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4370, 4270.2				UND DROCEA		
		PROPOSED CASIN				
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2 3/4"	5 1/2"	15.54 & 17				1200 sxs
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& test to 15 formation in cmt to 1000'	00# for 15 mins dicating produc	. Drill 8 3 tion during ay. WOC 24	/4" hole to this stage hrs. If p	o 9400'. ≥ of dril roduction	(DST's ling.) is in	surface, WOC 12 hrs, may be run on any Run 5 1/2" csg & dicated, complete well .0.C.C.
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UEJECT TO ATTACHED DEEP WELL CONTRACTOR ATTACHED DEEP WELL CONTRACTOR	*See Instructions On Reverse Side	CINDED IF OFERATIONS WITHIN 3 MONTHS

Form C+102 Supervedes C+128 Etternive 14-65

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EL PASO NATURAL GAS COMPANY Rocky Arroyo "D" Com. #2 Eddy County, New Mexico

- 1. Existing Road The existing road comes to our Rocky Arroyo A #1. (Dry hole). See attached contour plat road marked in blue.
- 2. <u>Planned Access Road</u> We will build a new caliche surface road (approx. 1 mile) from the Rocky Arroyo A #1 to the pipeline, follow the pipeline approximately 1/2 mile, then turn West off pipeline to new location. See contour map; new road is marked in red, pipeline in green.
- 3. <u>Well Location</u> The location will be approximately 300' x 260' compacted caliche with a lined pit on the West side of location (200' x 150'). We will have an approximate 15' cut on East side of location with a 5' fill on West.
- 4. Lateral Roads None are planned.
- 5. <u>Tank Batteries & Flow Line</u> Will be located on pad if equipment is necessary.
- 6. Location & Type of Water Supply We will use the same water well as was used on our other Rocky Arroyo Well.
- 7. <u>Methods for Handling Waste Material</u> Standard procedure acceptable to all authorized government agencies will be used to dispose of waste materials.
- 8. Location of Camp None is planned.
- 9. Location of Airstrip None is planned.
- 10. Diagram of Location See attached plat.
- 11. <u>Plans for Restoration of the Surface</u> Location will be cleaned, leveled, and restored to a condition acceptable to all authorized government agencies.

EL PASO NATURAL GAS COMPANY Rocky Arroyo D Com. #2 Sec. 4, T-22-S, R-22-E Eddy County, New Mexico

PROPOSED BLOWOUT PREVENTOR PROGRAM

3000#

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1		on 20" casing, use rotating head tested for 500#.
2	-	on 13 3/8", use double (pipe rams & blinds) with hydril tested to 3000#.
3	-	on 9 5/8", use single (pipe rams), single (pipe rams & blinds) with hydril and with rotating head. TESTED: rotating head - 500# hydril - 3000#

Will have mud separator system, all manifolding tested to 3000#.

double & single -



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El Paso Hatural Gas Company Rocky Arroyo D Com. #2 660 FWL, 1980 FSL Sec. 4, T-22-S, R-22-E Eddy County, New Mexico

Suggested Mud Program:

<u> 0° - 200'</u>: Spud with AQUAGEL flocculated with lime. Treat with cottonseed hulls, FIBERTEX and HYSEAL. If severe loss occurs, blind drill ahead to casing point with water. Spot in hole prior to coming out to run casing, 200 barrels AQUAGEL viscous and treat with cotton-seed hulls, HY-SEAL and FIBERTEX. This usually helps when cementing casing.

Surface casing - 13 3/8" at 200'

<u>200' - 2000'</u>: Drill out with water and use HY-SEAL for seepage loss of fluid. If severe loss of circulation occurs, drill ahead blind to casing point. If severe loss occurs, spot on bottom prior to coming out to run casing, 300 barrels AQUAGEL viscous mud treated with cottonseed hulls, HY-SEAL and FIBERTEX.

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Intermediate easing -- 8 5/8" at 2,000'.

2,000' - 6,500': Drill out with fresh water. Treat with Ben-Ex to reduce solids buildup and treat with lime for a pH of 10.5 to help reduce corrosion. Use HY-SEAL for seepage loss of fluid. At 5,000' add 3% KCl and maintain in system. Possible mud up for DST at 5,400'± depending on hole conditions.

<u>6,500' - 8,800'</u>: Mud up at 6,500' or prior to drilling into the lower Wolfcamp porosity. Increase KCl content to 5%. Use soda ash to reduce the hardness below 200 ppm, DEXTRID/DRISPAC to reduce the filter loss at 25cc[±], FLOSAL to increase the viscosity to 32-34 seconds and add 45 PPB of salt (NaCl) or brine water to help stabilize shale and increase the mud weight to 9.0-9.1 ppg. Maintain these properties to 8,800' unless hole conditions warrant a change. Use HY-SEAL for seepage loss of fluid.

<u>8,800' - 9,600'</u>: To the existing mud, lower the fluid loss to below 10 cc with DEXTRID/DRISPAC and add 5% KCl to help prevent damage to the Morrow formation. Maintain viscosity 34-36 seconds and mud weight 9.1-9.2 ppg. Use TORQ-TRIM for defoamer and to reduce torque.

This program is designed for maximum hole stability, formation protection, geological data recovery, and penetration.