District I 1625 N. French Dr., Hobbs, NM 88240 District II 811 South First, Artesia, NM 88210 District III 1000 Rio Brazos Road, Aztec, NM 87410 District IV

State of New Mexico Energy Minerals and Natural Resources

Revised March 17, 1999 Submit to appropriate District Office

Oil Conservation Division 2040 South Pacheco Santa Fe, NM 87505

State Lease - 6 Copies Fee Lease - 5 Copies

AMENDED	REPORT

Form C-101

2040 South Pa	checo, San	ta Fe, NM 875	505		Santa Fe, N	M 8750)5		_		sease s copies		
APPLI	CATIO	N FOR I	PERMIT TO	DRILL.	RE-ENTE	R. DEI	EPEN.	PLUGRA	CK O		DED REPORT		
			Operator Name and		TEL DIVIE			Ledbi		Number	ALONE		
	Con	oco Inc., 10 De	esta Drive, Suite 64	9W. Midland. T	°X 79705			005073	3 ADI N	Number			
								30-02			•		
					roperty Name State "25" A					⁶ Well N	0.		
					State 25- Ft					5	· · · · · · · · · · · · · · · · · · ·		
	,	,		⁷ Sur	face Locati	on							
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/S	outh line	Feet from the	East/	West line	County		
Р	25	208	37E	<u>.</u>	660'		outh	760'		East	Lea		
		8 1	Proposed Bot	tom Hole	Location If	Differe	nt Fro	m Surface					
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/S	outh line	Feet from the	East/	West line	County		
	 -	9 Pr	roposed Pool 1	· · · · · · · · · · · · · · · · · · ·		-		10 Pro	oposed Poo	 12	 		
			h Hardy Strawn										
TI Work	Type Code		12 Well Type Code	 -	3 Cable/Rotary		1.	Lease Type Code	,	15 Ground	Level Elevation		
]	N		_	R			S S		3507'				
	lultiple VO		Proposed Depth 7920'		18 Formation Strawn	Spud Da							
			²¹ Pro	posed Cas	ing and Cer	nent Pi	rogram			7-0			
Hole S	ize	Casii	ng Size	Casing weight		Setting D			Cement	Es	stimated TOC		
12-1/	4"	J-55,	8-5/8"	24#		1500'		657			Surface		
7-7/8	3"	J-55,	5-1/2"	17#		7920	,	985			Surface		
									-				
22 Describe	the propos	ed program. I	f this application is	s to DEEPEN o	r PLUG BACK,	give the d	ata on the	present product	tive zone ar	nd proposed	new productive		
			ention program, if a					F		.u proposed	new productive		
			cation Plat (C-102)	•		,							
	l Well Plan		,										
3. Cementir	ng Program					Permit	Expir	es 1 Year	From	Approv	14		
4. BOP/Ch	oke Diagra	m						ess Drillir					
²³ I hereby cert	tify that the	information a	given above is true	and complete to	o the		OIL C	ONSERVA	TION I	DIVISIO)N		
best of my kno	wledge and	^	Λ		<u> </u>								
Signature:	y Chr	ny	nson		Аррг	oved by:		···· <u>···</u> ····	·		·		
Printed name:	yo Ann Jol	nnson U			Title						*)		
Title: Sr. Prop	erty Analy	st			Appr	oval Date	D 1	² 2000	Expiratio	n Date:			
Date: 9/7/00			Phone: 915/686	6-5515	Conc	itions of A	∐ .mnroval:	Conditions of Approval:					

Attached

DISTRICT I 1006 N. Franck Dr., McCou, Mr. 00545 DISTRICT II 511 South First, Artesia, NM 58610

State of New Mexico

Form C-102 ed March 17, 1900

Submit to Appropriate District Office

State Lease - 4 Copies

DISTRICT III 1000 His Brance Rd., Astes, NM 87410

DISTRICT IV

2046 South Pacheco, South Fo, 104 87505

OIL CONSERVATION DIVISION

2040 South Pacheco Santa Fe, New Mexico 87505

☐ AMENDED REPORT

For Lease - 5 Copies

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number	Pool Code	Pool Name				
30-DAS-35/5	96893	North Hardy Strawn				
Property Code		Property Name				
25385	STAT	E "25"	5			
OGED No.	()per	rator Name	Elevation			
005073	CONC	DCO INC.	3505'			

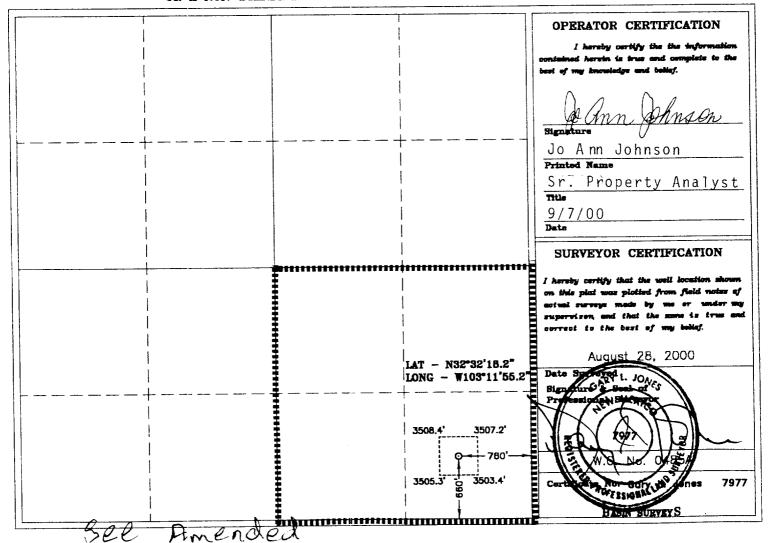
Surface Location

[UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	Rast/West line	County
	Р	25	20 S	37 E		760	EAST	660	SOUTH	LEA

Bottom Hole Location If Different From Surface

UL or lot No.	Section.	Township	Range	Lot Idn	Feet from the	North/South lins	Feet from the	East/West lins	County
Dedicated Acres	Joint or	r Infill	Consolidation (Cods Or	der No.		l	L	<u> </u>
160									

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



PROPOSED "'ELL PLAN OUTLINE

WELL NAME LOCATION

State 25 'A' #5 660' FSL & 760' FEL, Sec 25, T205 & R37E (prior to staking)

Ground Level : Kelly Bushing:

3,507' (est) 11' AGL

FORMATION TYPE OF FORMATION EVALUATION FORM. Mud TOPS Depth DRILLING CASING HOLE FRAC PRES. Weight Days MO PROBLEMS SIZE PROGRAM GRAD GRAD Possible Hole Enlargement 12-1/4 Less than 8.3 8.4 - 9.5 & Sloughing Fresh 1000 8-5/8", 24#, J-55 Top Sait @ 1,400' ST&C @ 1,500° Circulate Cement Washouts in Salt Section 7-7/8" Brine 2000 Less than 8.4 Base Salt @ 2,550° Mud Loggers @ 2,600° Yates 2,690* H2S monitor equipment on @ 2,600° 7 Rivers 2,940 3000 Queen 3.510' Penrose 3,640' Grayburg 3,790' San Andres 4,020' 4000 Mud loss in San Andres is possible. None experienced an offset well. 5000 7 Giorietta 5,270° Possible differential sticking thru Glorietta Blinebry 5,840' 6000 Tubb 6,3401 10 Drinkard 6.690* First Lag Run: 10 ppg 7000 Abo 6,950 GR-CAL-DLL-MLL-SGR-SONIC Starch Gel FDC-CNL-PE : TD to 2000' Pull GR-CNL-Cal to Surf SGR interval to be chosen Starch up prior to drilling into Strawn. Second Log Run: 30 rotary sidewall cores Strawn @ 7,590* 5-1/2*, 17#, J-55 LT&C set @ 7,920' Offset data from: Possible Third Run: Circulate cement 17 State 25 'A' #3 FMI imaging log either single or 2 TD @ 7,920' stage

DATE	30-Aug-00	

Joe Huck, Geologist

APPROVED

David Delac, Drilling Engineer

Joe Miller, Reservoir Engineer



Conoco State 25 'A' No. 5

Lea County, New Mexico August 28, 2000

Well Recommendation

Prepared for:

Mr. David Delao Drilling Engineer

Prepared by:

Rocky Chambers Region Engineer Midland, Texas

Bus Phone: 915/683-2781 Mobile: 915/557-1239 Pager: 915/498-1605



PowerVision*

Service Point:

Hobbs

Bus Phone: (505) 392-5556 Fax: (505) 392-7307

Service Representatives:

Wayne Davis Account Manager

Bus Phone: (915) 683-2781 Fax: (915) 683-1443

Well Name: State 25 'A' No. 5
Job Description: 8-5/8" Surface
Date: August 28, 2000



Proposal No: 180254609A

WELL DATA

ANNULAR GEOMETRY

ANNULAR I.D.	DEPTH(ft)				
(in)	MEASURED	TRUE VERTICAL			
12.250 HOLE	1,500	1,500			

SUSPENDED PIPES

DIAMET	ER (in)	WEIGHT	DEF	PTH(ft)
O.D.	I.D.	(lbs/ft)	MEASURED	TRUE VERTICAL
8.625	8.097	24	1,500	1,500

Float Collar set @ 1,460 ft Mud Density 8.40 ppg Est. Static Temp. 89 $^{\circ}$ F Est. Circ. Temp. 85 $^{\circ}$ F

VOLUME CALCULATIONS

1,200 ft	X	0.4127 cf/ft	with	100 % excess	=	990.4 cf
300 ft	X	0.4127 cf/ft	with	100 % excess	=	247.9 cf
40 ft	~	0.3576 of/ft	ith	0.0%		440

 $40 \,\text{ft}$ \times 0.3576 cf/ft with 0 % excess = 14.3 cf (inside pipe)

TOTAL SLURRY VOLUME = 1252.6 cf = 223 bbls

Well Name:

State 25 'A' No. Job Description: 8-5/8" Surface

Date:

August 28, 2000



Proposal No: 180254609A

FLUID SPECIFICATIONS

FLUID	VOLUME CU-FT	ı	VOLUME FACTOR	AMOUNT AND TYPE OF CEMENT
Lead Slurry	990	1	2.15	= 462 sacks Class C Cement + 0.25 lbs/sack Cello Flake + 0.005 gps FP-6L + 2% bwoc Sodium Metasilicate + 109.4% Fresh Water
Tail Slurry	262	1	1.34	= 195 sacks Class C Cement + 2% bwoc Calcium Chloride + 0.005 gps FP-6L + 56.3% Fresh Water
Displacement CEMENT PROPERTIE	S			93.0 bbls Water @ 8.4 ppg
				URRY SLURRY NO. 1 NO. 2

	SLURRY NO. 1	SLURRY NO. 2
Slurry Weight (ppg)	12.40	14.80
Slurry Yield (cf/sack)	2.15	1.34
Amount of Mix Water (gps)	12.33	6.35
Amount of Mix Fluid (gps)	12.33	6.35
Estimated Pumping Time - 70 BC (HH:MM)	6:25	2:20
Free Water (mls) @ 80 ° F @ 90 ° angle	0.0	0.0
COMPRESSIVE STRENGTH		
12 hrs @ 89 ° F (psi)	124	1200
24 hrs @ 89 ° F (psi)	250	2000

Well Name: State 25 'A' No. 5
Job Description: 5-1/2" Production String

Date:

August 28, 2000



Proposal No: 180254609A

WELL DATA

ANNULAR GEOMETRY

ANNULAR I.D.	DEPTH(ft)				
(in)	MEASURED	TRUE VERTICAL			
8.C97 CASING	1,500	1,500			
7.875 HOLE	8,000	8,000			

SUSPENDED PIPES

DIAMET	DIAMETER (in)		DEPTH(ft)			
O.D.	I.D.	(lbs/ft)	MEASURED	TRUE VERTICAL		
5.500	4.892	17	8,000	8,000		

Float Collar set @	7,960 ft
Mud Density	9.20 ppg
Est. Static Temp.	128 ° F
Est. Circ. Temp.	122 ° F

VOLUME CALCULATIONS

1,500 ft	X	0.1926 cf/ft	with	0 % excess	=	288.9 cf
4,100 ft	×	0.1733 cf/ft	with	50 % excess	=	1065.5 cf
2,400 ft	X	0.1733 cf/ft	with	50 % excess	=	623.7 cf
40 ft	X	0.1305 cf/ft	with	0 % excess	=	5.2 cf (inside pipe)

TOTAL SLURRY VOLUME = 1983.3 cf

= 354 bbls

Well Name: State 25 'A' No.

Job Description: 5-1/2" Production String

Date:

August 28, 2000



Proposal No: 180254609A

FLUID SPECIFICATIONS

Pre-flush

1,500.0 gals Mud Clean I @ 8.4 ppg

FLUID	VOLUME CU-FT	-	VOLUME FACTOR	AMOUNT AND TYPE OF CEMENT
Lead Slurry	1354	1	2.41	= 563 sacks (50:50) Poz (Fly Ash):Class C Cement + 5% bwow Sodium Chloride + 0.25 lbs/sack Cello Flake + 0.005 gps FP-6L + 10% bwoc Bentonite + 136.9% Fresh Water
Tail Slurry	629	1	1,49	= 422 sacks (15:61:11) Poz (Fly Ash):Class C Cement:CSE + 5% bwow Sodium Chloride + 1% bwoc FL-62 + 0.005 gps FP-6L + 70% Fresh Water

Displacement

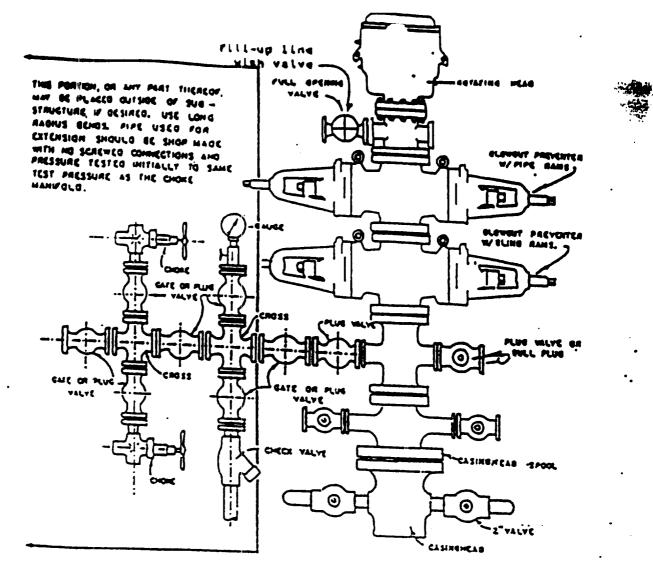
185.1 bbls Water @ 8.4 ppg

CEMENT PROPERTIES

	SLURRY NO. 1	SLURRY NO. 2
Slurry Weight (ppg)	11.85	13.60
Slurry Yield (cf/sack)	2.41	1.49
Amount of Mix Water (gps)	13.79	7.31
Amount of Mix Fluid (gps)	13.79	7.31
Estimated Pumping Time - 70 BC (HH:MM)	2:58	2:31
Free Water (mls) @ 80 ° F @ 90 ° angle Fluid Loss (cc/30min) at 1000 psi and 80 ° F	1.0	0.0
COMPRESSIVE STRENGTH	792.0	62.0
12 hrs @ 128 ° F (psi) 24 hrs @ 128 ° F (psi)	175 350	1013 1877

RHEOLOGIES

FLUID		TEMP	600	300	_200	100	6	3
Lead Slurry	@	80 ° F	104	101	96		39	31
Tail Slurry	@	80 ° F	210	150	110	6 0	7	4

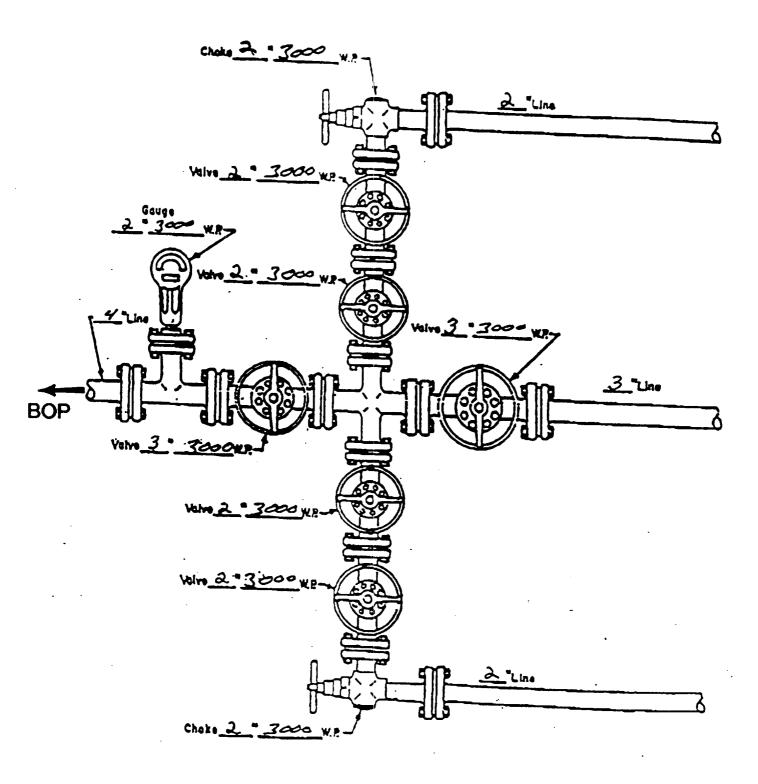


BLOWOUT PREVENTER HOOKUP

Drilling contractors used in the San Juan Basing supply 3000 psi equipment, but cannot provide annular preventors because of substructure limitations. Maximum anticipated surface pressures for this well will not exceed the working pressure of the proposed BOP Please see the attached BOP diagram details 2000 psi equipment according to Onshore Order No. 2 even though the equipment will test to 3000 psi. The 2000 psi system allows deletion of the annular preventor and fulfills your requirements (note diagram No. 1). In addition, the following equipment will comprise the 2000 psi system:

- Two rams with one blind and one pipe ram. 2.
- Kill line (2 inch maximum). 3.
- One kill line valve.
- One choke line valve. 4.
- 5. Two chokes (reference diagram No. 1). 6.
- Upper kelly cock valve with handle.
- 7. Safety valve and subs to fit all drill strings in use.
- 8. Two-inch minimum choke line.
- Pressure gauge on choke manifold. 9.
- 10. Fill-up line above the upper most preventor.
- Rotating head.

CHOKE MANIFOLD DIAGRAM



MANIFOLD

区 Manuel

☐ Hydraulic

ELF.

ABOVE DATE DOES NOT CONFIDENTIAL LOCAL WHEN WILL EX WI