District I PO Box 1980, Hobbs, NM 88241-1980

District II

811 South First, Artesia, NM 88210 District III

1000 Rio Brazos Rd., Aztec, NM 87410

District IV

State of New Mexico Energy, Minerais & Natural Resources Department

OIL CONSERVATION DIVISION 2040 South Pacheco Santa Fe, NM 87505

Form C-101 Revised October 18, 1994 Instructions on back

Submit to Appropriate District Office

State Lease - 6 Copies

Fee Lease - 5 Copies

2040 South Pache			DAIT :	ΤΟ DD Ι	rr ne ei	wern bei		· · · ·		_	NDED REPORT
APPLICA	TION	FOR PE			LL, RE-EN		EPE	N, PLUGBA	ACK,		DD A ZONE
					tion Comp.						OGRID Number
				Box 800							000778
	**		Denve	r, CO							API Number 45-19295
_	erty Code		C+-4			Property Name					' Well No.
17	841		Stat	:e Gas (Com CH /						1 レ
	<u> </u>	T				Location					
UL or lot no.	Section	Township	•	Lot Idn	Feet from the		ine	Feet from the		Vest line	County
G °	36	30N	1 1W		1640√	North		1750	Eas	3 t	San Juan
⁸ Proposed Bottom Hole Location If Different From Surface											
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South	ine	Feet from the	East/W	Vest line	County
	319		ed Pool 1		<u></u>	1		14 Propos	ed Pool 2	2	
Blanco Mesaverde N/320											
" Work T	`~~~ ^ode		1 W-H Tun	- C	13 (2-1)	1.00.4		*** m o			
	ype Coue		² Well Type	: Code		le/Rotary		14 Lease Type Co	de		und Level Elevation
N '• Mu	***_1_		G ' Proposed			ary		S			920'
" Mu No	ltipie		Proposed	Depth	14 Formation			" Contractor			24 Spud Date
			5047'		Mesaver			ztec		1/	1/95
Hole Siz		Casin				and Cement					·
12.25"	<u> </u>		ng Size		ng weight/foot	Setting De	pth	Sacks of			Estimated TOC
7.875"	7 07511		24#				90 sx C			Surface	
4.750"		5.500		14#		2619'		459 sx C1 B			Surface
4.700		2.875		6.5	#	5047	5047' 214 sx C1 I		C1 B		2300 '
······································											
Describe the proposed program. If this application is to DEEPEN or PLUG BACK give the data on the present productive vone and proposed are application.											
Describe the proposed program. If this application is to DEEPEN or PLUG BACK give the data on the present productive zone and proposed new productive zone. Describe the blowout prevention program, if any. Use additional sheets if necessary.											
OCT 1 9 1995											
Cil God. Dov.											
								DIST.		/Vo	
23 I hereby certify of my knowledge	that the infand belief.	ormation giver	n above is to	rue and compl	ete to the best	OIL CONSERVATION DIVISION					
Signature:	3 th	Ha	2 Rel	1 ₀ .	A	Approved by:	21	1.8		1)	10-19-75
Printed name:	Patty	Haefel	e	~	Т	Title: DEPUTY	OIL	& GAS INSPEC	TOR, D	iST. # 3	
Title:	Staff	Assista	nt		Α	Approval DaGCT	1	9 1995 E	xpiration	DOCT	1 9 1576
Date:			Phone:	(303) 83	0 4000	Conditions of Appro	oval :	- / /./ 1			
10/	16/95		\	303) 63	0-4988	Attached					

C-101 Instructions

Measurements and dimensions are to be in feet/inches. Well locations will refer to the New Mexico Principal Meridian.

IF THIS IS AN AMENDED REPORT CHECK THE BOX LABLED "AMENDED REPORT" AT THE TOP OF THIS DOCUMENT.

- Operator's OGRID number. If you do not have one it will be assigned and filled in by the District office.
- 2 Operator's name and address
- 3 API number of this well. If this is a new drill the OCD will assign the number and fill this in.
- 4 Property code. If this is a new property the OCD will assign the number and fill it in.
- 5 Property name that used to be called 'well name'
- 6 The number of this well on the property.
- 7 The surveyed location of this well New Mexico Principal Meridian NOTE: If the United States government survey designates a Lot Number for this location use that number in the 'UL or lot no.' box. Otherwise use the OCD Unit Letter.
- B The proposed bottom hole location of this well at TD

9 and 10 The proposed pool(s) to which this well is beeing drilled.

- 11 Work type code from the following table:
 - N New well
 - E Re-entry
 - D Drill deeper
 - P Plugback
 - A Add a zone
- 12 Well type code from the following table:
 - O Single oil completion
 - G Single gas completion
 - M Mutiple completion
 - I Injection well
 - S SWD well
 - W Water supply well
 - C Carbon dioxide well
- 13 Cable or rotary drilling code
 - C Propose to cable tool drill
 - R Propose to rotary drill
- 14 Lease type code from the following table:
 - S State
 - P Private
- 15 Ground level elevation above sea level
- 16 Intend to mutiple complete? Yes or No
- 17 Proposed total depth of this well
- 18 Geologic formation at TD
- 19 Name of the intended drilling company if known.
- 20 Anticipated spud date.
- Proposed hole size ID inches, proposed casing OD inches, casing weight in pounds per foot, setting depth of the casing or depth and top of liner, proposed cementing volume, and estimated top of cement
- 22 Brief description of the proposed drilling program and BOP

program. Attach additional sheets if necessary.

The signature, printed name, and titis of the person authorized to make this report. The date this report was signed and the telephone number to call for questions about this report.

District I PO Box 1980, Hobbs, NM 88241-1980 District II PO Drawer DD, Artesiu, NM 88211-0719 District III 1000 Rio Brazos Rd., Aztec, NM 87410 District IV

PO Box 2088, Santa Fe, NM 87504-2088

State of New Mexico Energy, Minerals & Matural Resources Department

OIL CONSERVATION DIVISION PO Box 2088 Santa Fe, NM 87504-2088 Form C-102 Revised February 21, 1994 Instructions on back

Submit to Appropriate District Office

State Lease - 4 Copies
Fee Lease - 3 Copies

■ AMENDED REPORT

		WE	LL LO	CATION	AND AC	REAGE DEDI	CATION PL	.AT		•	
l .	VPI Numb			' Pool Cod	•	³ Pool Name					
30-0	145-2	3295	7	2319		Blanco Mesa	averde	-1		:	
4 Property	Code				3 Propert	y Name			•	Well Number	
1784	4	STAT	E GAS	COM						SH # 1	
'OGRID	Ńο.				¹ Operate	or Name				*Elevation	
000778	<u></u> i	AMO	CO PE	RODUC	<u> TION CO</u>					5920	
					10 Surface	Location					
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/Wes	t line	County	
G	36	30 N	11 W		1640	NORTH	1750	EA	ST	SAN JUAN	
			11 Bot	tom Hol	e Location	If Different Fro	om Surface	,			
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/Wes	t line	County	
12 Dedicated Acr			Consolidatio		order No.	TOW INSTITUTE ALL	INTERFERE	AUE DE	TN 60	NGOL ID ATED	
'NO ALLOV	AARLE ,					ION UNTIL ALL BEEN APPROVED			EN CO	N2OLIDA I ED	
16					1304. 98	1304.99	17 OPER	RATOR	CER	TIFICATION	
										contained herein is	
					-,049/-		Irue and com	pleie to the b	est of my	knowledge and belief	
							M Pat	1.9	400	De la	
	-				—	1750'	Signature Patty	Haefe	le		
					•	//50	Printed Nam				
								Assis	tant		
							Title	. / 0 E			
				1			10/16 Date	1/95			
			-	36			18SURV	EYOR	CERT	TIFICATION	
		~					I hereby certi was plotted fi	fy that the wi	ell location es of actua	n shown on this plat ni surveys made by me	
							or under my . correct to the			he same is true and	
					CEN	VEN	1			005	
						4 (5)	Date of Surve		5, 19		
					nrt 1 9 1	195 <u>U</u>	Signature and	CA ON	Cisional &	dyrycher:	
				`	ייבו ואון	_		Ch. M	MEXIC	()	
				(c. 1h.	GELY. DIST. 3	DUV.		~ / × / /	016	SURVEYOR	
					g comment	· ·	7016		<u> </u>	2	

AMOCO PRODUCTION COMPANY

DRILLING and COMPLETION PROGRAM

Lease/Well#:	State Gas Com CH #1					
County:	San Juan Ne	ew Mexico	Surface Location:	1640' FNL & 175	50' FEL of Section 36, T	30N, R11W
Former name:			Field:		, , , , , , , , , , , , , , , , , , ,	, , , , , , , , , , , , , , , , , , ,
OBJECTIVE:	Mesa Verde Gas					
METHOD OF DR	ILLING		APPROXIMATE DEPT	HS OF GEOLOGIC	AL MARKER	*. *.
TYPE OF TOOLS	S DE	PTH OF DRILLING	Actual GLEstim		5920	5932
Rotary		Ground Level - TD	Marker		Depth (ft.)	SS Elev. (ft.)
LOGGING PRO	GRAM		Ojo Alamo		1,046	4,886
TYPE		DEPTH	Kirtland		1,117	4,815
			Fruitland Coal		1,974	3,958
No open hole logs	s required.		PC		2,324	3,608
			Lewis Shale		2,469	3,463
			Cliff House *		3,885	2,047
			Menefee Shale *		4,014	1,918
			Point Lookout *		4,607	1,325
			Mancos		4,997	935
1			Gallup			
Logging Program	Remarks:		Greenhorn			
			Graneros			
			Dakota			
			TOTAL DEPTH		5,047	885
			* Possible pay			
			**Probable completion Ojo Alamo is possible u			
SPECIAL TEST	·e		DRILL CUTTING SA		DDILLING T	ME
TYPE		EPTH INTERVAL, ETC	FREQUENCY	DEPTH	DRILLING TI FREQUENCY	DEPTH
None	Di	I THINTERVAL, ETC	FREQUENCY	DEFIN	Geolograph	Int - TD
110110			Remarks:	· · · · · · · · · · · · · · · · · · ·	Geologiapii	111111111111111111111111111111111111111
Remarks:		··· (**)	Mud Logging Program:	None		
			Coring Program:	None		
MUD PROGRA						-
Approx. Interval	Type Mud	Weight, #/gal	Vis, sec/qt		W/L, cc's/30 min.	
0' - 2619' (1) (2)	Water	8.6 - 9.2	Sufficient to clean hole		N/C	
2619' - TD (3)	Air/Mist	8.0 - 9.2	Sufficient to clean note		N/C	
Mud Program Re	marks:					
1 - The hole will r 2 - If required to r	equire sweeps to keep unl mud up, mud up with a LSI	oaded while fresh water drilling. Le ND designed for good hole cleaning ND designed for good hole cleaning		equency.		
CASING PROG	RAM:		712			
Casing String	Estimated Depth	Casing Size	Hole Size	Landing Point, C	ement, Etc	
Conductor	120	9 5 (0)				
Surface	2,619	8-5/8" 5-1/2"	7 075"	1.2		
Production	5,047	2-7/8"	7.875" 4.75"	1, 2 3		
	5,547	2-776	4./J	J		
	ent to surface. ninimum of 150' into the Le	ewis Shale the surface casing overlap.				
GENERAL REM	IARKS:			· · <u> ·</u>		
Dunimana Hait Ca		I - L!				

Form 46 Reviewed by:	Logging program reviewed by:	
PREPARED BY:	APPROVED:	APPROVED:
P. Edwards/Logan/Ovitz		
Form 46 7-84bw	For Production Dept	For Exploration Dept
Date: 10/3/95	Rev. Date: 10/3/95 15:38	File ischum2e ylw

Business Unit Engineering staff to design completion program.

CEMENTING PROGRAM

State Gas Com CH #1

blp

Well Name:

State Gas Com CH #1

Location:

Sec 36, T30N, R11W

County: State:

San Juan New Mexico Field:

API No.

Well Flac

Formation:

Mesa Verde

KB Elev. (est.) GL Elev. (est.) 5932 ft. 5920 ft.

Casing String	Est. Depth (ft.)	Hole Size (in.)	Casing Size (in.)	Thread	TOC (ft.)	Stage Tool Or TOL (ft.)	Cmt Circ. Out (bbl.)	
Conductor	120	12.25	8.625	8R, ST&C	Surface	NA		
Surface	2,619	7.88	5.500	8R, ST&C	Surface	NA		
Production	5,047	4.75	2.875	8R, EUE	2300	NA		
Casing Propert	es:	(No Safety Fa	ctor Included)					
Casing String	Size	Weight	Grade	Burst	Collapse	Joint St.	Capacity	Drift
	(in.)	(lb/ft.)		(psi.)	(psi.)	(1000 lbs.)	(bbl/ft.)	(in.)
Conductor	8.625	24	J-55	2950	1370	244	0.0636	7.972
Surface	5.500	14	J-55	4270	3120	172	0.0244	6.241
Production	2.875	6.5	N-80	10570	11160	144	0.00579	2.347

301 " 10 A11/1911	SCP -	TD	Air/Mi
	SCP.	חד	Δir/R/ti

(ft.)

Water/Spud

(lb/gal)

PV ΥP

Fluid Loss

< 20

<10 < 15

0 - SCP 8.6-9.2 ir/Mist NA

Cementing Program:			•
	Conductor	Surface	Production
Excess %, Bit	75	60	30
Excess %, Caliper	NA	NA	20
BHST (est. deg. F)	60	100	140
Pipe Movement	NA	Rotate/Reciprocate	Rotate/Reciprocate
Rate, Max. (bpm)	6	6	4
Rate, Recommended (bpm)	6	6	4
Pressure, Max. (psi)	200	2000	2000
Shoe Joint	40	80	40
Batch Mix	NA	NA	NA
Circulating prior cmtng (hr.)	0.5	1.5	1
Time Between Stages,(hr.)	NA	NA	NA
Special Instructions	1,6,7	1,6,8	2,4,6

- 1 Do not wash pumps and lines
- 2 Wash pumps and lines.
- 3 Do not reverse out
- 4 Run Blend Test on Cement
- 5 Record Rate , Pressure, and Density on 3.5" disk
- 6 Confirm densometer with pressurized mud scales
- 7 1" cement to surface if cement is not circulated.
- 8 If cement is not circulated to the surface, run temp. survey 10-12 hr. after landing plug.

Notes:

- *** Displace top plug on the production casing job with 0.2% Clay Fix II or 2% KCI water.
- *** Do not wash up on top of plug. Wash pumps and lines. We want to do rig less completions.

Version No. 1 10/12/95 976A1.XLS

CEMENTING PROGRAM

State Gas Com CH #1

Conductor:

Preflush

10 bbl.

90 sk

Fresh Water

Slurry 1 TOC@Surface

Standard Cement

+ 2% CaCl2 (not mixed)

or 1.5 cu. yard Ready Mix

Slurry Properties:

density

yield

water

(lb/gat)

(ft3/sk)

(gal/sk)

slurry 1

15.60

1.18

5.20

Casing Equipment:

(Halliburton) 8 5/8", 8R, ST&C

1 Top Wooden Plug

Surface:

Preflush

20 bbi.

Mud Flush

20 bbl.

Fresh Water + dye marker

Lead

Slurry 1 TOC@Surface 50/50 Standard Cement/Blended Silicalite

597 cu. ft.

129 cu. ft.

106 cu. ft.

+ 02% gel (total) + 0.5% Versaset

+ 0.4% Halad-344

+ 02% CaCl2 + 1/4 lb/sk flocele

Tail

slurry 2

100 sk

Standard Cement

+ 0.4% Halad-344 + 0.4% CFR-3 + 2.0% Microbond

+ 5 lb/sk gilsonite + 1/4 lb/sk flocele

Slurry Properties:

density (lb/gal)

yield (ft3/sk)

water (gal/sk)

slurry 1 slurry 2 12.00 15.11

2.03 1.29 11.45 5.40

Casing Equipment:

(Halliburton) 5 1/2", 8R, ST&C

1 Type Regular Guide Shoe 1 Super Seal II Float Collar

1 Weld A

14 S-4 Centralizer

1 ea. on 1st 12 joints, 1 ea. above and below Ojo Alamo

1 Top Rubber Plug

CEMENTING PROGRAM

blp

278 cu. ft.

State Gas Com CH #1

Production:

Preflush

05 bbl.

Chemical Wash

02 bbl.

Fresh Water

Lead Cement

TOC @ 2300 ft.

Slurry 1

50/50 Std. Cmt/Poz A + 2% gel (total)

+ 5 lb/sk gilsonite

+ 0.4% Halad-344

+ 1/4 lb/sk flocele

Slurry Properties:

density

yield

water

(lb/gal)

(ft3/sk)

(gal/sk)

slurry 1

13.50

1.32

5.59

Note:

The job should be pumped at 4 bpm max rate. Do not exceed 2 bpm on displacement. Slow to 2 bpm for the displacement. Displace with 2% KCI or 0.2% Clay Fix II water. This is to be a rigless completion. Wash pumps and lines before displacing.

Casing Equipment:

Halliburton

2 7/8", 8R, EUE, (no need to cut long pin)

- 1 Super Seal II Float Shoe
- 10 S-4 Fluidmaster Centralizer (2 7/8" * 4 3/4")
- 1 Lock Clamp
- 1 Weld A
- 1 Omega Latch Down Plug and Baffle



