District I
PO Box 1980, Hobbs, NM 88241-1980
District II
PO Drawer DD, Artesia, NM 88211-0719
District III
1000 Rio Brazos Rd., Aziec, NM 87410
District IV
PO Box 2088, Santa Fe, NM 87504-2088

State of New Mexico Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION PO Box 2088 Santa Fe, NM 87504-2088 Form C-101 Revised February 10, 1994 Instructions on back

Submit to Appropriate District Office
State Lease - 6 Copies

Fee Lease - 5 Copies

X AMENDED REPORT

APPLICA	TION I	FOR I	PERMIT 1	ro dri	LL. RE-E	NTER. D	EEPE	EN. P	LUGB	ACK.	OR AT	DD A ZONE
	-				me and Addres					1		RID Number
	Mitchell Energy Corporation 015025											
D 0 P 4000								PI Number				
			The Wood	lands,	Texas 7	77387-400	0					15-32012
=	rty Code					Property Nam	e -					' Well No.
133	329				Sc	harbauer	-4-					3
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			Proposed					nt Fro	m Sur	face		
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zone. Describe	the blowout	preventi	on program, if	any. Use ad	ditional sheets	if necessary.			- ,			AREA
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Signature:		eon	ar M	Julle		Approved by:			Orio. S	Signed b)¥	
Printed name:	Geoi	ge Mi	ullen			Title:	<u>. </u>		Paul	KRUL		
Title:			fairs Spe	cialic	_	Approval Date:	HIM	29		logalia Expiration	Date:	
Date:		. J EL	Phone:			Conditions of A			1334			
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WEST TO

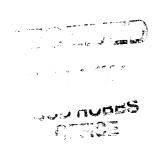
OCU NUSCES CARROLLOS CARRO



Well Plan

ANASAZI / SCHARBAUER AREA

Lea County. New Mexico



WELL DATA

Company: Mitchell Energy Corporation

Field: West Teas

Objective: Yates

Total Depth: 3600'

TABLE OF CONTENTS

Section Title:	Section No.				
Well Data	1.0				
Drilling Prognosis	2.0				
Drilling Program	3.0				
Mud Program	4.0				
Casing String Design	5.0				
Cementing Program	6.0				
BOP Diagrams	7.0				



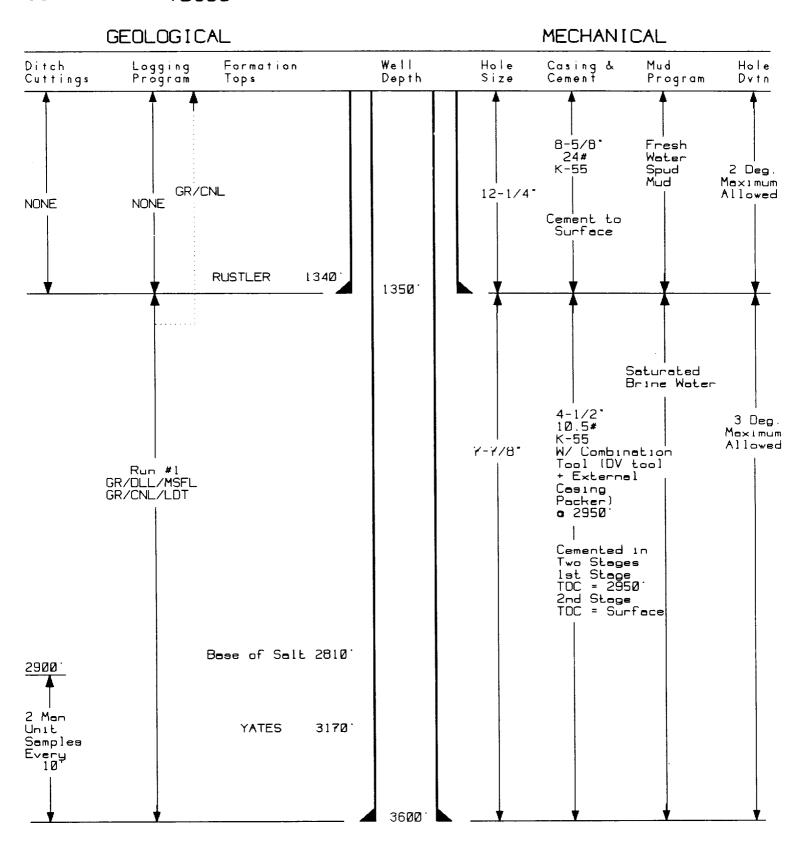
DRILLING PROGNOSIS

FIELD: West Teas

WELL: Anasazi/Scharbauer Area

OBJECTIVE: Yates

ELEVATION:



CONTROL OFFICE

DRILLING PROGRAM

- 1.0 Set conductor at +/- 40' with rat hole machine.
- 2.0 Move in drilling rig and rig up same.
- 3.0 Drill 12-1/4" hole to +/- 1350'.
- 4.0 At 1350' circulate and condition hole for casing.
- 5.0 Run 8-5/8" casing as shown on the appropriate attachment, "Casing String Design".
- 5.1 Once casing string is made up, circulate a minimum of one entire circulation while reciprocating casing.
- 6.0 Cement 8-5/8" casing as per attached cement program.
- 7.0 Cut off conductor and 8-5/8" casing and install 11" x 3MWP head as shown on attachment.
- 8.0 Nipple up 11" x 3MWP BOP stack as shown on attachment.
- 9.0 Test annular BOP to 1000 psi. Test rams, choke manifold and all associated equipment to 1000 psi.
- 10.0 Drill 7-7/8" hole to +/- 3600'.
 - 10.1 Prior to drilling the float collar, pressure test the casing to 600 psi by closing the annular preventer and pressuring up to 600psi. Hold this pressure for a minimum of 30 minutes and record any pressure fluctuations. Report the results of this test on the morning report.
- 11.0 At 3600', condition hole for logs and log well as per attached "Geological Prognosis".
- 12.0 Following logging operations, trip back in hole and circulate a minimum of one complete circulation. Have the mud engineer perform a full check during this circulation and verify mud is in condition to run casing.
- 13.0 Once the order has been given to run pipe and the above conditions have been met, begin the trip out of the hole laying down the drill string to run casing.

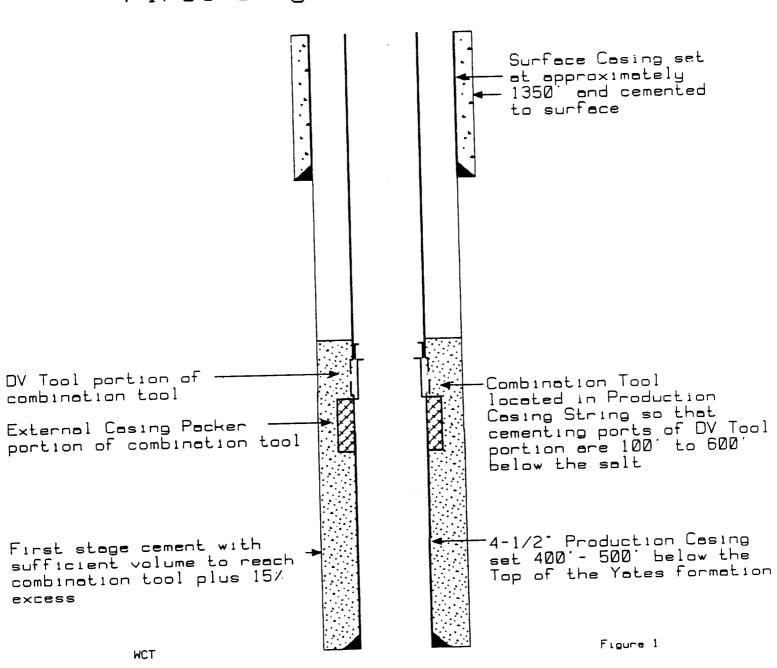
- 14.0 Make up and run 4 1/2" casing as per the following:
- A. Clean exposed threads on the guide shoe, first joint of 4 1/2" casing, float collar, and second joint of casing.
 - B. Apply thread lock to the above listed connections prior to make-up.
 - C. The bottom assembly of the casing assembly must be made up as follows with the first listed being the first in the hole:
 - 1. Guide shoe
 - 2. First joint of 4 1/2" casing
 - 3. Float collar
 - 4. 4 1/2" casing back to setting depth of 2950' (140' below the salt).
 - 5. Combination Tool (DV Tool with External Casing Packer)
 - 6. 4-1/2" casing back to surface.
 - D. Install centralizers as follows on the 4-1/2" casing:
 - 1. 10' above the guide shoe by means of a stop collar.
 - 2. Around the first coupling above the float collar.
 - 3. Every third coupling back to the combination tool.
 - 4. Around the coupling immediately below the combination tool.
 - 5. Around the coupling immediately above the combination tool.
 - 6. Every third coupling back to surface.
- 15. With casing on bottom, circulate mud a minimum of one circulation. Monitor returns to ensure hole is "clean".
- 16. Cement the 4 1/2" casing string as follows:
 - A. Reciprocate the casing during the <u>first stage</u> circulation and cementation.
 - B. Once the first stage cement is in place (Figure 1), drop the **EXTERNAL CASING PACKER / DV TOOL ACTUATION DEVICE** (a.k.a. Ball, Bomb, Plug, Dart (Figure 2)).
 - C. With guidance from the tool manufacturers representative, set the external casing packer and open the DV tool.
 - D. Circulate one complete circulation through the DV tool to ensure any residual cement from the first stage is removed from the annulus above the combination tool.
 - E. Pump the second stage cement into position followed by the **SECOND STAGE FOLLOWING PLUG.** Displace cement and plug with drilling fluid. The **SECOND STAGE FOLLOWING PLUG** will close the DV tool ports when the cement is in place (Figure 3).

- 17. Set the slips on the 4 1/2" casing in the as cemented condition.
- 18. Install the "Bell Nipple" tubing head, and associated equipment comprising the B" section.
- 19. Once all contractual obligations are met, release the rig.
- 20. !!!!!!!!!! -- NET THE PITS -- !!!!!!!!!!!!!

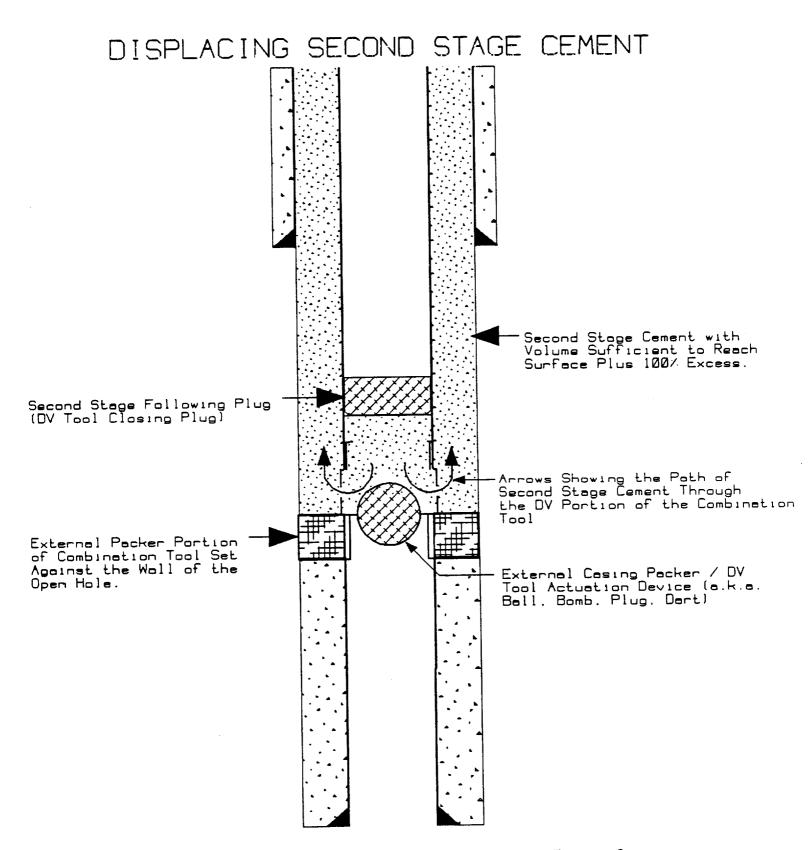


Wellbore Schematic

First Stage Cement In Place

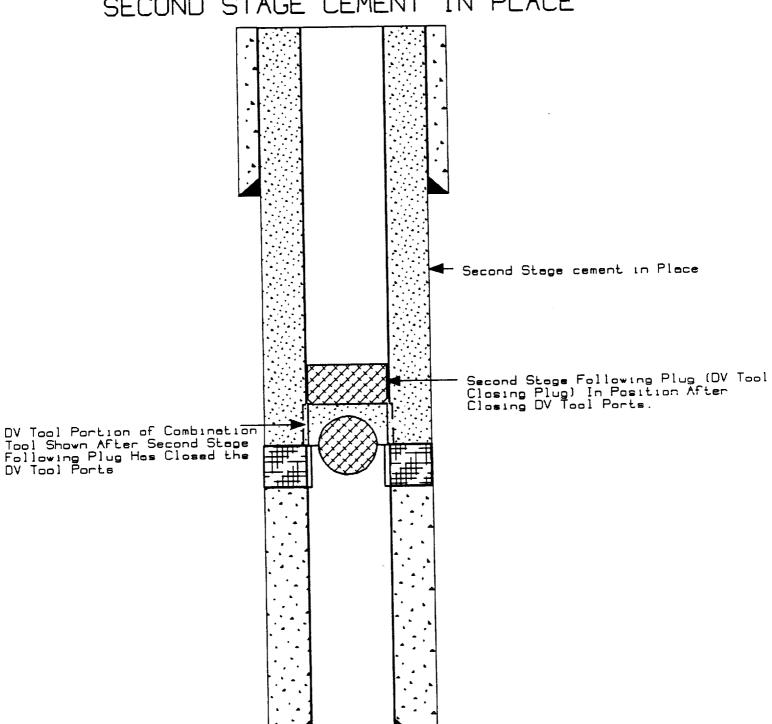


Wellbore Schematic



Wellbore Schematic

SECOND STAGE CEMENT IN PLACE



WCT

Figure 3

MUD PROGRAM

Depth Interval (feet)	Density PPG)	Funnel Viscosity (Seconds)	Type Mud	Filtrate (cc)
0-1350'	8.5	40-45	Spud Mud	NC
1350'-3600'	10.0	28	Saturated Brine Water	NC

CASING STRING DESIGN

DEPTH:

1350'

TYPE:

Surface

SIZE:

8-5/8"

MUD WEIGHT:

8.5

Descrip	otion	Interval	Length Per Section	Weig Per Sect		Cumm. Weight	Min. Strength	Tens. S.F.
24#,ST	&C,K-55	0-1350'	1350'	3240	0#	32400#	263,000	8.12
Collaps Force	se *Resist	S.F.	Burst Force	Resist.	S. <i>F</i> .	Minimum Torque	Optimum Torque	Maximum Torque
596	1370	2.29	624	2950	4.72	1970	2630	3290

^{*} Tension effect on collapse resistance included

Procedure:

- 1. Clean threads on shoe joint, float collar, and guide shoe to bare shiny metal. Apply Thread Lock to connections prior to make-up.
- 2. The casing assembly will be made up as follows:

Note: Best-o-Life 2000 will be applied to all connections not receiving Thread Lock.

- a. Guide shoe
- b. Shoe Joint
- c. Float collar
- d. Remainder of casing string
- 3. Centralizers should be applied 10 feet above the guide shoe by means of a stop collar, around the first coupling above the float collar, and every fourth coupling back to surface.

CASING STRING DESIGN

DEPTH:

3600'

TYPE:

Production

SIZE:

4-1/2"

MUD WEIGHT:

10.0

Descrip	otion	interval	Length Per Section	Weight Per Section	Cumr Weigi		gth	Tens. S.F.	
10.5#,L	T&C,K-55	0-3600'	3600'	37,800#	37,80	0# 146K		3.86	
Collaps Force	se Resist	S.F.	Burst Force	Resist.	S.F.	Minimum Torque	Optim Torqu		Maximum Torque
1872	4010	2.14	1740	4790	2.75	1100	1460		1825

Procedure:

Make up and run 4 1/2" casing as per the following:

- A. Clean exposed threads on the guide shoe, first joint of 4 1/2" casing, float collar, and second joint of casing. Apply Thread Lock to these connections prior to make-up.
 - B. The bottom assembly of the casing assembly must be made up as follows with the first listed being the first in the hole:

Note: Seal Lube will be applied to all conections not receiving Thread Lock.

- 1. Guide shoe
- 2. First joint of 4 1/2" casing
- 3. Float collar
- 4. 4 1/2" casing back to setting depth of 2950' (140' below the salt).
- 5. Combination Tool (DV Tool with External Casing Packer)
- 6. 4-1/2" casing back to surface.
- C. Install centralizers as follows on the 4-1/2" casing:
 - 1. 10' above the guide shoe by means of a stop collar.
 - 2. Around the first coupling above the float collar.
 - 3. Every third coupling back to the combination tool.
 - 4. Around the coupling immediately below the combination tool.
 - 5. Around the coupling immediately above the combination tool.
 - 6. Every third coupling back to surface. Section 5 Page 2 of 2

Cementing Program

8-5/8" Surface Casing

Depth:

1350'

Casing Size:

8-5/8"

Hole Size:

12.25"

Calculated Cement Fill: 1350'

Excess Calculated:

100%

Cementing Company: Halliburton

Cement Recommendation:

Spacer: 20 Bbls Fresh Water

Slurry: 860 sacks Premium Plus + 2% CaCl2

Slurry Weight:

14.8 ppg

Slurry Yield:

1.34 cu.ft./sack

Procedure:

- 1. Utilize the two-plug system.
- 2. Wait on cement a minimum of 8 hours.

NOTE: VOLUME ADJUSTMENTS BASED ON THE CALIPER WILL BE UNATTAINABLE. THE STANDARD PRACTICE FOR SURFACE CASING CEMENT VOLUME DETERMINATION HAS BEEN CALCULATED (GAUGE HOLE PLUS 100% EXCESS). NO FURTHER CALCULATIONS WILL BE MADE FOR CEMENT VOLUME.



Cementing Program

4-1/2" Production Casing

Depth:

3600'

Casing Size:

4-1/2"

Hole Size:

7-7/8"

Calculated Cement Fill:

3600' (In Two Stages)

Excess Calculated

1st Stage:

15% over caliper

2nd Stage:

100%

Cementing Company:

Halliburton

Cement Recommendation:

1st Stage:

Slurry: 150 sacks Premium Plus + 2.5 #/sk Salt (Accelerator) + 0.4% HALAD-322 (Fluid Loss)

Slurry Weight:

14.8 ppg

Slurry Yield:

1.36 cu.ft./sack

2nd Stage:

Lead Slurry: 720 sacks Premium Plus + 1% CaCl2 + 15 #/sk Salt

Slurry Weight:

14.0 ppg

Slurry Yield:

1.75 cu.ft./sack

Tail Slurry:

80 sacks Premium Plus

Slurry Weight:

14.8 ppg

Slurry Yield:

1.32 cu.ft./sack

Procedure:

Cement the 4 1/2" casing string as follows:

A. Reciprocate the casing during the <u>first stage</u> circulation and cementation.

Section 6 - Page 2 of 3



Cementing Program

4-1/2" Production Casing Continued

- B. Once the first stage cement is in place (Figure 1), drop the **EXTERNAL CASING PACKER / DV TOOL ACTUATION DEVICE** (a.k.a. Ball, Bomb, Plug, Dart).
 - C. With guidance from the tool manufacturers representative, set the external casing packer and open the DV tool.
 - D. Circulate one complete circulation through the DV tool to ensure any residual cement from the first stage is removed from the annulus above the combination tool.
- E. Pump the second stage cement into position followed by the **SECOND STAGE FOLLOWING PLUG.** Displace cement and plug with drilling fluid. The **SECOND STAGE FOLLOWING PLUG** will close the DV tool ports when the cement is in place

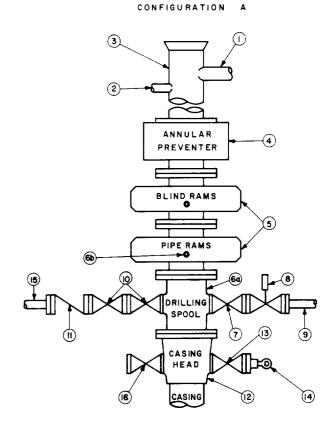
MINIMUM BLOWOUT PREVENTER REQUIREMENTS

3,000 psi Working Pressure

3 MWP

STACK REQUIREMENTS

No.	Item		Min. I.D.	Min. Nominal
1	Flowline			
2	Fill up line			2″
3	Drilling nipple			
4	Annular preventer			
5	Two single or one dual hy operated rams	draulically		
6a	Drilling spool with 2" min. 3" min choke line outlets			
6b	2" min. kill line and 3" min outlets in ram. (Alternate t			
7	Valve	Gate □ Plug □	3-1/8"	
8	Gate valve—power opera	ted	3-1/8"	
9	Line to choke manifold			3″
10	Valves	Gate □ Plug □	2-1/16"	
11	Check valve		2-1/16"	
12	Casing head			
13	Valve	Gate □ Plug □	1-13/16"	
14	Pressure gauge with need	die valve		
15	Kill line to rig mud pump r			2"



	OPTIONAL						
16	Flanged valve	1-13/16"					

CONTRACTOR'S OPTION TO FURNISH:

- All equipment and connections above bradenhead or casinghead. Working pressure of preventers to be 3,000 psi, minimum.
- Automatic accumulator (80 gallon, minimum) capable of closing BOP in 30 seconds or less and, holding them closed against full rated working pressure.
- 3.BOP controls, to be located near drillers position.
- 4. Kelly equipped with Kelly cock.
- Inside blowout prevventer or its equivalent on derrick floor at all times with proper threads to fit pipe being used.
- 6.Kelly saver-sub equipped with rubber casing protector at all times.
- 7.Plug type blowout preventer tester.
- 8.Extra set pipe rams to fit drill pipe in use on location at all times.
- 9. Type RX ring gaskets in place of Type R.

MEC TO FURNISH:

- Bradenhead or casinghead and side valves.
- 2. Wear bushing, if required.

GENERAL NOTES:

- Deviations from this drawing may be made only with the express permission of MEC's Drilling Manager.
- 2.All connections, valves, fittings, piping, etc., subject to well or pump pressure must be flanged (suitable clamp connections acceptable) and have minimum working pressure equal to rated working pressure of preventers up through choke. Valves must be full opening and suitable for high pressure mud service.
- Controls to be of standard design and each marked, showing opening and closing position.
- 4.Chokes will be positioned so as not to hamper or delay changing of choke beans. Replaceable parts for adjustable choke, other bean sizes, retainers, and choke wrenches to be conveniently located for immediate use.
- All valves to be equipped with handwheels or handles ready for immediate
- 6. Choke lines must be suitably anchored.

- 7. Handwheels and extensions to be connected and ready for use.
- 8. Valves adjacent to drilling spool to be kept open. Use outside valves except for emergency.
- All seamless steel control piping (3000 psi working pressure) to have flexible joints to avoid stress. Hoses will be permitted.
- Casinghead connections shall not be used except in case of emergency.
- 11.Do not use kill line for routine fill-up operations.

<u>سبون</u> Submit to Appropriate District Office State Lease - 4 copies Fee Lease - 3 copies

State of New Mexico Energy, Minerals and Natural Resources Department

Form C-102 Revised 1-1-89

DISTRICT I P.O. Box 1980, Hobbs, NM 88240

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

DISTRICT II P.O. Drawer DD, Artesia, NM 88210

WELL LOCATION AND ACREAGE DEDICATION PLAT

	., Aztec, NM 87				ter boundaries of the			Well No.
NOT CHELL	ENEDGY (Corporatio		Lease SCHA	RBAUER 4			#3
ALIACHETT	ENERGI	<u> </u>			Range			
etter	Section	Township		Varige	33E.	NMPM	1.1	`A
·	4		205.					
I Footage Loc		SOUT	TH	•	660	feet from U	EAS	
60	feet from the	ducing Formation		e and Pool				Dedicated Acreage:
nd level Elev.	r r			G West	Teas		1	40 Acres
3551		Yates/se	ven River	hand mencil or hachur	e marks on the plat be	low.		
2. If mor	re than one lease	is dedicated to th	e well, outline	each and identify the	ownership thereof (bo	th as to workin	g interest and r	oyalty).
3. If mor	re than one lease ution, force-pooli	of different owns ng. etc.?			he interest of all owne	:18 Decil Conson		
	Yes	□ No	If answer is	"yes" type of consoli	dation	reverse side of		
If answe	r is "no" list the	owners and tract	descriptions wit	ich have actually occ	e consolidated. (Use		<u> </u>	an eshameira)
this form	ı il Beccessary. Yable will be assi	gned to the well	until all interest	s have been consolid	ated (by communitizate e Division.	ion, unitization	, forces-pooling	, or outerwise)
OC MUCH	n pop-standard w	nit, climinating su	ich interest, has	been approved by th	e Division.			
							OPERAT	OR CERTIFICATION
	<u>_</u>				!		1 hereby	certify that the informat n in true and complete to
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·							osition Reg. Af:	fairs Specialist
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	l l	SECTION	4, 11,208	s., R.33E.,	N.M.P.M.		Date	
	1		ŀ		İ	11	October	21, 1993
	ļ		ļ		j		SURVE	YOR CERTIFICATION
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					i		I hereby cert	fy that the well location sl
	ļ				i		on this plat	was plotted from field not s made by me or under
	1		1		i		supervison. 4	s made by me or water nd that the same is true
	. !				i		correct to the	se best of my knowledge
	1				i		belief.	
	ļ				ľ		Date Surveyo	4
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Job separation sheet

Submit to Appropriate District Office State Lease — 6 copies Fee Lease — 5 copies

State of New Mexico Energy, Minerals and Natural Resources Department

Form	C-1	01
Revis	ed 1	-1-89

OIL CONSERVATION DIVISION

DISTRICT I P.O. Box 1980, Hobbs, NM	88240			3	30-025-32012			
DISTRICT II P.O. Drawer DD, Artesia, N		ania re, New Mexico	57304-2066	5. Indicate 7	5. Indicate Type of Lease STATE FEE X			
P.O. Box 1980, Hobbs, NM 88240 Santa Fe, New Mexico 87504-2088 S. Indicate Type of Lease FE X STATE								
APPLICAT	ION FOR PERMIT	TO DRILL, DEEPEN, O	R PLUG BACK				2	
la. Type of Work:				7. Lease Na	me or Unit Ag	reement Name	-	
DRILL X RE-ENTER DEEPEN PLUG BACK b. Type of Well: OIL OAS STROLE MULTIPLE Scharbauer "4"								
2. Name of Operator			· · · · · · · · · · · · · · · · · · ·	8. Well No.	-		╗	
Mitchell Ene	ergy Corporatio							
3. Address of Operator	Q Pool name or Wildon							
P. O. Box 40	00, The Woodla	nds, Texas 77387	-4000		Wildcat			
4. Well Location Unit Letter	P : 660 F∞t I	From The South	Line and	660 Feet	From The	Rast Li	36	
Section 4	Town	ahip 20S Ran	ige 33E	NMPM	I	ea County		
							24	
		/////	1			•		
		12,0			·——		_	
	, ,		15. Drilling Contr	actor	16. Approx. I	Date Work will start		
17.	Pi	ROPOSED CASING AN	ID CEMENT PRO	OGRAM				
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPT		CEMENT	EST. TOP		
17-1/2"	K , 13-3/8"	54.5#	500 '	Premi	um	Surface		
12-1/4"	K , 8-5/8"	32#	37501	Light -	⊦ Prem	Surface		
7-7/8	N&S, 5-1/2"	17#	TD	50/50	POZ	85001		

Mitchell proposes to drill to a depth sufficient to test the Wolfcamp formation for oil. If productive, $5\frac{1}{2}$ " casing will be cemented at TD. If non-productive, the well will be plugged

and abandoned in a manner consistent preventer schematic attached as Exhibit			New Me	xico regula	itions. Blo	owout
IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: IF PROPOSAL IS TO ZONE. GIVE BLOWOUT PREVENTER PROGRAM, IF ANY.	O DEEPEN OR	PLUG BACK,	GIVE DATA ON	PRESENT PRODUCTIV	VE ZONE AND PRO	POSED NEW PRODUCTIVE
I hereby certify that the information above is true and complete to the best of my knowle	xige and belie	af.				
SIONATURE SIONATURE	<u></u> тп.е -	Req.	Affairs	Specialis	<u>t.</u> date —	06-07-93
TYPE OR PRINT NAME George Mullen					TELEPHON	NE NO. 713-377-58
(This space for State Use) ORIGINAL SIGNED BY JERRY SEXTON DISTRICT I SUPERVISOR					5.ell11	0 6 1993
APPROVED BY	TILE _				DAGECEL	
CONDITIONS OF APPROVAL, IF ANY:		F	ermit E	xpires 6 M	onths Fro	m Approval

Date Unless Drilling Underway.

MINIMUM BLOWOUT PREVENTER REQUIREM

3,000 psi Working Pressure

3 MWP

EXHIBIT # 1

CONFIGURATION

Scharbauer "4" Well No. 3 Lea County, New Mexico

STACK REQUIREMENTS

			Min.	Min. Nominal
No.	ltem		יט.ו	Nomina
1_	Flowline			
2	Fill up line			2"
3	Drilling nipple		<u></u>	
4	Annular preventer			
5	Two single or one dual hyd operated rams			
6a	Drilling spool with 2" min. 3" min choke line outlets			
6b	2" min. kill line and 3" mir outlets in ram. (Alternate to			
7	Valve	Gate □ Plug □	3-1/8″	
8	Gate valve-power operate	ed	3-1/8"	
9	Line to choke manifold	,		3″.
10	Valves	Gate □ Plug □	2-1/16"	
11	Check valve		2-1/16"	
12	Casing head			
13	Valve	Gate □ Plug □	1-13/16"	
14	Pressure gauge with need	le valve		
15	Kill line to rig mud pump m	anifold		2″

	ANNULAR PREVENTER BLIND RAMS DRILLING SPOOL T T T T T T T T T T T T T	9
•	CASING	(4)

		OPTIONAL		
16	Flanged valve		1-13/16"	

CONTRACTOR'S OPTION TO FURNISH:

- All equipment and connections above bradenhead or casinghead. Working pressure of preventers to be 3,000 psi, minimum.
- Automatic accumulator (80 gallon, minimum) capable of closing BOP in 30 seconds or less and, holding them closed against full rated working pressure.
- BOP controls, to be located near drillers position.
- 4. Kelly equipped with Kelly cock.
- Inside blowout prevventer or its equivalent on derrick floor at all times with proper threads to fit pipe being used.
- **6.**Kelly saver-sub equipped with rubber casing protector at all times.
- 7.Plug type blowout preventer tester.
- 8.Extra set pipe rams to fit drill pipe in use on location at all times.
- 9. Type RX ring gaskets in place of Type R.

MEC TO FURNISH:

- Bradenhead or casinghead and side valves.
- 2.Wear bushing, if required.

GENERAL NOTES:

- Deviations from this drawing may be made only with the express permission of MEC's Drilling Manager.
- 2.All connections, valves, fittings, piping, etc., subject to well or pump pressure must be flanged (suitable clamp connections acceptable) and have minimum working pressure equal to rated working pressure of preventers up through choke. Valves must be full opening and suitable for high pressure mud service.
- Controls to be of standard design and each marked, showing opening and closing position.
- 4.Chokes will be positioned so as not to hamper or delay changing of choke beans. Replaceable parts for adjustable choke, other bean sizes, retainers, and choke wrenches to be conveniently located for immediate use.
- All valves to be equipped with handwheels or handles ready for immediate use.
- 6.Choke lines must be suitably anchored.

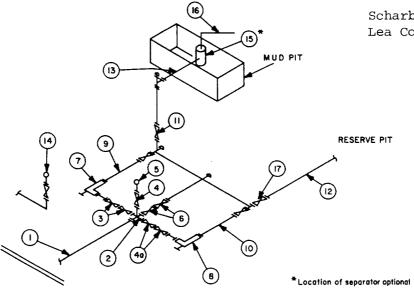
- 7. Handwheels and extensions to be connected and ready for use.
- Valves adjacent to drilling spool to be kept open. Use outside valves except for emergency.
- 9.All seamless steel control piping (3000 psi working pressure) to have flexible joints to avoid stress. Hoses will be permitted.
- Casinghead connections shall not be used except in case of emergency.
- 11.Do not use kill line for routine fill-up operations.

MINIMUM CHOKE MANIFOLD 3,000, 5,000 and 10,000 PSI Working Pressure

3 MWP - 5 MWP - 10 MWP

EXHIBIT 1-A

Scharbauer "4" Well No. 3 Lea County, New Mexico



BEYOND SUBSTRUCTURE

	· · · · · · · · · · · · · · · · · · ·		MINII	MUM REQL	IREMENTS	S				
		3,000 MWP			5,000 MWP		10,000 MWP			
No.		I.D.	NOMINAL	RATING	I.D.	NOMINAL	RATING	1.D.	NOMINAL	RATING
1	Line from drilling spool		3″	3,000		3″	5,000	I	3″	10,000
2	Cross 3"x3"x3"x2"			3,000			5,000			
	Cross 3"x3"x3"x3"									10,000
3	Valves ⁽¹⁾ Gate □ Plug □(2)	3-1/8"		3,000	3-1/8″		5,000	3-1/8"		10,000
4	Valve Gate □ Plug □(2)	1-13/16"		3,000	1-13/16"		5,000	1-13/16"		10,000
4a	Valves(1)	2-1/16"		3,000	2-1/16"		5,000	3-1/8"		10,000
5	Pressure Gauge			3,000			5,000			10,000
6	Valves Gate □ Plug □(2)	3-1/8"		3,000	3-1/8"		5,000	3-1/8"		10,000
7	Adjustable Choke(3)	2"		3,000	2"		5,000	2"		10,000
8	Adjustable Choke	1"		3,000	1″		5,000	2"		10,000
9	Line		3″	3,000		3"	5,000		3″	10,000
10	Line		2″	3,000		2"	5,000		3″	10,000
11	Valves Gate □ Plug □(2)	3-1/8"		3,000	3-1/8"		5,000	3-1/8"		10,000
12	Lines		3″	1,000		3"	1,000		3″	2,000
13	Lines		3″	1,000		3"	1,000		3″	2,000
14	Remote reading compound standpipe pressure gauge			3,000			5,000			10,000
15	Gas Separator		2'x5'			2'x5'			2'x5'	
16	Line		4"	1,000		4"	1,000		4"	2,000
17	Valves Gate □ Plug □(2)	3-1/8"		3,000	3-1/8"		5,000	3-1/8"		10,000

- (1) Only one required in Class 3M.
- (2) Gate valves only shall be used for Class 10M.
- (3) Remote operated hydraulic choke required on 5,000 psi and 10,000 psi for drilling.

EQUIPMENT SPECIFICATIONS AND INSTALLATION INSTRUCTIONS

- 1. All connections in choke manifold shall be welded, studded, flanged or Cameron clamp of comparable rating.
- 2. All flanges shall be API 6B or 6BX and ring gaskets shall be API RX or BX. Use only BX for 10 MWP.
- 3. All lines shall be securely anchored.
- 4. Chokes shall be equipped with tungsten carbide seats and needles, and replacements shall be available.
- 5. Choke manifold pressure and standpipe pressure gauges shall be available at the choke manifold to assist in regulating chokes. As an alternate with automatic chokes, a choke manifold pressure gauge shall be located on the rig floor in conjunction with the standpipe pressure gauge.
- 6. Line from drilling spool to choke manifold should be as straight as possible. Lines downstream from chokes shall make turns by large bends or 90° bends using bull plugged tees.
- 7. Discharge lines from chokes, choke bypass and from top of gas separator should vent as far as practical from the well.

Submit to Appropriate District Office State Lease - 4 copies Fee Lease - 3 copies

State of New Mexico Energy, Minerals and Natural Resources Department

Form C-102 Revised 1-1-89

OIL CONSERVATION DIVISION

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

DISTRICT II P.O. Drawer DD, Artesia, NM 88210

DISTRICT I P.O. Box 1980, Hobbs, NM 88240

WELL LOCATION AND ACREAGE DEDICATION PLAT DISTRICT III 1000 Rio Brazos Rd., Aztec, NM 87410 All Distances must be from the outer boundaries of the section Well No. Operator #3 SCHARBAUER 4 MITCHELL ENERGY Corporation County Range Township Section Unit Letter LEA 33E. **NMPM** 20S. Actual Footage Location of Well: 660 EAST line feet from the SOUTH 660 line and Dedicated Acreage: feet from the Pool Producing Formation Ground level Elev. 40 Acres 3551 Wildcat Wolfcamp 1. Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below. 2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty). 3. If more than one lease of different ownership is dedicated to the well, have the interest of all owners been consolidated by communitization, unitization, force-pooling, etc.? If answer is "yes" type of consolidation ☐ No If answer is "no" list the owners and tract descriptions which have actually been consolidated. (Use reverse side of No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, forced-pooling, or otherwise) or until a non-standard unit, eliminating such interest, has been approved by the Division. OPERATOR CERTIFICATION I hereby certify that the information contained herein in true and complete to the best of my knowledge and belief. Signature Printed Name George Mullen Position Reg. Affairs Specialist Mitchell Energy Corp. SECTION 4, T. 20S., R. 33E., N. M. P. M. June 7, 1993 SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervison, and that the same is true and correct to the best of my knowledge and Date Surveye 660' 1099 SCHRBAUR

500

1000

1500

2000

1980 2310 2640

1320 1650

990

660

310