Fg.m 3160-3

SUBMIT IN TRIPLICATE
(Other instructions or
" marrows sidal

FORM APPROVED
OMB NO. 1004-0136
Expires: February 28, 1995
ESIGNATION AND SERIAL NO

(July 1992)		D STATES	reverse side	<u>-</u>	Expires: Februa			
0	DEPARTMENT		RIOR		5. LEASE DESIGNATION AN			
,5		_AND MANAGEM		1	6. IF INDIAN, ALLOTTEE OF			
<u> </u>					6. IF INDIAN, ALLOTTEE OF	CIRDE NAME		
	CATION FOR PER	RMII TO DRILI	L OR DEEPEN		7. UNIT AGREEMENT NAM	E		
la. TYPE OF WORK DR	ILL X	DEEPEN				22671		
OIL OIL WELL	GAS X OTHER	E	8. FARM OR LEASE NAME, Chavez Gas Com	WELL NO. "C" #1M				
2. NAME OF OPERATOR					9. API WELL NO.			
Cross Timbers Ope 3. ADDRESS AND TELEPHON					30.045	-30111		
2700 Farmington A	ve., Bldg. K. Ste 1	Farmington, NM	87401		10. FIELD AND POOL, OR W	VILDCAT		
4. LOCATION OF WELL (Repo	ort location clearly and in accord	lance with any State requi	rements.*)		Basin Dakota /			
Atourface					Blanco Mesaver			
1,235' FSL & 74 At proposed prod. zone	IU PEC I W C				AND SURVEY OR AREA	D1011		
					Sec 23, T29N,	R10W_		
14. DISTANCE IN MILES AND	DIRECTION FROM NEAREST TOW	N OR POST OFFICE*	Dianco NM Doct Of	ffice	San Juan	NM NM		
This well is loca	ated approx 4 miles	southwest of the	Blanco, NM Post Of O. OF ACRES IN LEASE	17. NO. OF	ACRES ASSIGNED			
LOCATION TO NEAREST				TOTHIS				
PROPERTY OR LEASE LIN (Also to nearest drig. un	it line, if any) /40		20 ROPOSED DEPTH	20. ROTAR	Y OR CABLE TOOLS			
18. DISTANCE FROM PROPOS	SED LOCATION* LING, COMPLETED.		.850'	1	5,850' Rotary Tools			
OR APPLIED FOR, ON TH	IS LEASE, FT. 1UU	0	,650	1 0 0	22. APPROX. DATE WOR	RK WILL START*		
21. ELEVATIONS (Show wh					Summer 2001			
5,599' Ground Le								
23.	I I	PROPOSED CASING ANI	CEMENTING PROGRAM					
SIZE OF HOLE	GRADE SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH		OUANTITY OF CE	MENT		
12-1/4"	9-5/8" H-40	36 #/ft	+-350'		5 sx cl B cmt			
7-7/8"	4-1/2", J-55	10.5 #/ft	+-6850'	+- 68	0 sx cmt			
proced and ap	ofion is applied to toom ural review pursuant to opesi pursuant to 43 CF	43 CFR 3165.8 R 3165.4		COB)" "GEN	LING OPERATIONS AU RECT TO COMPLIANCE VERAL REQUIREMENTS	WITH ATTACHED		
Program.			d well as described	3456780	70 Family 38 M 8: 41	用[0] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1		
IN ABOVE SPACE DESCI deepen directionally, give 24. SIGNED ————————————————————————————————————	M Patto		give dataon presempediticivez true vertical depths. Give blowd	out prevente	DATE 6/20/			
· -	•							
PERMIT NO			APPROVAL DATE:	-				

Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon. CONDITIONS OF APPROVAL, IF ANY:

/s/ Lee Otteni

	FM	DATE
APPROVED BY	TITLE	DATE
AT THE PER OF	and the contract of the contra	

State of New Mexico

Revised February 21, 1994

State of New Mexico

Revised February 21, 1994

Instructions on back Form C-102 DISTRICT I Instructions on back P.O. Box 1980, Hobbs, N.M. 88241-1980 Submit to Appropriate District Office
State Lease — 4 Copies
8: Red Lease — 3 Copies DISTRICT II P.O. Drawer DO, Artesia, N.M. 88211-0719 OIL CONSERVATION DIVISION P.O. Box 2088 Santa Fe, NM 87504-2088 DISTRICT BI 1000 Rio Brazos Rd., Aztec, N.M. 87410 070 Farmington

AMENDED REPORT DISTRICT IV PO Box 2088, Santa Fe, NM 87504--2088 WELL LOCATION AND ACREAGE DEDICATION PLAT ³Pool Name ²Pool Code BASIN DIAKOTIA 71599 Well Number *Property Name 1M CHAVEZ GAS COM "C" • Elevation Operator Name 5599 CROSS TIMBERS OPERATING CO. 167067 10 Surface Location East/West line County Feet from the North/South line Feet from the Lot Idn SAN JUAN Township Range WEST Section 740' UL or lot na. SOUTH 1235 10-W 29-N 23 М ¹¹Bottom Hole Location If Different From Surface County East/West line North/South line Feet from the Feet from the Lot Idn Township Section UL or lot no. 15 Order No. " Consolidation Code 13 Joint or Infill 12 Dedicated Acres I 32*C* NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief Signature PHITTON JEFFREY Printed Name ENGINEEL DENZIME FD B.L.M. BC 1967 Date SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me RS. or under my supervision, and that the same is true and 01–39-2673.9'

FQ B.L.M. BC

1999

Cartificate Numb

LAT: 36'42'29"

S 86-20-23

3884.8' (M)

LONG: 107'51'39

102

555

740

FD B.L.M.

BC 1998

DISTRICT I P.O. Box 1980, Hobbs, N.M. 88241-1980 State of New Mexico
Livergy, Minerals & Natural Resources Department

Form C-102 Revised February 21, 1994 Instructions on back Submit to Appropriate District Office
State Lease — 4 Copies
Fee Lease — 3 Copies

DISTRICT II P.O. Drawer DD, Artesia, N.M. 88211-0719

OIL CONSERVATION DIVISION P.O. Box 2088 Santa Fe, NM 87504-2088

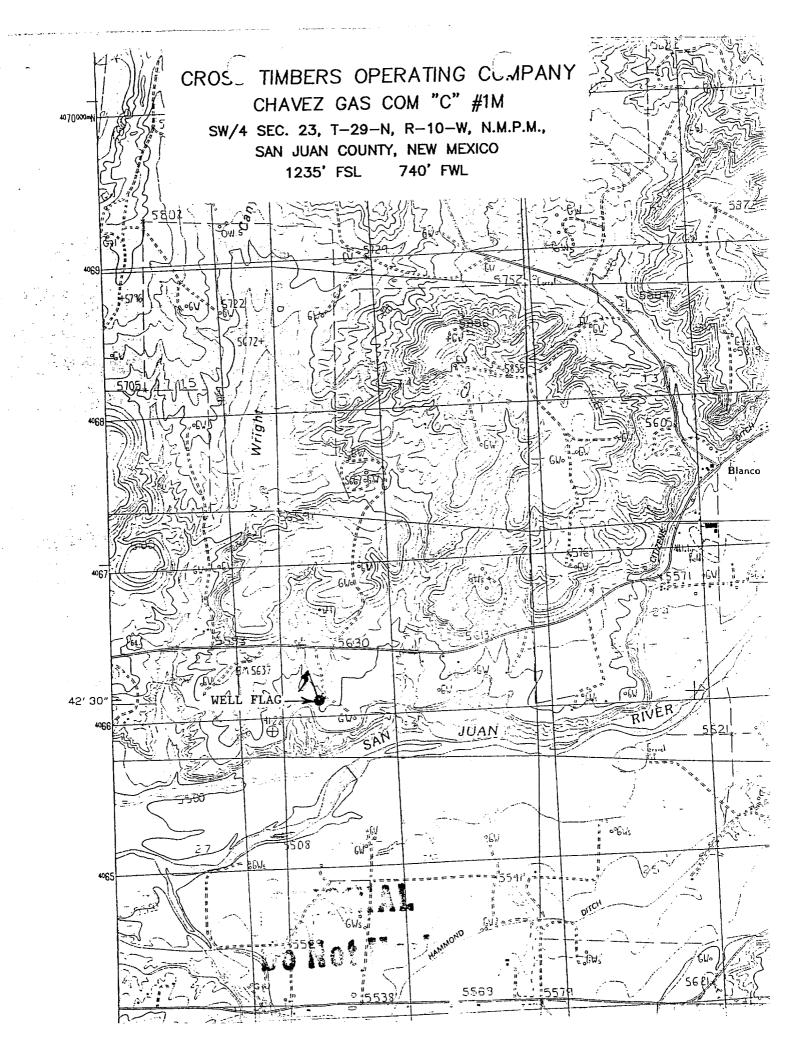
DISTRICT BI 1000 Rio Brazos Rd., Aztec, N.M. 87410

☐ AMENDED REPORT

DISTRICT IV PO Box 2088, Santa Fe, NM 87504-2088

Box 2088, Santa Fe, NM 87504-2	WELL LOCATION AND ACREAGE DEDICATED	N PLAT
30-045-307	² Pool Code	VM ESA U ERDE Well Number
*Property Code 2767/ *OGRID No.	*Property Name CHAVEZ GAS COM "C" *Operator Name CROSS TIMBERS OPERATING CO.	1 M • Elevation 5599°
167 067	10 Surface Location	

16706	7			CROS	S TIMBERS OF	ERAING CO.				
					¹⁰ Surface	Location				
	Seller	Township	Range	Lot John	Feet from the	North/South line	1	om the	East/West line WEST	SAN JUAN
PL or lot no.	Section 23	29-N	10-W		1235'	SOUTH		40'	MESI	0.1. 00.1
M	25		<u> </u>	om Hole	Location	f Different Fr	om Si	urface		
	·	T = 1.5.		Lot Idn	Feet from the	North/South line	Feet f	rom the	East/West line	County
AL or lot no.	Section .	Township .	Range						<u> </u>	_1
Dedicated Acres	<u> </u>	113	Joint or Infill	L	" Consolidation Co	de	15 Order	r Na		
	5/	i	·							
32 <i>0</i>	7.					ON UNTIL ALL EEN APPROVE	INTER	RESTS H	HAVE BEEN C	ONSOLIDATE
NO ALLOV	VABLE \	MLL BE	ASSIGNE	D TO TH	IS COMPLEI	EEN APPROVE	D BY	THE DI	VISION	
	•	OR A	NON-ST	ANDARD	UNII HAS D					
						,	1	17	OPERATOR C	ER IIFICA IION
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FD B.L.M.	BC					1		Title	5-11-1) [
1967		}		0.7		<u> </u>		Date		
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N 01-39- 2673.9°	102	LAT: LON	36'42'29' G: 107'51	39 W.				⊣	Drofess	mod Servetor
01–39-	102	LAT: LON	36'42'29 G: 107'51	. N. W.				⊣	Drofess	mal Superior
N 01-39- 2673.9'	102		36'42'29 G: 107'51	39 W.				⊣	Drofess	mal Superior
-8673.9.	T	LAT: LON	36'42'29 G: 107'51	39 W.				⊣	Drofess	mal Superior
-8673.9.	T		36'42'29 G: 107'51	39 W.				⊣	OV CONTRACTOR	To Signature
N 01-39- 2673.9*	T	555'	36'42'29 G: 107'51 6-20-23 884.8' (M)		FD B.L.M. B0			Signature	Drofess	To September



CROSS TIMBERS OPERATING COMPANY

"Chavez Gas Com "C" #1M" **APD Data** June 20, 2001

Location: Sec 23, T29N, R10W

County: San Juan

State: New Mexico

GREATEST PROJECTED TD: 6,850'

OBJECTIVE: Basin Dakota / Blanco Mesaverde

APPROX GR ELEV: 5,599'

Est KB ELEV: <u>5,611'(12' AGL)</u>

1. MUD PROGRAM:

INTERVAL	0' to 350'	350' to 4,500'	4,500' to TD
HOLE SIZE	12-1/4"	7-7/8"	7-7/8"
MUD TYPE	FW/Spud Mud	FW/Polymer	PolyPlus
WEIGHT	8.6-9.0	8.4-8.8	8.6-9.0
VISCOSITY	28-32	28-32	45-60
WATER LOSS	NC NC	NC	8-10

Remarks: Use fibrous materials as needed to control seepage and lost circulation. Pump high viscosity sweeps as needed for hole cleaning. Raise viscosity at TD for logging. Reduce viscosity after logging for cementing purposes.

CASING PROGRAM:

9-5/8" casing to be set at \pm 350' in 8.8 ppg mud Surface Casing:

Burrace	Jasiii 5.		, 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0									ŧ
					Coll	Burst						l
1					Rating	Rating	Jt Str	ID	Drift	SF	SF	SF
Interval	Length	Wt	Gr	Cplg	(psi)	(psi)	(M-lbs)	(in)	(in)	Coll_	Burst	Ten
Interval			H-40	STC	1740	2560	294	8.921	8.765	7.32	7.95	29.39
0'-350'	350'	36#	п-40	SIC	1770	2300			<u> </u>			

4-1/2" casing to be set at TD in 9.0 ppg mud. Production Casing:

Productio	n Casing:	7-1	/ <u>Z Çasıı</u>	ig to be	500 40 12	ш э.с рр						
					Coll	Burst						
					Rating	Rating	Jt Str	${ m ID}$	Drift	SF	SF	SF
Intom/ol	Length	Wt	Gr	Cplg	(psi)	(psi)	(M-lbs)	(in)	(in)	Coll	Burst	Ten
Interval					<u> </u>		\	4.052	3.875	1.66	1 33	2.44
0'-TD	6,850'	10.5#	J-55	STC	4010	4790	132	4.032	3.673	1.00	1.55	2

WELLHEAD:

- A. Casing Head: Larkin Fig 92 (or equivalent), 9" nominal, 2,000 psig WP (4,000 psig test) with 9-5/8" 8rnd thread on bottom and 11-3/4" 8rnd thread on top.
- B. Tubing Head: Larkin Fig 612 (or equivalent), 6.456" nominal, 2,000 psig WP (4,000 psig test), 4-1/2" 8rnd female thread on bottom, 8-5/8" 8rnd thread on top.

4. <u>CEMENT PROGRAM (Slurry design may change slightly, but the plan is to circulate cement to surface on both casing strings):</u>

A. Surface:

9-5/8", 36#, H-40, STC casing to be set at \pm 350'.

<u>Lead:</u> 185 sx of Class "B" cement (or equivalent) containing 2% CaCl₂, ½ pps celloflake, mixed at 15.6 ppg, 1.18 ft³/sk, & 5.20 gal wtr/sk.

Total slurry volume is 220 ft³, 100% excess of calculated annular volume to 350'.

B. Production:

4-1/2", 10.5#, J-55, STC casing to be set at $\pm 6,850$ '.

480 sx of Lite-Crete cement (proprietary blend) containing ¼ pps celloflake mixed at 9.5 ppg, 2.52 ft³/sk, 11.50 gal wtr/sx followed by 200 sx 50/50 class "G" with poz, 6 % gel, 1/4#/sx cellofalke, 0.2% dispersant & 0.2% fluid loss additive mixed at 13.0 ppg, 1.71 cuft/sx, 9.85 gal/sx.

Total estimated slurry volume for the 4-1/2" production casing is 1,550 ft³ (no excess).

Note: The slurry design may change slightly based upon actual conditions. Final cement volumes will be determined for the caliper logs plus 20%. It will be attempted to circulate cement to the surface.

5. LOGGING PROGRAM:

- A. Mud Logger: The mud logger will log from 3,300' to TD (6,850').
- B. Open Hole Logs as follows: Run Array Induction/SFL/GR/SP fr/TD to the bottom of the surface csg. Run Neutron/Lithodensity/Pe/GR/Cal from TD to 2,800'. Formation Micro Imager (FMI) will be run on most wells from TD to $\pm 6,300$ '.

6. FORMATION TOPS:

Est. KB Elevation: 5,599'

Subsea Depth	Well Depth				
+4453'	1158'				
+4016'	1595'				
+3699'	1912'				
+3674'	1937'				
+3446'	2165'				
	+4453' +4016' +3699' +3674'				

