(Other instructions on reverse side)

1-06-30

FORM APPROVED OMB NO. 1004-0136 Expires: February 28, 1995

UNITED STATES DEPARTMENT OF THE INTERIOR

ABOVE SPACE DESCRIE pen directionally, give pen (This space for Fede PERMIT NO. Application approval does CONDITIONS OF APPROVA	eral or State office use)	roposal is to deepen, give data and measured and true vertical TITILE Agreement holds legal or equitable title	ent	nd proposed n	ct1101000000000000000000000000000000000				
ABOVE SPACE DESCRIE pen directionally, give pert SIGNED (This space for Fede	BE PROPOSED PROGRAM: If princent data on subsurface locations The proposed program of the princent data on subsurface locations are princent data on subsurface locations.	roposal is to deepen, give data and measured and true vertical	ent	nd proposed n	new productive zone of Grappes it is to drill or any. DATE				
ABOVE SPACE DESCRIE pen directionally, give per	BE PROPOSED PROGRAM: If prince locations	roposal is to deepen, give data and measured and true vertica	depths. Give blowout prevent	od separat -	new productive zone of frepassily is to drill or any.				
CONDIT	BE PROPOSED PROGRAM: If b	roposal is to deepen, give data	on present productive zone ar I depths Give blowout prevent	od separat -	new productive zone ft freezest is to dull or any.				
	TONS OF APPR	·O VIII			Received				
	TACHED FOR	OVAL.	-		АСНЕР 202125354 50.50 30 81 82 82 82 82 82 82 82 82 82 82 82 82 82				
		SEE ATTACHED SH	EETS FOR DETAIL	GEN ANI	ROVAL SUBJECT TO VERAL REQUIREMENTS O SPECIAL STIPULATIONS CACHED 20222324				
	NSL-	5684	1	4 55					
7/8"	J-55 5½"	17#	6925'	1400 5					
12½"	Conductor 20" J-55 8 5/8"	NA 24#	1300'	Redi-n	nix cement to surface · .				
size of Hole	GRADE SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH		QUANTITY OF CEMENT				
3.		PROPOSED CASING AN	D CEMENTING PROGRA	M					
	,,,	3482' GR.			22. APPROX. DATE WORK WILL START* WHEN APPROVED				
OR APPLIED FOR, ON 1	THIS LEASE, FT. whether DF, RT, GR, etc.)	349	6925'	RO	rary				
 DISTANCE FROM PR TO NEAREST WELL, 	ROPOSED LOCATION*	349'	ROPOSED DEPTH	20. ROTA	RY OR CABLE TOOLS				
PROPERTY OR LEAST (Also to nearest d	E LINE, FT. irlg. unit line, if any)	90'	640	17. NO. 0	OF ACRES ASSIGNED HIS WELL 40				
5. DISTANCE FROM PRO			O. OF ACRES IN LEASE	1 1 2	LEA CO. NEW MEXICO				
4. DISTANCE IN MILE	S AND DIRECTION PROMPTS	in controller.	ATER BASIN		SECTION 17 T21S-R37E 12. COUNTY OR PARISH 13. STATE				
1190' FNL &	& 1310' FEL SECTI ^{zone} SAME	ON 17 T21S-R37	E LEA CO. NM Unit	A	DRINKARD 11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA				
6120 SOUTH Y	ALE SUITE 1500 (Report location clearly and	TULSA, OKLAHO	MA_74136 (918-49	91-4980	EUNICE BI-18 TILE 22900				
APACHE CORP ADDRESS AND TELEPHONE	(2	LANA WILLIAMS 9	18-491-4980)	813/	9. API WELL NO. 38540				
2. NAME OF OPERATOR			8. FARM OR LEASE NAME WELL NO. 24439 LOCKHART "A-17" # 22						
	GAS OTHER	PLE	6 5000000000000000000000000000000000000						
b. TYPE OF WELL OIL WELL	DRILL 🖾		7. UNIT AGREEMENT NAME						
b. TYPE OF WELL		6. IF INDIAN, ALLOTTEE OR TRIBE NAME							
a. TYPE OF WORK b. TYPE OF WELL	LICATION FOR F		BUREAU OF LAND MANAGEMENT NMLC-032096-A						

DISTRICT I 1625 N. FRENCH DR., HOBBS, NM 88240

State of New Mexico

Energy, Minerals and Natural Resources Department

DISTRICT II
1301 W. GRAND AVENUE, ARTESIA, NM 88210

OIL CONSERVATION DIVISION 1220 SOUTH ST. FRANCIS DR. Santa Fe, New Mexico 87505 Form C-102
Revised JUNE 10, 2003
Submit to Appropriate District Office
State Lesse - 4 Conice

State Lease - 4 Copies Pee Lease - 3 Copies

DISTRICT IV

DISTRICT III

1220 S. ST. FRANCIS DR., SANTA FE, NM 87505

1000 Rio Brazos Rd., Aztec, NM 87410

WELL LOCATION AND ACREAGE DEDICATION PLAT

☐ AMENDED REPORT

30.025-36548	Pool Code 22900	Eunice Bl. Tu. Dr. N	Porth
Property Code 24430	Pro LOCKI	Well Number 22	
ogrid No. 873	о _{ре} APACHE	Elevation 3482'	

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
Α	17	21-S	37-E		1190	NORTH	1310	EAST	LEA

Bottom Hole Location If Different From Surface

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
Dedicated Acres	Joint or	r Infill Co	nsolidation (Code Ord	der No.	5684			

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

NMLC-032096-A	OPERATOR CERTIFICATION I hereby certify the the information contained herein is true and complete to the best of my knowledge and belief.
3485.0' 3484.9'	Lana Williams Frinted Name Eng. Tech Title
	7/27/06 Date SURVEYOR CERTIFICATION
GEODETIC COORDINATES NAD 27 NME Y=541274.4 N X=855540.1 E	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 belief.
LAT.=32*28'58.05" N LONG.=103*10'49.30" W	DECEMBER 29, 2005 Date Surveyed RZB Signature & Seal of Professional Surveyor
	Certificate No. GARY EIDSON 12841 RONALD J. EIDSON 3239

State of New Mexico

DISTRICT I 1825 N. FRENCH DR., HOBBS, NM 88240

Energy, Minerals and Natural Resources Department

Form C-102

Revised JUNE 10, 2003

Submit to Appropriate District Office State Lease - 4 Copies

Fee Lease - 3 Copies

DISTRICT II 1301 W. GRAND AVENUE, ARTESIA, NM 88210

DISTRICT III 1000 Rio Brazos Rd., Aztec, NM 87410

OIL CONSERVATION DIVISION 1220 SOUTH ST. FRANCIS DR. Santa Fe, New Mexico 87505

DISTRICT IV WELL LOCATION AND ACREAGE DEDICATION PLAT ☐ AMENDED REPORT 1220 S. ST. PRANCIS DR., SANTA FR. NM 87505 Pool Code Pool Name API Number Property Code Property Name Well Number LOCKHART A-17 22 Operator Name Elevation OGRID No. APACHE CORPORATION 3482

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
Α	17	21-S	37-E		1190	NORTH	1310	EAST	LEA

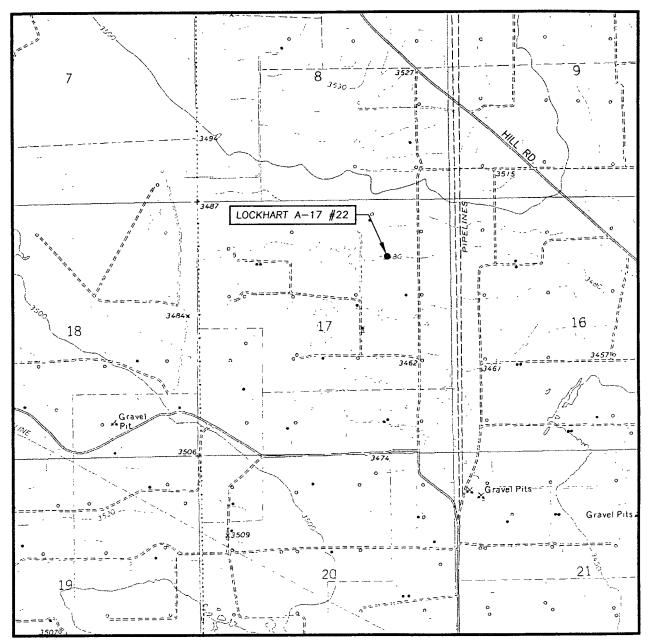
Bottom Hole Location If Different From Surface

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
Dedicated Acres	Joint o	r Infill Co	nsolidation (Code Oro	der No.				

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

OR A NON-STANDARD ONLY HAS I		
GEODETIC COORDINATES NAD 27 NME Y=541274.4 N X=855540.1 E LAT. = 32*28*58.05" N LONG. = 103*10*49.30" W	LOCKHART A-17 #41	OPERATOR CERTIFICATION I hereby certify the the information contained herein is true and complete to the best of my knowledge and belief. Lana Williams Signature Lana Williams Printed Name Eng. Tech Title 7/27/06 Date 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 belief DECEMBER 29, 2005 Date Surveyed RZB Signature & Seal of Professional Surveyor
		O5.11.2034 Certificate No. GARY EIDSON 12841 RONALD J. EIDSON 3239

LOCATION VERIFICATION MAP



SCALE: 1" = 2000'

CONTOUR INTERVAL: EUNICE, N.M. - 10'

SEC. 17 TWP. 21—S RGE. 37—E

SURVEY N.M.P.M.

COUNTY LEA

DESCRIPTION 1190' FNL & 1310' FEL

ELEVATION 3482'

OPERATOR APACHE CORPORATION

LEASE LOCKHART A—17

U.S.G.S. TOPOGRAPHIC MAP
EUNICE, N.M.



PROVIDING SURVEYING SERVICES SINCE 1946 JOHN WEST SURVEYING COMPANY 412 N. DAL PASO HOBBS, N.M. 88240 (505) 393-3117

EXHIBIT "A" Lockhart A-17 #22

DRILLING PROGRAM

I. The geological surface formation is recent Permian with quaternary alluvium and other surficial deposits.

II. Estimated Tops of Geological Markers:

<u>FORMATION</u>	DEPTH
Quaternary alluvials	Surface
Rustler	1251'
Yates	2664'
Queen	3420'
Grayburg	3687'
San Andres	3972'
Glorieta	5177'
Blinebry	5661'
Tubb	6161'
Drinkard	6510'
Abo	6745'
TD	6925'

III. Estimated depths at which water, oil, gas, or other mineral-bearing formations are expected to be encountered:

SUBSTANCE	<u>DEPTH</u>
Oil	Blinebry@5661'
	Tubb@6161'
	Drinkard@ 6561'
Gas	None anticipated

Fresh Water None anticipated

All fresh water and prospectively valuable minerals (as described by BLM) encountered during drilling will be recorded by depth and adequately protected. All oil and gas shows within zones of correlative rights will be tested to determine commercial potential.

IV. A. Proposed Casing Program:

	CASING		WEIGHT			ESTIMATED TOC -
HOLE	SIZE		<u>PER</u>		SACKS	<u>REMARKS</u>
SIZE	OD / ID	<u>GRADE</u>	<u>FOOT</u>	DEPTH	CEMENT	
12 1/4"	8 5/8"	J55 STC	24#	1300'	600	TOC - Surface
	8.097"					8.9 ppg Water-based
						Mud;
						89 ° F Est. Static
						Temp;
						83 ° F Est. Circ. Temp.
7 7/8"	5 ½"	J55 LTC	17#	6925'	1,400	TOC – Surface
	4.892"					Float Collar set @
						6880''/ 10.10 ppg
						Brine Mud;
						141 ° F Est. Static
						Temp;
						117 ° F Est. Circ.
						Temp.

V. A. Proposed Mud Program

<u>DEPTH</u> 0 – 1,300'	MUD PROPERTIES Weight: 8.6 – 9.6 ppg Viscosity: 34 – 36 sec/qt pH: NC Filtrate: NC	REMARKS Spud with a Conventional New Gel/Lime "Spud mud". Use NewGel and native solids to maintain a sufficient viscosity to keep the hole clean. Mix Paper one-two sacks every 100 feet drilled to minimize wall cake build up on water sands and to control seepage loss. At TD of interval, mix in pre-mix pit, 100 barrels of system fluid, NewGel viscosity of 60 sec/100cc, add 0.25 ppb of Super Sweep.
1300' 5600'	Weight: 9.9 – 10.1 ppg Viscosity: 28 – 29 sec/qt pH: 9-10 Filtrate: NC	Drill out from under the surface casing with Brine Water. Paper should be added at 2 bags after every 100' drilled to control seepage losses. Use Lime to maintain pH at 9-10. Mix one gallon of New-55 at flowline every 250 feet drilled to promote solids settling. Sweep hole with 5-ppb of Super Sweep every 500 feet.
5600' – TD	Weight: 9.9 – 10.1 ppg Viscosity: 30 – 40 sec/qt pH: 9-10 Filtrate: 8-15 cm/30 min	From 5600' to Total Depth, it is recommended the system be restricted to the working pits. Adjust and maintain pH with Caustic Soda. Treat system with Newcide to prevent dacterial degradation of organic materials. Mix Starch (yellow) to control API filtrate at <15cc.

VI. Proposed Control Equipment:

Will install on the 8 5/8" surface casing a 9" x 3000 psi WP Double Ram BOP and will test before drilling out of surface casing. As expected pressures will not exceed 2000 psi, we request a waiver of the remote control requirement on the accumulator of the 3M BOP and a variance to run a 2M BOP, if available. See Exhibit "H" for BOP layout.

VII. Auxiliary Equipment:

9" x 3000 psi double BOP/blind & pipe ram (2M BOP if available)

41/2" x 3000 psi Kelly valve

9" x 3000 psi mud cross - H₂S detector on production hole

Gate-type safety valve 3" choke line from BOP to manifold

2" adjustable chokes - 3" blowdown line

VIII A. Testing Program: None planned

B. <u>Logging Program:</u> The following logs may be run:

CNL, LDT, GR, CAL, DLL, MSFL, NGT, Sonic from TD-1300'

CNL, GR from TD-Surface

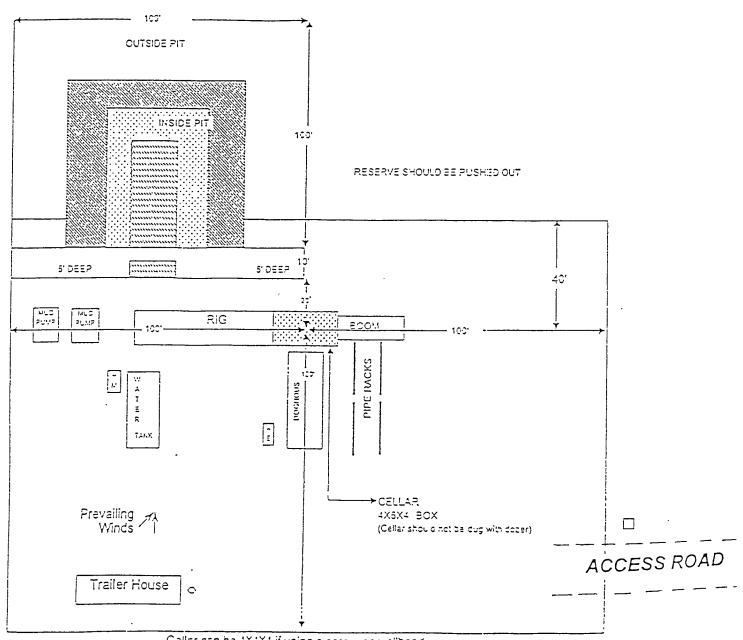
- C. Coring Program: None planned
- D. Mudlogging Program: None planned
- IX. No abnormal pressures or temperatures are anticipated. In the event abnormal pressures are encountered, however, the proposed mud program will be modified to increase the mud-weight. The estimated maximum bottom hole pressure is 2400 psi.

EXHIBIT "B" Lockhart A-17 #22

HYDROGEN SULFIDE DRILLING OPERATIONS PLAN

No H₂S is anticipated.

CapStar Drilling, Inc. LOCATION SPECIFICATIONS AND RIG LAYOUT FOR EARTH PITS



Cellar can be 4X4X4 if using a screw-on wellhead Working Pits dug 5' below ground level

- Wind Direction Indicators (wind sock or streamers)
- △ H2S Monitors (alarms at bell nipple and shale shaker)
- o Briefing Areas
- O Remote BOP Closing Unit
- Sign and Condition Flags

Location Specs EXHIBIT "G"
RIG LAY OUT PLAT

APACHE CORPORATION LOCKHART "A-17" # 22

UNIT "A" T21S-R37E

SECTION 17 LEA CO. NM

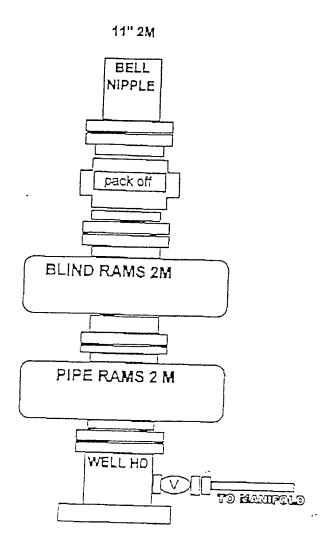


EXHIBIT "H"
SKETCH OF B.O.P. TO BE USED ON

APACHE CORPORATION
LOCKHART "A-17" # 22
UNIT "A" SECTION 17

LEA CO. NM

T21S-R37E