Unit Area which has been approved by the New Mexico Oil Conservation Division and the United States Geological Survey.

Delta Drilling Company, as Unit Operator, has drilled the South Culebra Bluff Unit Well No. 2 at a location 1722' FSL and 2032' FEL of Section 14, T23S, R28E, Eddy County, New Mexico, which well was drilled to a depth of 13,130' below the surface and is presently completed as a producing well from the Atoka Lime Formation.

The subject Unit Agreement provides, in Paragraph 11 thereof, that upon completion of a well capable of producing unitized substances in paying quantities, the Unit Operator shall submit for approval a schedule of all land reasonably proved to be productive in paying quantities, such land to constitute a participating area under the terms of such Unit Agreement. Delta submits that the 320 acres of land comprising the E/2 of Section 14, T23S, R28E, Eddy County, New Mexico, has been reasonably proved to be productive of gas in

More har

United States Department of the Interior Geological Survey New Mexico Oil Conservation Division March 30, 1979 Page 2

paying quantities and respectfully requests that the New Mexico Oil Conservation Division and the United States Geological Survey approve such designation effective as of November 20, 1978.

Attached hereto are the following Exhibits:

- (a) Exhibit "A": Plat showing the outline of the 1280 acres included in the South Culebra Unit, the location of the South Culebra Bluff Unit Well No. 2 and the acreage which, Delta submits, should be designated as the Participating Area for the subject well, being the E/2 of Section 14, T23S, R28E, Eddy County, New Mexico, comprising 320 acres of land.
- (b) Exhibit "B": Schedule describing the acreage proposed to be included in such Participating Area and a description of the leases covering such acreage.
- Exhibit "C": Schedule setting forth the alloca-(c) tion of unitized production within such proposed initial Participating Area together with the working ownership thereof.
- (d) Exhibit "D": Structural map.
- (e) Exhibit "E": Cross-Section.
- Exhibit "F": Summary of engineering data (f) supporting this request.

Your consideration in designating the proposed Participating Area described above as the Participating Area for the subject Well will be appreciated very much.

Very truly yours,

DELTA DRILLING COMPANY

By:

Approx

Dale Keadle

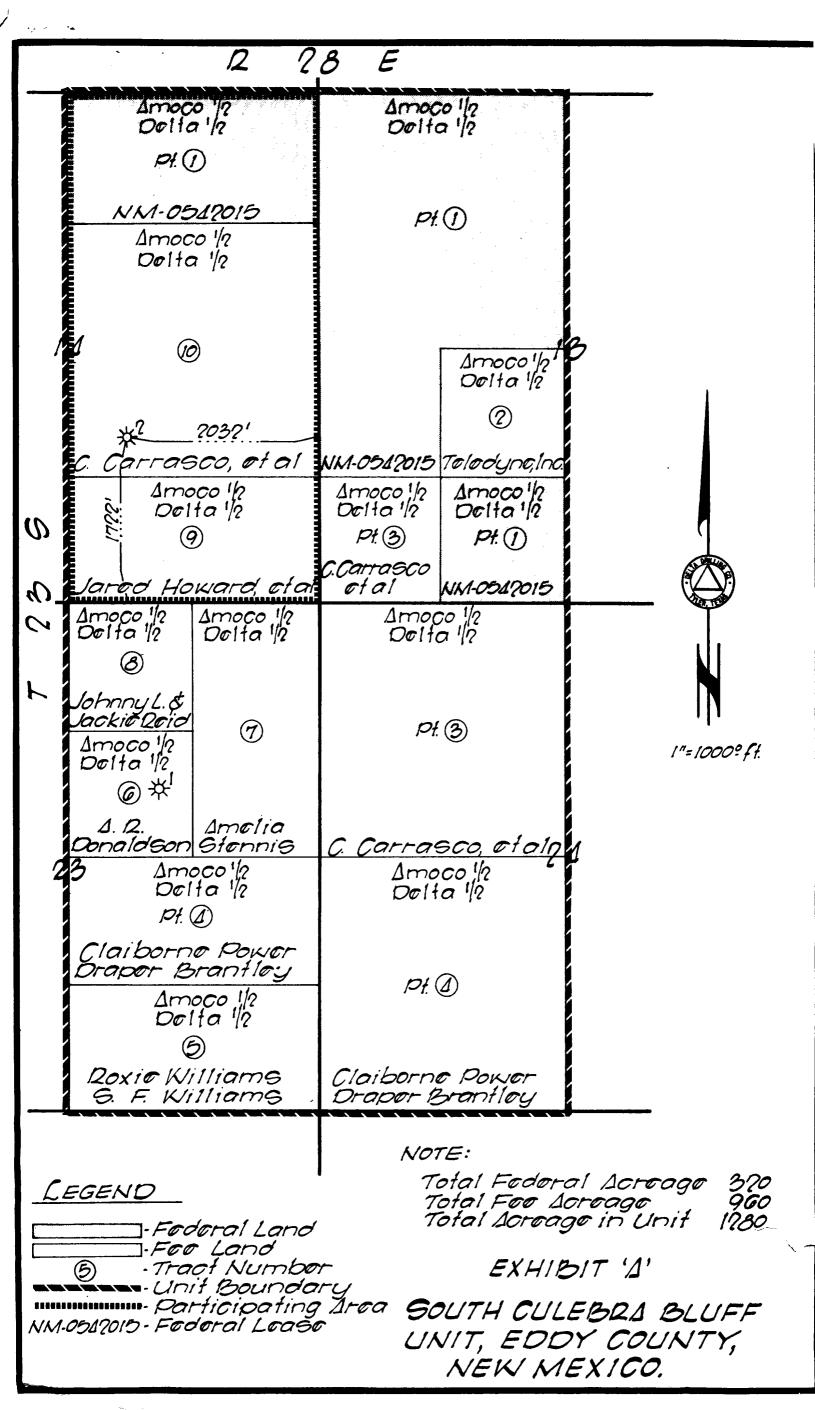
U.S.G.S. cc:

505 Marquette, N.W.

Suite 815

Albuquerque, NM 87102

Energy and the dist.



TRACT NO.	UNIT
ACREAGE DESCRIPTION	
LEASE DESCRIPTION	

PARTICIP ACRE

80.0

1 (Part)

Sec. 14: N/2 of NE/4 T23S, R28E, N.M.P.M.

Sec. 14: S/2 NE/4 and N/2 SE/4T23S, R28E, N.M.P.M.

10

Miscellaneous Records, Eddy County, New Mexico H. P. McLish, recorded in Book 143, Page 323, 1964, executed by United States of America to NM 0542015 - 0il and Gas Lease dated May 1,

Miscellaneous Records, Eddy County, New Mexico by Candelario Carrasco to Amoco Production Oil and Gas Lease dated July 19, 1973, executed Company, recorded in Book 105, Page 512,

Wilderspin, recorded in Book 152, Page 388, cuted by Aguila Cattle Co., Inc. to Clifton Oil and Gas Lease dated November 1, 1977 exe-Miscellaneous Records, Eddy County, New Mexico

Miscellaneous Records of Eddy County, New Mexico Production Company, recorded Book 151, Page 831, the Will of Albert Berger, deceased, to Amoco cuted by Crocker National Bank, Trustee under Oil and Gas Lease dated October 24, 1977 exe-

Miscellaneous Records, Eddy County, New Mexico. cuted by Saul Baker et ux to Amoco Production Company, recorded in Book 151, Page 789, Oil and Gas Lease dated October 24, 1977 exe-

Oil and Gas Lease dated April 13, 1973 executed by Jared Howard to Amoco Production Company, Records, Eddy County, New Mexico. recorded in Book 100, Page 415, Miscellaneous

Records, Eddy County, New Mexico. recorded in Book 100, Page 417, Miscellaneous by Frieda Howard to Amoco Production Company, Oil and Gas Lease dated April 13, 1973 executed 9

Sec. 14: S/2 SE/4 T23S, R28E, N.M.P.M.

EXHIBIT "B"

| |---|

PARTICIPATING ACRES

(Continued)

recorded in Book 155, Page 553, Miscellenous Records, Eddy County, New Mexico. by Seaborn W. Price to Amoco Production Company, Oil and Gas Lease dated March 6, 1978 executed

New Mexico. Page 421, Miscellaneous Records, Eddy County, Amoco Production Company, recorded in Book 100, Estate of Reginald George Howard, Deceased, to by Betty R. Howard, Indv. and Indep. Exec. of Oil and Gas Lease dated April 13, 1973 executed

Miscellaneous Records, Eddy County, New Mexico. executed by Harvey R. Hicks to Amoco Production Oil and Gas Lease dated February 22, 1978, Company, recorded in Book 100, Page 423,

by David R. Howard et ux to Amoco Production Miscellaneous Records, Eddy County, New Mexico. Company, recorded in Book 100, Page 425, Oil and Gas Lease dated April 13, 1973 executed

ALLOCATION SCHEDULE SOUTH CULEBRA BLUFF UNIT PROPOSED PARTICIPATING AREA EDDY COUNTY, NEW MEXICO

TRACT NO. 1 (Part)	DESCRIPTION T23S, R28E, N.M.P.M. Sec. 14: N/2 NE/4	PARTICIPATING AREA 80.00	PERCENT OF PARTICIPATING AREA 25	WORKING INTEREST OWNERS Delta Drilling Company - 50% Amoco Production Company - 50%
	T23S, R28E, N.M.P.M. Sec. 14: N/2 NE/4 T23S, R28E, N.M.P.M. Sec. 14: S/2 NE/4 and N/2 SE/4	80.00		25 50
	T23S, R28E, N.M.P.M.	80.00	25	OI.