PROPOSED WELL PLAN OUTLINE

WELLNAME HARDY 36 STATE NO. 21

CATIO	N	SEC 36, T20	S, R37E, LEA Co.,	NEW MEXICO	-				Est. GL = 3496	
VD		FORMATION	· ·	TYPE OF		CASING	т—–	FORMATION	Est. KB = 3512	<u></u>
1		TOPS &	DRILLING	FORMATION	HOLE		FRAC	PRESSURE	MUD	
000,	MD	TYPE	PROBLEMS	EVALUATION	SIZE	SIZE DEPTH	GRAD	GRADIENT	WT TYPE	
0	L				17-1/2			GIGGERA	T	DAY
		-				ST&C @ 400"	.1	ļ	SPUD	1
		1	İ			670 sx, cisc cont				\vdash
1	Ĺ	j						1		1
		RUSTLER 1295' TOP SALT 1390'					1		10 PPG BRINE	1
		101 3421 220	WASHOUTS IN SALT SECTION				1			
2			1		12-1/4			<83		İ
		BOTTOM SALT 2540	LOST CIRCULATION TO 5000'				1	`**		İ
		YATES 2700'	SEEPAGE TO SEVERE							
3		SEVEN RIVERS 2960				8-5/8",24#&32#,K-55				1
l		QUEEN 3450'	ACTIVE WATERFLOOD ZONE	TWO MAN MUDLOG @ 3500		ST&C @ 3000'				1
		GRAYBURG 3725'		I WO MIAN MUDICIG @ 3500		1400 sx, cl g: cust				1
4		SAN ANDRES 3970'		H2S MONITOR ON AT 4000'						l
ł			POSSIBLE DEVIATION TO TO				1			
									9 PPG CUT BRINE	4
5		CLORIES ALE								1
ŀ		GLORIETA 5165'	PARTIAL LOSSES POSSIBLE							
[BLINEBRY MKR 5750"						<8.4		ĺ
6							1 1			l
ŀ		TUBB MARKER 6260' DRINKARD 6510'	HAR DY ST. 36-1 HAD LOSSES @ 6357'OF 170 BPH-MUDDED UP				}		STARCH @ 6300'	
F		ABO 6855'	The state of the state of						WL 35cc	
7										
Ŀ		STRAWN 7510			7-7/8					
F	$\overline{}$									
8		DEVONIAN 8090	POSSIBLE SEVERE LOSSES]			
ŀ			FROM DEVONIAN TO TO					j		
F					ĺ			i		
9								1		
F		SIMPSON 9735'	DEVIATION POSSIBLE @ 9900' SURVEY EVERY 100' AS NECESS	NDV	ĺ				REDUCE WL @	
Γ.		McKEE SAND 9960"	WASHOUTS IN MCKEE SAND	NK I					9400' TO 15cc	
10		ELLENBRGR LIME 10410'	HAR DY ST. 36-1 HAD LOSSES					8.7-8.8	MW@8.7-9.0	
H	\dashv	GRANITE WASH 10510'	OF 10 BPH @ 10,300'-USED 8.8 MW & CaCO3 TO STOP LOSSES		l	5-1/2",17#,K-55 & L-80	,		1	
F		TD @ 10625'		GR-CAL-LDT-CNL		@ 10 625' 2075 sx, cisc cent				
11				GR-DLL-MSPL	ı	SO IS SECTION		ı	1	
F				GR~SON(LS)-DIEL 2000' OF NMR LOG					i	i
F				ROTARY SW CORES				1		
12									I	
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HEPARED BY:	BILLY GOODWIN	DAMIAN BARRETT
	DOUL INCO ENGINEERS	
	DRILLING ENGINEER	RESERVOIR ENGINEER

