### District I 1625 N. French Dr., Hobbs, NM 88240 District II

1301 W Grand Avenue, Artesia, NM 88210

District III 1000 Rio Brazos Road, Aztec, NM 87410

District IV

State of New Mexico Energy Minerals and Natural Resources

May 27, 2004

Form C-101

Oil Conservation Division 1220 South St. Francis Dr.

DEC 28 2007
Submit to appropriate District Office
OCD-ARTESIA ☐ AMENDED REPORT

1220 S. St. Fr <b>APPI</b>		,	M 87505 OR PERMIT	г то р		Santa Fe, RE-ENT			N, PLUGB	ACK, O	R ADI	O A ZONE	
			Operator Nam Strata Produ	e and Addre	ess					<sup>2</sup> OGRI	D Number 712		
	P.O. E		30, Roswell		-	•	1030		30 - 0	i Ç ³API.	Number	16	
' Prope	erty Code			Property Name 6 Well No.									
10	720	2			Ch	naparral S	State				#3	<u></u>	
007	Proposed Pool 1 Our post Delaware						<sup>10</sup> Proposed Pool 2						
	1	)			<sup>7</sup> Su	rface Loc	ation	•					
UL or lot no M	Section 32	Township 19-S		Lot		Feet from the 330'	eet from the North/South line Feet from the East/West line			County Eddy			
	<u> </u>	·	8 Prop	osed Bott	om Hole	e Location I	f Differer	nt From S	Surface	<b>.</b>			
UL or lot no	Section	Township		Lot		Feet from the		South line	Feet from the	East/W	Vest line	County	
<u> </u>	l			Ac	dition	al Well In	formati	on					
	Type Code		12 Well Type Co	ode		13 Cable/Rotar	у	14	Lease Type Code			nd Level Elevation	
	N Iultiple		O 17 Proposed De	ath		R  18 Formation			S 19 Contractor		3276 GL  20 Spud Date		
	iumpie		5300'	Sur		Delawar	e		contractor	Dec. 31, 2007			
Depth to Grou			0 nts			rest fresh water		04-	Distance from nearest surface water				
50' or more hi Pit Liner:	Synthetic			Pit Volum	ne 10000 bl	rom all other w bls	Drilling N		I IIIIII OF II	nore 0 nt	<u> </u>		
Close	d-Loop Syst	em 🔲		4					Brine 🛛 Diese	l/Oıl-based	Gas/A	ir 🔲	
_			2	<sup>1</sup> Propos	sed Cas	sing and C	Cement	Progran	n				
Hole S	ize		Casing Size		g weight/fo		Setting D			Sacks of Cement Estimated TOC			
16"			13 3/8"	54	5# J-55	;	300°		Ciı		ļ	Circ	
11'			8 5/8"		2# I-55		1200			Circ Circ			
7_7/8	3"		_5 1/3"	12	7#_J-55		5300	7	27	0		1000'	
<ul> <li>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.</li> <li>BOP Program: A 5000# BOP will installed on 8 5/8" casing and tested daily for operations. (Exhibit #4)</li> <li>The proposed well will be drilled to depth of 5300'. Mud system will consist of fresh water and salt gel in a lined pit. Logs will be ran from T.D. to the top of 8 5/8" casing at 1200'.</li> <li>0' to 300' Fresh water, spud mud, lime for PH and LCM as needed for seepage.</li> <li>300' to 1200' Brine water, lime for PH and LCM as needed for seepage.</li> <li>Fresh water and cut brine, lime for PH and LCM as needed for seepage.</li> <li>Caustic for PH, Starch for WL control and LCM as needed for seepage.</li> </ul>													
of my knowled constructed a an (attached)	dge and bel iccording t	icf   furtl o NMOC	on given above is the certify that the D guidelines , approved plan .	drilling p	it will be	, or	OIL CONSERVATION DIVISION  Approved by:					ON	
Signature.		74	5						BRYAN C	ARRA	INT		
Printed name:	Frank S.	Morgai	1			Title	:		DISTRIC				
Title: Vice-I	President	Operation	ons			App	roval Dat	EC 2	8 200 <b>7</b>	Expiration	Date: 0	EC 2 8 2000	
E-mail Addres	ss:												
Data Degar	nher 10	2007	Dhone: (57	5) 622 1	127	Com	ditions of A	nnraval A4	taabad 🗖				

District' I

State of New Mexico

1625 N. French Dr., Hobbs, NM 88240 Energy, Minerals & Natural Resources Department Revised October 12, 2005

District II 1301 W. Grand Avenue, Artesia, NM 88210

#### OIL CONSERVATION DIVISION

Submit to Appropriate District Office

State Lease - 4 Copies

District III

1000 Rio Brazos Rd., Aztec, NM 87410

1220 S. St. Francis Dr., Santa Fe, NM 87505

District IV

1220 South St. Francis Dr.

Fee Lease - 3 Copies

Form C-102

Santa Fe, NM 87505

□ AMENDED REPORT

1	API Numbe		<u> </u>	2 Pool Cod	ON AND AC.	REAGE DEL	3 pool Name	LA I	
•				480	100	$\sim$		elawar	<b>.</b>
4 Propert	y Code		.1		5 Property	Name	<del>,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</del>	6 #	ell Number
					CHAPARRAL	STATE			3
7 OGRID No. 8 Operator Name							Elevation		
				STRAT	'A PRODUCT	TION COMPA	I <i>NY</i>	3	276
					10 Surface				
IL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	Rast/West line	County
M	32	19-S	29-E		330	SOUTH	330	WEST	EDDY
		$^{7}B$	ottom	Hole	Location If	Different	From Sur	face	
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
	ĺ		1			l			
Dedicated Acr	res 13 Joint	or Infill 14 (	Consolidation	Code	15 Order No.		<u> </u>		
40		l							
				 	] 				
				5 			File Signatr	ank S. Mo	12/dl Date
	 		•		 		Printed	Mark S. Mo Name	KSAN
	.—————————————————————————————————————			         				RVEYOR CERTII	
				; ! !	, , , ,		I hereby plat was	RFACE LOCATION  certify that the well be plotted from field note that or under my superior superior than the superior su	ocation shown on t es of actual survey

LAT N32.61090 LON W104.104509

330,

STRATA PRODUCTION CO. CHAPARRAL STATE #3 330' FSL & 330' FWL SEC. 32, T 95, R29E

OAN R. REDO KW MEXICO 5412 SURVE

OCTOBER 6, 2007 Date of Survey

ame is true and correct to the best of my belief. Signature and Seal of Professional Surveyor:

### **Strata Production Company**

P.O. Box 1030 Roswell, NM 88203-1030

#### WELL PROGRAM

WELL NAME: Chapparral State #3 A.F.E. NO: CH-32-19-29-03

LOCATION:

330' FSL & 330' FWL Sec. 32 T19S - R29E Eddy, Co.

Prepared: Frank S. Morgan

**DIRECTIONS:** 

Directions from Artesia: East on Hwy 82 eight miles and turn right on CR 204. Travel six miles and turn right on CR 206. Travel eight miles to CR 235, left on Curry Comb Rd.

Travel four miles to booster station. Turn south on cliché road four miles to location.

**ELEVATION:** 

3276' GL Lat. N32.61090 Lon. W104.104501

FORMATIONS:	DEPTH	SUBSEA	FORMATIONS:	DEPTH	SUBSEA
Surface	0-350'	2926'	San Andres	2790-5180'	(-1905')
Top of Salt	350-990'	2285'	TO B-Spring	5180-TD	(-2025')
Base of Salt	990-1160'	2115'	TD	5300'	(-2025')
Yates	1160-1980'	1295'			
Queen	1980-2280'	995'			
Greyberg	2280-2790'	485'			

10' Samples from surface casing to T.D. 5' samples thru shows to T.D.

DRLG. TIME:

1' Drilling time by Geolograph from intermediate casing to T.D.

GR-CNL-LDT-DLL-MSFL Int. to T.D. GR-CNL Surface to T.D. LOGS:

CORES:

DST's: None Planned

**REMARKS:** 

Mud-logger on from Intermediate casing to T.D.

RIG:

	l l					
						TORGUE
CASING PROGRAM						FT-LBS
INTERVALS	<u>LENGTH</u>	<u>CASING</u>	BURST	<b>COLLAPSE</b>	<b>TENSION</b>	<u>OPTIMUM</u>
SURFACE						
	0-300'	13 3/8" 48# H-40 ST&C	1730	770	322,000	3220
INTERMEDIATE						
	0-1200'	8 5/8" 24# J-55 ST&C	2950	1370	240,000	2440
						<u> </u>
NOTE:	<u> </u>					
PRODUCTION						
	0-5300'	5 <u>1/2" 17#</u> J-55 LT&C R-3	5320	4910	247,000	2290
WELLHEAD						

WELLHEAD

AFS Energy Services Jason Mason cell (575) 703-5164

CEMI	ENTIN	G PRO	OGRAM

HOLE SIZE	CASING	DEPTH	%EXCESS	CEMENT	YIELD
SURFACE				145 sks. 35:65 Cl "C"+ 6% D-20	1 99 cuft/sk
16"	13 3/8"	300'	CIRC	3 pps D24+ 3% S1+0.025 pps D130	
				Mix Weight 12.6 PPG	
				200 sks. CI "C"+2% S1+0.025 pps D130	1.34 cuft/sk
				Mix Weight 14.8	
				Mix Water 10.51 gal./sk.	
INTERMEDIA	T <u>E</u>				
11"	8 5/8"	1200'	CIRC	170 sks. 35:65 Poz: CI "C"+5% D44+ 6%	1.34 cuft/sk
				D20+0.025 pps D130	ļ
				Mix Weight 12 6 PPG	
				Mix Water 11.19 gal./sk.	ļ
_				200 sks. Cl "C" + 1% S1+ 0 25 pps D130	1.33 cuft/sk
				Mix Weight 14.8 PPG	
				Mıx Water 6.29 gal./sk.	
PRODUCTION	<u> </u>			$\overline{}$	
7 7/8"	5 1/2"	5300'	30%	415 sks. CemCrete Blend 10/60	2.27cuft/sk
				(D961/D124)+0.03 gpsb M45+0.05 gpsb	
				D604AM+0 03gpsb D801+ 2% bwob D153	
				0.125 pps D130 Mix Weight 10.52 PPG	
				Mix Water 9.05 gal./sk.	

**CASING EQUIPMENT** 

Float epuipment. P&P Oil Tool Services. Owen Puckett cell (575) 365-8580

SURFACE

Insert float, float shoe, 13 3/8" wooden plug, 3 centralizers and 1 limit clamp.

Insert float, float shoe, 6 centralizers, 1 limit clamp and plug. Set 3 centalizers on bottom. 3 inside 13 3/8" casing.

**PRODUCTION** 

INTERMEDIATE

Float collar, float shoe, 15 centralizers, 1 limit clamp.

#### MUD PROGRAM

MUD PROGR	AIVI									
INTERVAL	WEIGHT		VIS. (SEC)		PH	W.L.(CC)	TYPE MUD AND ADDITIV			
0-300'	8.3-9 0#/gal		34-36 sec		10	NC	Spud with fresh	el:Lime		
	_						at a ratio of 10.	1 for Vis. At 34-3	36 sec/	
							1000. Paper fo	r seepage. For	lost circ.	
						1	Pump pit of 40	Vis F/W gel: So	oda Ash	
							(10:1) containing 12-15#/bbl LCM.			
0-1200'	10#/gal	28-30 sec			10	NC	Drill with native	Lime for		
					]]		Ph 10 Paper for seepage.			
1200'-5300'	10.0#/gal		28-30 sec		10	20 cc	Drill with native fluid from Inter. Add			
		-					caustic soda fo	r Ph control. At	3500' add	
							starch to reduce filtrate to 20		cc. Adjust	
							vis. To keep ho	le clean. Csg. F	t. Pump a	
							100 bbl sweep	of 40 vis/20cc ar	ound	
_							before POH to log and run casing.			
NOTIFICATIO	<u>N</u>				OFFICE		HOME	MOBILE		
<u>NAN</u>	<u> ⁄IE</u>	TITLE			<b>PHONE</b>	Ext.	<u>PHONE</u>	<b>PHONE</b>	<u>FAX</u>	
FRANK M	ORGAN	VICE PRESIDENT			622-1127	14		365-7757	623-3533	
MARK M	URPHY	PRESID	DENT		622-1127		0001101			

## MULTI-POINT SURFACE USE AND OPERATIONS PLAN STRATA PRODUCTION COMPANY

CHAPARRAL STATE #3 330' FSL & 330' FWL Section 32-TI9S-R29E Eddy County, New Mexico

This plan is submitted with Form C-101 Application for Permit to Drill, Covering the above described well. The purpose of this plan is to describe the location of the proposed well, the proposed construction activities and operations plan, the magnitude of the surface disturbance involved, and the procedures to be followed in restoring the surface so that a complete appraisal can be made of the environmental impact associated with the proposed operations.

#### 1. Existing Roads:

- A. Exhibit #3 is a road map showing the location of the proposed well. Exhibit #3A is a topographic map showing the location of the proposed well and access road Existing roads are highlighted in red and proposed roads are highlighted in yellow.
- B. Directions to location from Artesia: East on Hwy 82 eight miles and turn right on CR 204. Travel six miles and turn right on CR 206. Travel eight miles to CR 235, turn left, travel to Curry Comb Rd. Travel four miles to booster station. Turn south on cliché road and travel four miles to location.

#### 2. Proposed Access Road:

- A. 1600' of new road will be needed.
- B. Access to the location will be limited to 16' in width and will adequately drain runoff and control erosion as presently constructed.

#### 3. Location of Existing and/or Proposed Facilities:

- A. There are no production facilities on this lease at the present time.
- B. In the event that the well is productive, a production facility will be constructed with heater-treater and tank storage.
- C. All production vessels left on location will be painted to conform to BLM painting stipulations within 180 days of installation.

#### 4. Location and Type of Water Supply

The well will be drilled with a combination of fresh water and brine water based mud systems. The water will be obtained from commercial suppliers in the area and/or hauled to the location by transport trucks over existing and proposed roads as indicated in Exhibit #3.

#### 5. Source of Construction Materials

All material required for construction of the drilling pad and access roads will be obtained from private, state, or federal pits. The construction contractor will be solely responsible for securing construction materials required for this operation and paying any royalties that may be required on those materials.

#### 6. Methods of Handling Waste Disposal:

- A. Drill cuttings not retained for evaluation purposes will be disposed of in the reserve pit.
- B. Drilling fluids will be allowed to evaporate in the reserve pit prior to closure.
- C. Water produced during operations will be disposed of in the reserve pit.
- D. If any liquid hydrocarbons are produced during operations, those liquids will be stored in suitable tanks until sold.
- E. Current regulations regarding the proper disposal of human waste will be followed.
- F. All trash, junk, and other waste materials will be stored in proper containers to prevent dispersal and will be removed to an appropriate facility within one week of cessation of drilling and completion activities.

#### 7. Ancillary Facilities

There are no ancillary facilities within the immediate vicinity of the proposed well site.

#### 8. Well Site Layout

- A diagram of the drill pad is shown in Exhibit #5. Dimensions of the pad, pits, and location of major rig components are shown.
- B. The reserve pit will be lined with a high quality plastic sheeting to prevent migration of fluids.
- C. The pad dimension of 350'X 250' has been staked and flagged.

#### 9. Plans for Restoration of Surface

- A. Upon cessation of the proposed operations, if the well is abandoned, the location and road will be ripped and re-seeded. The reserve pit area, after allowing to dry will be leveled. The entire location will be restored to the original contour as much as reasonable possible. All trash, garbage, and pit lining will be hauled to appropriate disposal to assure the location is aesthetically pleasing as reasonable possible. All restoration work will be completed within 180 days of cessation of activities.
- B. The disturbed area will be restored by re-seeding during the proper growing season
- C. Three sides of the reserve pit will be fenced prior to and during drilling operations. The reserve pit will be fenced on the fourth side after the drilling rig is removed to prevent the endangerment of livestock. The fence will remain in place until the pit area has been leveled and restored.
- D. Upon cessation of the proposed operations, if the well is not abandoned, the reserve pit area will be restored as per OCD guidelines. Any additional caliche required for production facilities will be obtained from a source as described in Section 6.
- E. Within 90 days of cessation of drilling and completion operations, all equipment not necessary for production operations will be removed. The location will be cleaned of all trash and junk to assure the well site is left as aesthetically pleasing as reasonably possible.

#### 10. Surface Ownership:

JR Engineering & Construction % Jimmy Ray Richardson P0 Box 487 Carlsbad, NM 88221

#### 11. Other Information:

- A. Topography: Refer to the archaeological report for a detailed description of flora, fauna, soil characteristics, dwellings, and historical or cultural sites.
- B. The primary use of the surface at the location is for grazing of livestock.

#### 12. Operator's Representative:

A. Through APD approval, drilling, completion and production operations:

Frank S. Morgan Vice-President Operations Strata Production Company P.O. Box 1030 Roswell, New Mexico 88202-1030 575-622-1127

#### 13. Certification

I hereby certify that I, or persons under my direct supervision, have inspected the proposed drill site and access route; that I am familiar with the conditions which currently exist; that the statements made in this plan are to the best of my knowledge, true and correct; and the work associated with the operations proposed herein will be performed by Strata Production Company, its contractors and subcontractors, in accordance with this plan and the terms and conditions under which it is approved. This statement is subject to the provisions of 18 U.S.C. 1001 for the filing of a false statement.

Date: 12/20/07 Signature: Land My

Frank S. Morgan
Strata Production Company
P0 Box 1030
Roswell, New Mexico 88202-1030
(505)622-1127

Hydrogen Sulfide Drilling Operations\_Plan Strata Production Company Chaparral State #3 330' FSL & 330' FWL Section 32-TI 9S-R29E Eddy County, New Mexico

#### 1. General Requirements

Rule 118 does not apply to this well because Strata Production Company has researched this area and no high concentrations of H2S were found. Strata Production Company will have on location and working all H2S safety equipment before the Tansill Formation @ 950' for purposes of safety and insurance requirements.

#### 2. Communications

State & County Officials phone numbers are posted on rig floor and supervisors trailer. Communications in company vehicles and toolpushers are either two way radios or cellular phones.

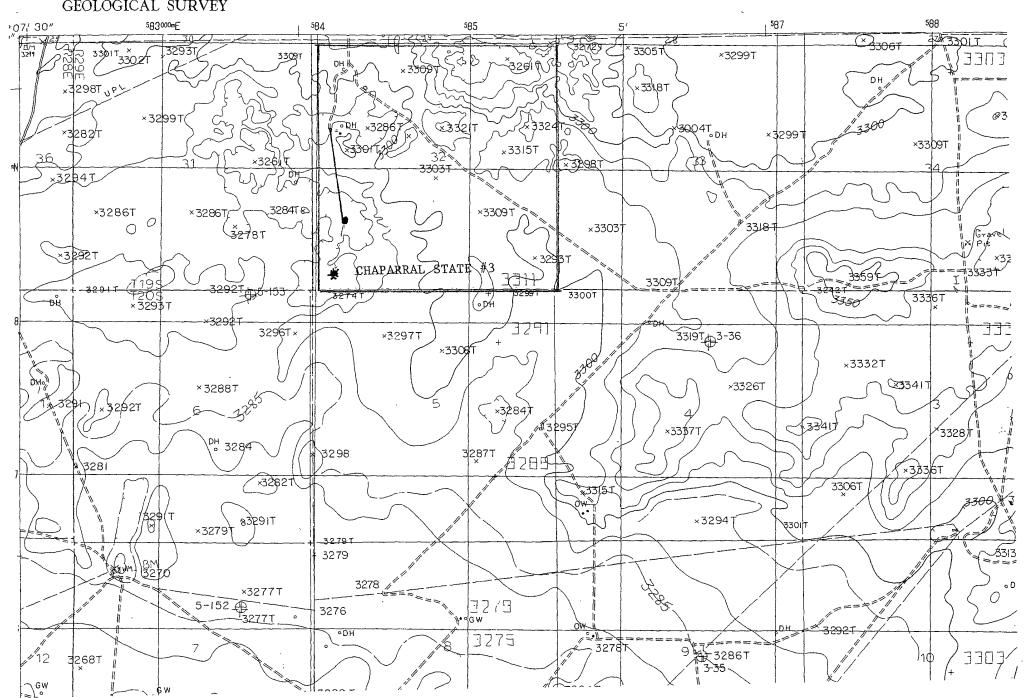
#### 3. Well Testing

Drill stem testing is not an anticipated requirement for evaluation of this well.

18 1 29 1 200 1 1 201 1 1 201 1 1 1 201 1 1 1 201 1 1 1	DE HOSKEY)	CHAPARRAL STATE  Section 32. T19	S-R29E	URT ORT Checker SF 4 6 Mit.	Active Ac	Miler ( Kebso 3 Your Sparrel )  - Ceff ( Formal )	Tenneco) 8-39 (C) 503-2 Per (C)
y Yates Pet, etal Res	PIZMON 189 FADO 51 CT L MANDEN TITA  FURNITIONERS OF SOX Res  157 638 149 148	330' FSL & 330' Eddy Co., NM	FWL Exhibit #3	Royalty O. R.D. Mannetol	Groupet Al season	of Wart 02 Marcial 1 (28	Gruy Pe
ier   16   16   16   16   16   16   16   1	73.9 230 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Burth 17 (A) County Packers (Fig.		3" Hed 10 1196THE K 5851 Frust 1 16765 1 TO 1574 1 16765 1 WW 594 HBC N/2 24 25 57	L 2473 57076 Mycolnd.	Oil Flas) Och per Lib 5 552 Threso Discovered Fork Gruy  Schligh St. Camp Mourst, Gruy  Gruy Pet 10 50 Hommit En. 14 Er.  Group Pet 10 50 Hommit En. 14 Er.  - Group Pet 10 50 Hommit En. 14 Er.	K- 4587 HBC N/
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Millian St Norrob DAST 1 212 DX F	ES (OPER.) (195 63) (197 193 193 193 193 193 193 193 193 193 193	MILL MAN UNIT MATTER SEL OPET.	HBP 14370-00 P21	K-6844 Vicket - No.	Membourne	L 1513 (So Roy) April 100	"State Com."
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LI Depth Morrod Artes) SDX Rs Wg 154 Figure	192 State 223 TD11932 4 5 SDX Res 2 6 SDX 210 1 T Prop	1	Sconiel v 22 93 Stevens	Per Coru Stories Parkway Mest La TD 2215 11 Chinesetal 141 Coll, Sec		(Gen Devan Eners Vynn - Crosby Stout x 3830 X 39Mil 1 3095 Dycs (H Chiles etal XV Tazzes (all sec)	Gruy Pet
Poble BF Arre BP (EGG) 1 State Base By Branch Branc	OHV	3 SWD LOUIS	olsc Pilo	Gen'l Devon Ener	HBC (Sunray) 57 49 (COG 0 E/G)	Oevon Devon 22   Wynn   Crosby	W/2 HBC -
DX, et al   5 3 Gulf 2 dw   187   18	2 Diverpise 23 475 balls Come Capitar. Morrs 2 Mil Landenberger Dence	Cont (Newbourne)	Flag. 19 Coquing Rediern 1 Flag 51 HBP LG 945   DIA 10 2174	43702	COG 05,6 19 000 100 000 000 000 000 000 000 000		Groupet) Chilarer (wan 1 A LG 3179
Marbob Marbob States State State State	Majco- 10 3693 DIA 6 13-67 Majco- 5' 0,11	Mewbourne TT 7 Yests!  State	Marbob-51	Devon Ener Petco, ugu 3 MBU  K 3153 K 4251	124   Evon (COGOES)   124   Evonsiana   6   Ekmarytave /2	State '	uc.s
D G Hammond 111 648 SDX 171300 HBP 648 2 tal	Sundown Ener FY Sor (Vates) Ass (9/8) 1235 6: (Dominion) Marbon	(Gulf) 177 Yeso Ener 150 Ener	OXY	MA Devon Ener forms x 30% H B P H E Chiles et al 341 [-7:1   off sec	Devon East (HE Chiles et al 3/4) Devon East (HE Chiles et al 3/4) R 3153 (HE Chiles et al 3/4) R 3153 (HE Chiles et al 3/4) Pet Corp 4 Dual To 1721 Devon La Corp 4 Figar	Devon H Deon 3/4   Ener	Green of the Control
Yotes 7 Coroline Yotes Drig Yotes		(Bennett Ryan) (Benne	V 3615 T 8470 T 8470 Self 101 12 16 Mil Eddy 51 101 12 16 Mil Extens	Sun perconoriteur	Arma 27 Mil F65 Sir 2 Mil F65 255 I.BMIL (WO) Park way West Unit   Parkway : Y UI	HBC Sic	D Gayer D liek, et al
	Fort   Serv F534 Sedgewick-St."   Serv F534 Chi Ener etal 9 1 55 V 3410 25714	Person (DA44 61) CENTER	OXY OXY  F. Bird	DEVON En	Petco) 28	PARKWAY, WEST UNIT	(Strata)
HBC 5/2 (FOO RCS)  17	Palmillo - St. 1 Tares Parkway    K B	14Mil   Larie OEG 1/4 14Mil   3500'tail462'	State	29 is 51 €	DEVON ENER 21 (OPER.) "Parkway"	茶 allsec (	p.Govlickati Perso St
OGRES 2 Angenificity   Greeney Chi Enar   to 11345   to	J. C. Williamson	2 A FAIR PROBLEM Strake (F1080) Blisec.	Marathon 13237 Penroc Oil Mortinez Fed	(wo)  (Cogung)  A 10x Disc  (Cogung)  V 4952	Devon Ener:   (G Schumate //2)   (Thunderboit Pet )   98173   H8P   90807   Mewbourne   Pet	Flynn, trai 13 S1 Morg Siete O E,G Flynn, trai 13 Expi 9 Siete O Cri For 25/2 1 90807 1 O program for Out 1449	Tr. 3 3 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
Roberts Borton (1900) Das 1 63/1 (Malanne ane Roberton) Hogon etal	C4'3362 Penroc  HBC USA  TD10485  * -408 (Penrod)  Dorchester 39M1 Pero sea  Dwylferi JE (Carperwood)	TD 48-4 E-5073	(L Leon Disc.) (To 11450) (To 11450) (To 1323) (To 1583 (	(Bass-51) 53125	to Morr Bet Corp	71 hr 14 15 WC F459 10 (Foreston) 15 Mil (#1536) 10 (Mrodeno 37) 15 Mil (#1536) 10 Hond T01591 3 A	Tr. 4 A
10 Million   10	Sagaret Latigo 5/2 - Francis Feeth Dero-Feet Penroc 2A 13 300 1 1 1 20 1 20 1 20 1 20 1 20 1 2	Robinson Bross) (Strake) W.C.Disc.	Mewbourne P Ruger Fed	10501 VB 158 32Strata Energex 10501 Ft Prod VB 158 V.4546	Meach	107000	St Mary Expl
Adoka Os.  (Smith F56  (Dul 23 )  (Dul 23 )  (Dul 25 )	Cero Fed 0256130 092190	COALE 2 60)  FEGOS A Winchester  FORD SI Com. Yewboard  Ruger Fed Co.	Tollylo Married Per )  (Pal Married Per )  (Del Married Per )	CHAPARRAL ST	Axis Enen	Conoco de	TA4600
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# UNITED STATES DEPARTMENT OF THE INTERIOR GEOLOGICAL SURVEY

CHAPARRAL STATE #3
Section 32, T19S-R29E
330' FSL & 330' FWL
Eddy Co., NM Exhibit 3-A



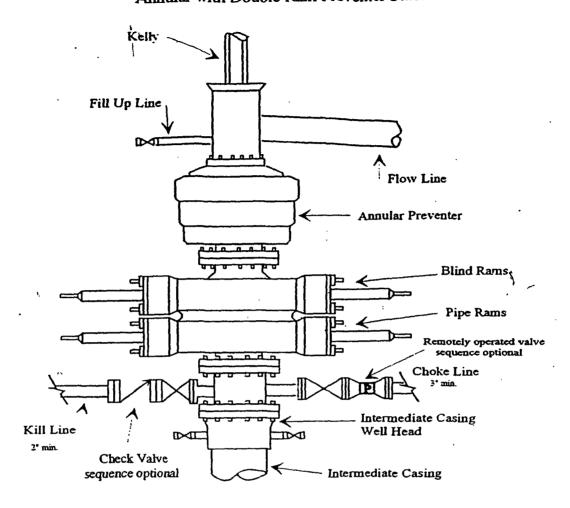
#### Notes Regarding Blowout Preventer Strata Production Company Chaparral State #3 330' FSL & 330' FWL Section 32-TI9S-R29E Eddy County, New Mexico

- 1. Drilling nipple (bell nipple) to be constructed so that it can be removed without the use of a welder through the opening of the rotary table, with minimum internal diameter equal to blowout preventer bore.
- 2. Blowout preventer and all fittings must be in good condition with a minimum 5000 psi working pressure.
- 3. Safety valve must be available on the rig floor at all times with proper connections to install in the drill string. Valve must be full bore with minimum 5000 psi working pressure.
- 4. Equipment through which bit must pass shall be at least as large as internal diameter of the casing.
- 5. A kelly cock shall be installed on the kelly at all times.
- 6. Blowout preventer closing equipment to include and accumulator of at least 40 gallon capacity, two independent sources of pressure on closing unit, and meet all other API specifications.



(Exhibit #4)

## Typical 5,000 psi Pressure System Schematic Annular with Double Ram Preventer Stack



Typical 5,000 psi choke manifold assembly with at least these minimun features

