F-06-16

Form 3160-3
(July 1992)

OCD-HOBBS

SUBMIT IN TRIPLICATE * (Other Instructions on reverse side)

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

4/8/06

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR DEEPEN

5. LEASE DESIGNATION AND SERIAL NO.: NMLC-031741(A)

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7. UNIT AGREEMENT NAME:

8. FARM OR LEASE NAME, WELL NO.: Hawk A #20 (24426)

1a TYPE OF WORK: DRILL [X] DEEPEN [ ]

b. TYPE OF WELL: OIL WELL [X] GAS WELL [ ] OTHER — SINGLE ZONE [ ] MULTIPLE ZONE [X]

2. NAME OF OPERATOR: Apache Corporation (CO1463 Bond) (0873 OGRID)

9. API WELL NO.: 30- 025- 39021

3. ADDRESS AND TELEPHONE NO. Agent: 705 W Mescalero Rd., Roswell, NM 88201 505-624-9799 (Bonnie Jones)
Apache: 6120 S. Yale Ave., #1500, Tulsa, OK 74136 918-491-4801 (Terry Gilbert)
Send Approval to Agent: 705 W. Mescalero Rd. Roswell, NM 88201-5226

10. FIELD AND POOL OR WILDCAT: Hare; San Andres, East (Oil) (96601)

4. LOCATION OF WELL (Report location clearly and in accordance with any State requ
At Surface 1510' FNL, 1370' FEL, Unit G (SW¼NE¼)
At proposed prod. Zone 1510' FNL, 1370' FEL, Unit G (SW¼NE¼)

SEC., T., R., M., OR BLK. AND SURVEY OR AREA: Sec. 8, T21S-R37E, NMPM

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*: ±3.5 miles Northwest of Eunice, NM

12. COUNTY FOR PARISH: Lea

13. STATE: NM

CAPITAN CONTROLLED WATER BASIN

15. DISTANCE FROM PROPOSED * LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any)	16. NO. OF ACRES IN LEASE	17. NO. OF ACRES ASSIGNED TO THIS WELL
1130'	560.00	40.00
18. DISTANCE FROM PROPOSED LOCATION * TO NEAREST WELL, DRILLING, COMPLETED OR APPLIED FOR, ON THIS LEASE, FT.	**19. PROPOSED DEPTH**	**20. ROTARY OR CABLE TOOLS**
771'	4,400'	Rotary
21. ELEVATIONS (Show whether DF, RT, GR, etc.)		**22. APPROX. DATE WORK WILL START ***
3,522' (KB)		ASAP

23. PROPOSED CASING AND CEMENTING PROGRAM Witness Surface Casing

SIZE OF HOLE	GRADE, SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
		See Exhibit A		

Anticipated Duration of Program: Drilling – 16 days
Completion - 28 days

See attached Exhibit Afor complete Drilling Program

EXHIBITS

Exhibit A: Drilling Program
Exhibit B: H_2S Plan
Exhibit C: Surface Use Plan
Exhibit D: Survey Plat
Exhibit E: Location Plat
Exhibit F: Existing Well Plat
Exhibit G: Rig Layout
Exhibit H: BOP Layout

Received
Jul 13 2006
Hobbs OCD

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24.

SIGNED Bonita L. L. Jones TITLE Permit Agent for Apache Corporation DATE 6-6-06

Bonita L. L. Jones, RPL (Bonnie)

(This space for Federal or State office use)

PERMIT NO. _____ APPROVAL DATE _____

Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

CONDITIONS OF APPROVAL, IF ANY:

APPROVED BY /s/ Tony J. Herrell TITLE FIELD MANAGER DATE JUL 13 2006

*See Instructions On Reverse Side

APPROVAL FOR 1 YEAR

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

APPROVAL SUBJECT TO GENERAL REQUIREMENTS AND SPECIAL STIPULATIONS ATTACHED

Exhibit D-1

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

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

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

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

State of New Mexico
Energy, Minerals and Natural Resources Department

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 Lease – 4 Copies
Fee Lease – 3 Copies

WELL LOCATION AND ACREAGE DEDICATION PLAT

☐ AMENDED REPORT

API Number	Pool Code	Pool Name
30-025-38021	96601	Penrose Skelly Grayburg

Property Code	Property Name	Well Number
24426	HAWK A	20

OGRID No.	Operator Name	Elevation
0873	APACHE CORPORATION	3522'

Surface Location

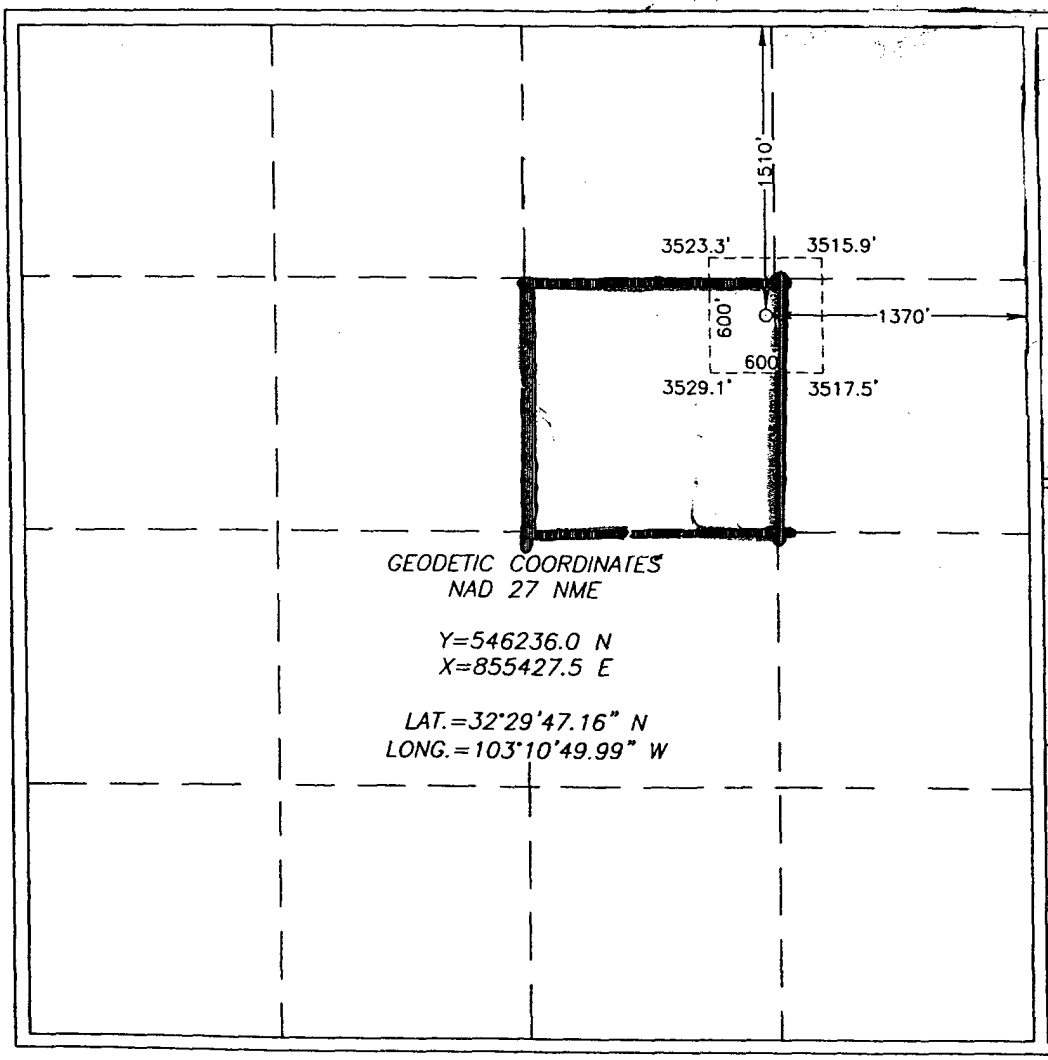
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
G	8	21-S	37-E		1510	NORTH	1370	EAST	LEA

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 Infill	Consolidation Code	Order No.
40.00			NSL-5386 (SD)

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



GEODETIC COORDINATES
NAD 27 NME

Y=546236.0 N
X=855427.5 E

LAT.=32°29'47.16" N
LONG.=103°10'49.99" W

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

Sr. Dept. Clerk
Title

3/14/06
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.

NOVEMBER 30, 2005
Date Surveyed JR

Signature & Seal of Professional Surveyor

Gary G. Eidson 12/9/05

05.11.1822

Certificate No. RONALD J. EIDSON 3239
GARY L. EIDSON 12641

Exhibit D-1

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WELL LOCATION AND ACREAGE DEDICATION PLAT

☐ AMENDED REPORT

API Number	Pool Code	Pool Name
30-025-38021	96601	Hare; San Andres,East (Oil)

Property Code	Property Name	Well Number
24426	HAWK A	20

OGRID No.	Operator Name	Elevation
0873	APACHE CORPORATION	3522'

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
G	8	21-S	37-E		1510	NORTH	1370	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 Infill	Consolidation Code	Order No.
40.00			NSL-5386 (SD)

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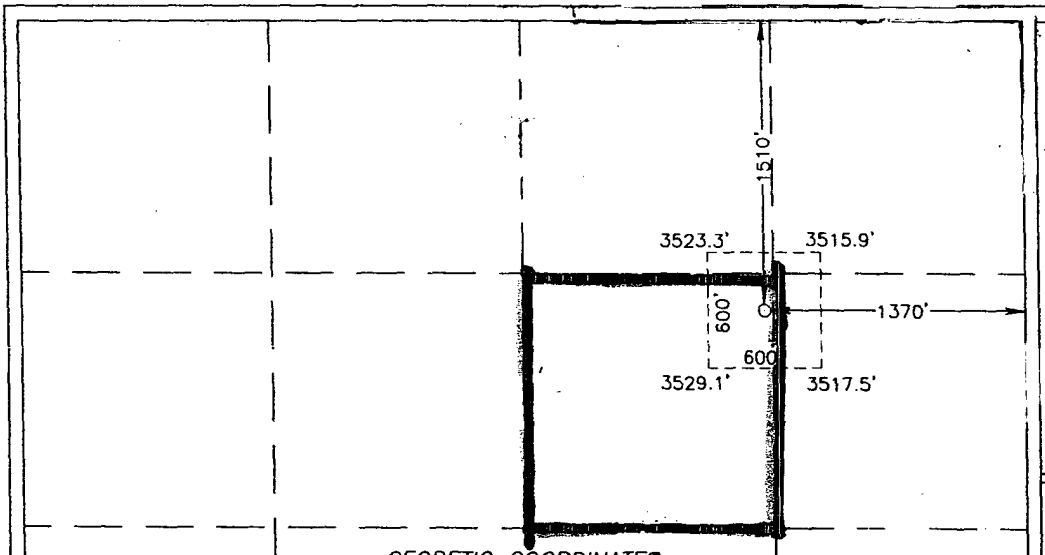

GEODETIC COORDINATES
NAD 27 NME

Y=546236.0 N
X=855427.5 E

LAT.=32°29'47.16" N
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Lana Williams
Signature

Lana Williams
Printed Name

Sr. Dept. Clerk
Title

3/14/06
Date

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Gary L. Eidson 12/9/05

05.11.1822

Certificate No. RONALD J. EIDSON 3239
GARY L. EIDSON 12841

Exhibit D-1

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WELL LOCATION AND ACREAGE DEDICATION PLAT

☐ AMENDED REPORT

API Number	Pool Code	Pool Name
30-025-38021	76520	Eunice, San Andres, N (Gas)

Property Code	Property Name	Well Number
24426	HAWK A	20

OGRID No.	Operator Name	Elevation
0873	APACHE CORPORATION	3522'

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
G	8	21-S	37-E		1510	NORTH	1370	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 Infill	Consolidation Code	Order No.
160			NSL-5386 (SD)

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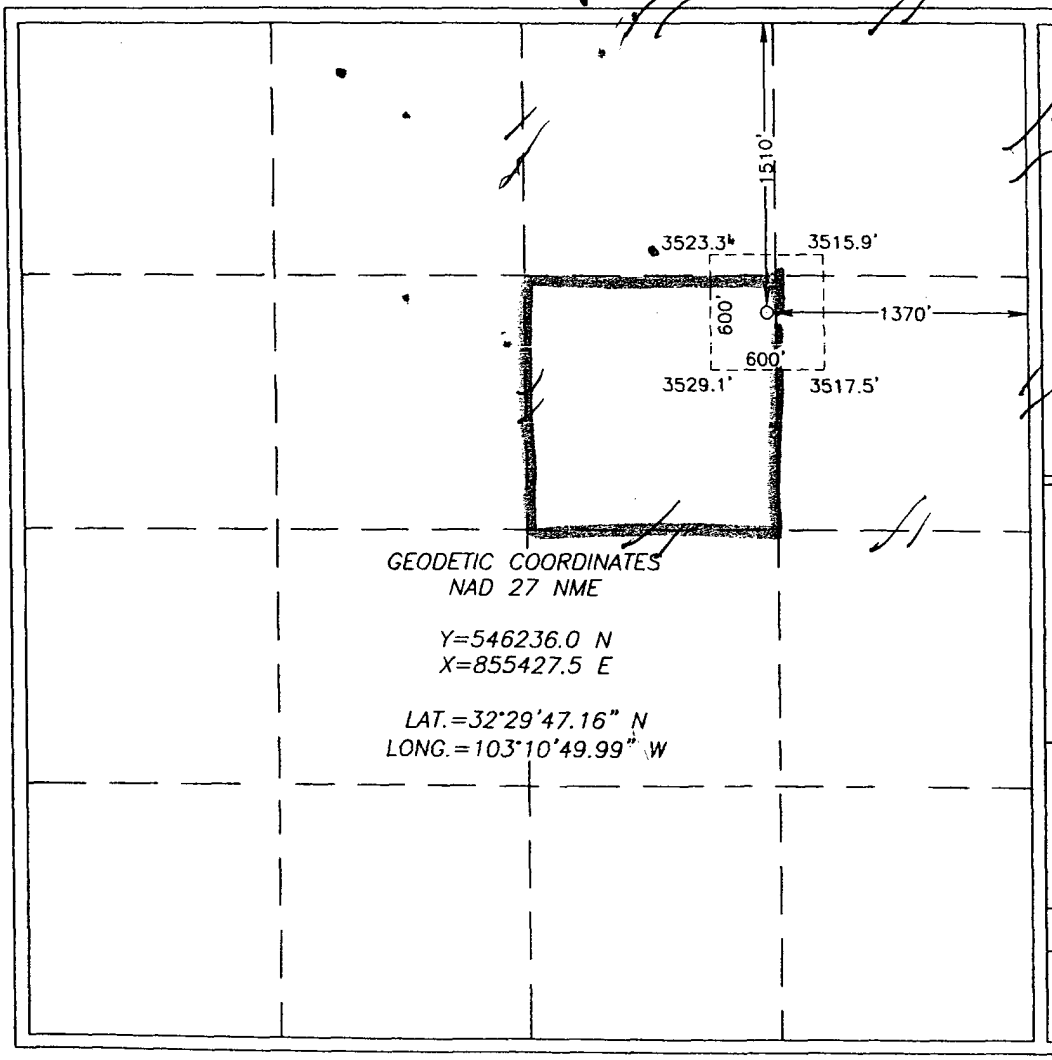

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Signature

Lana Williams
Printed Name

Sr. Dept. Clerk
Title

3/14/06
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NOVEMBER 30, 2005
Date Surveyed JR

Signature & Seal of Professional Surveyor

Gary L. Eidson 12/9/05

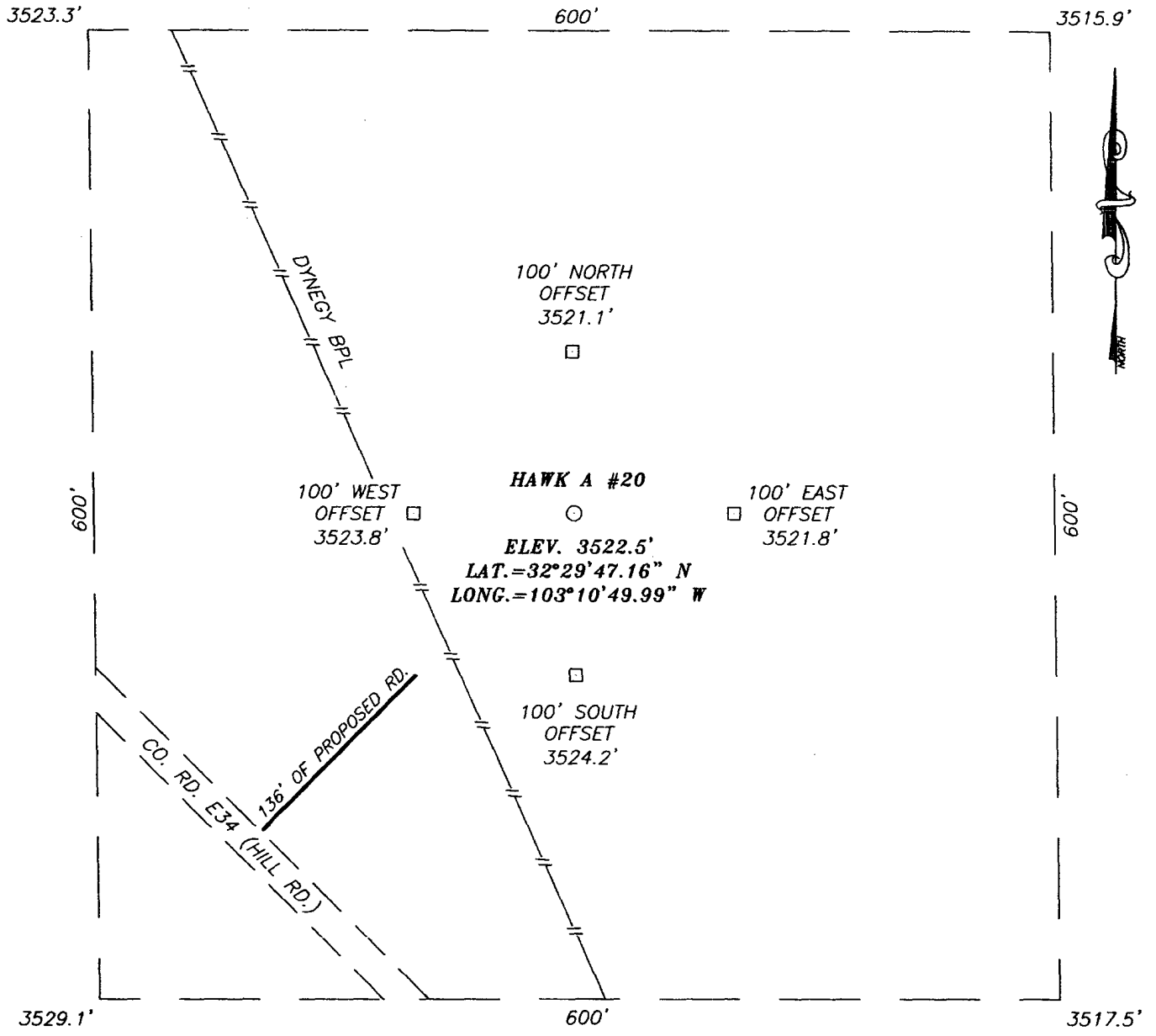
05.11.1822

Certificate No. RONALD J. EIDSON 3239
GARY L. EIDSON 12641

Exhibit D-2

SECTION 8, TOWNSHIP 21 SOUTH, RANGE 37 EAST,

LEA COUNTY, NEW MEXICO



DIRECTIONS TO LOCATION

FROM THE INTERSECTION OF ST. HWY. #207 AND CO. RD. E34 (HILL RD.) GO NW ON CO. RD. E34 APPROX. 1.8 MILES. THIS LOCATION IS APPROX. 300' EAST.

100 0 100 200 Feet

Scale:1"=100'

APACHE CORPORATION

HAWK A #20 WELL
LOCATED 1510 FEET FROM THE NORTH LINE
AND 1370 FEET FROM THE EAST LINE OF SECTION 8,
TOWNSHIP 21 SOUTH, RANGE 37 EAST, N.M.P.M.,
LEA COUNTY, NEW MEXICO.

Survey Date: 11/30/05	Sheet 1 of 1 Sheets		
W.O. Number: 05.11.1822	Dr By: J.R.		Rev 1:N/A
Date: 12/07/05	Disk: CD#5	05111822	Scale:1"=100'

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

Exhibit D-3

DISTRICT I
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WELL LOCATION AND ACREAGE DEDICATION PLAT

☐ AMENDED REPORT

API Number	Pool Code	Pool Name

Property Code	Property Name	Well Number
	HAWK A	20
OGRID No.	Operator Name	Elevation
	APACHE CORPORATION	3522'

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
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Bottom Hole Location If Different From Surface

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Dedicated Acres	Joint or Infill	Consolidation Code	Order No.

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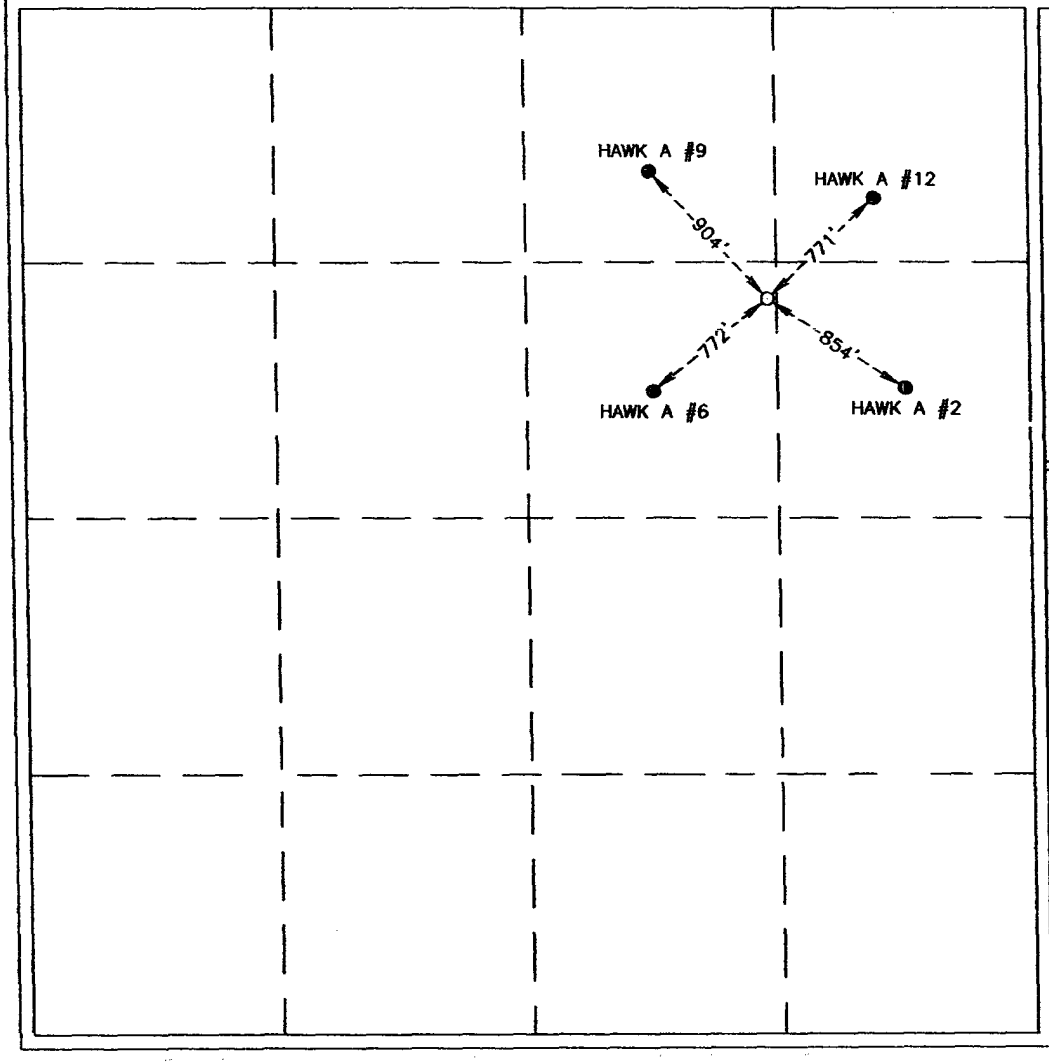

OPERATOR CERTIFICATION

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Lana Williams
Signature

Lana Williams
Printed Name

Sr. Dept. Clerk
Title

3/14/06
Date

SURVEYOR CERTIFICATION

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NOVEMBER 30, 2005
Date Surveyed JR

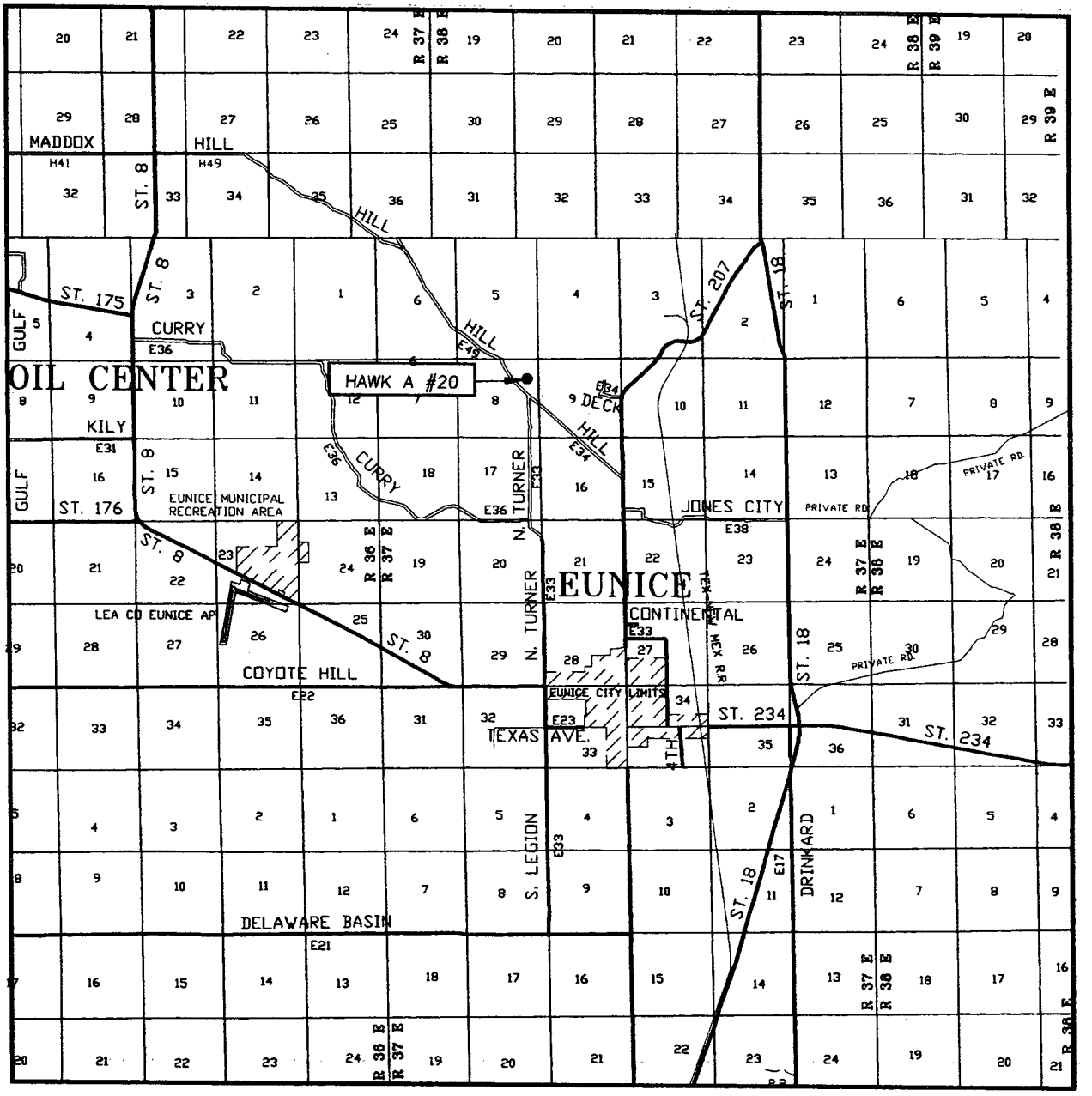
Signature & Seal of Professional Surveyor

05.11.1822

Certificate No. RONALD J. EIDSON 3239
GARY EIDSON 12641

EXHIBIT E-1

VICINITY MAP



SCALE: 1" = 2 MILES

SEC. 8 TWP. 21-S RGE. 37-E

SURVEY N.M.P.M.

COUNTY LEA

DESCRIPTION 1510' FNL & 1370' FEL

ELEVATION 3522'

OPERATOR APACHE CORPORATION

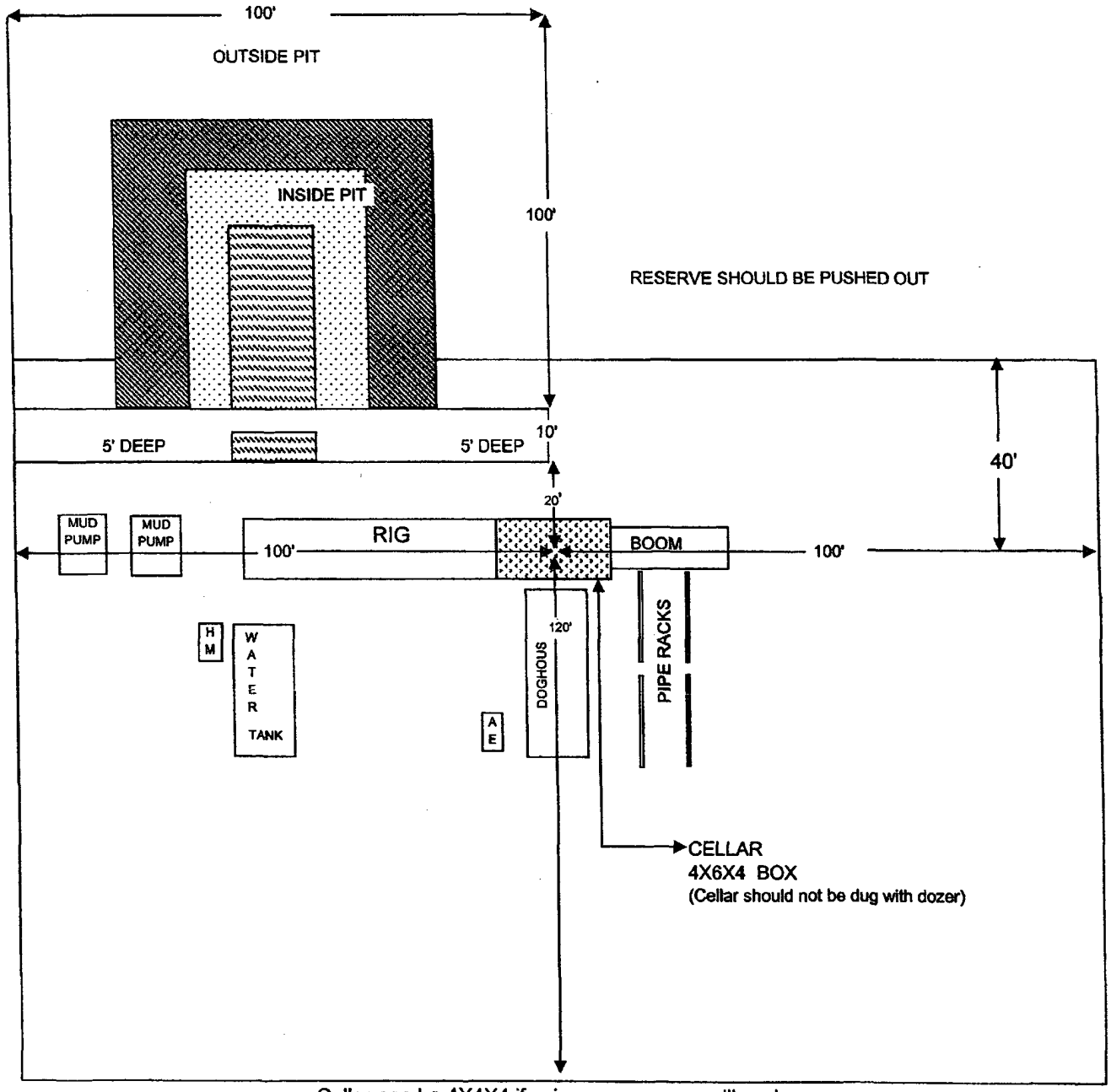
LEASE HAWK A

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

Exhibit G

CapStar Drilling, Inc.

LOCATION SPECIFICATIONS AND RIG LAYOUT FOR EARTH PITS



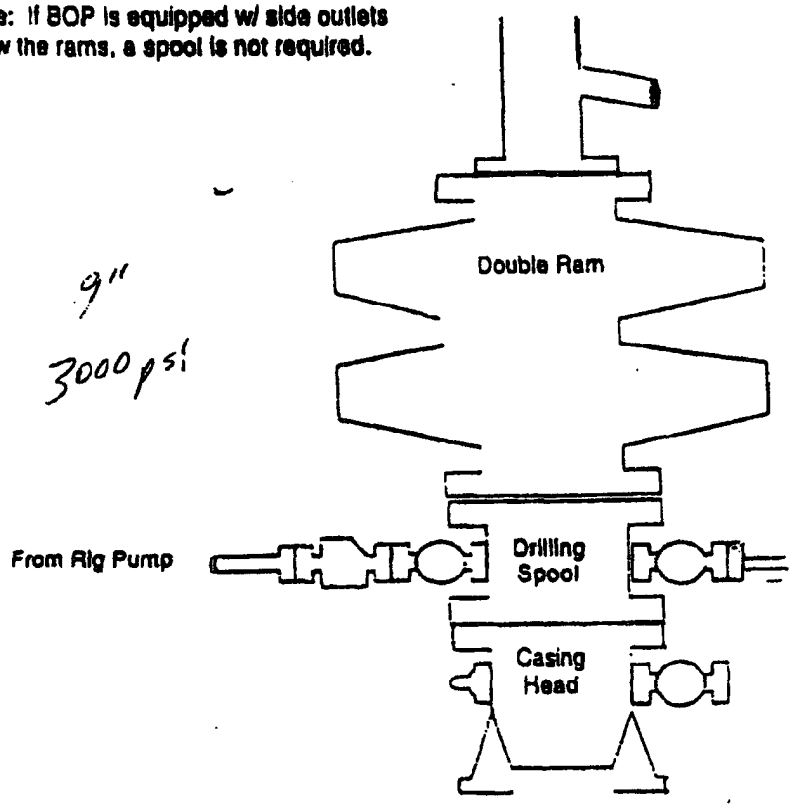
Cellar can be 4X4X4 if using a screw-on wellhead
Working Pits dug 5' below ground level

Exhibit H

BOP Schematic

*Note: If BOP is equipped w/ side outlets below the rams, a spool is not required.

3000 psi WP Double Ram Blow-out Preventor. Must be tested to 1000 psi prior to drilling out 8-5/8" surface casing.



Minimum 2" nominal to choke manifold

Choke Manifold Schematic

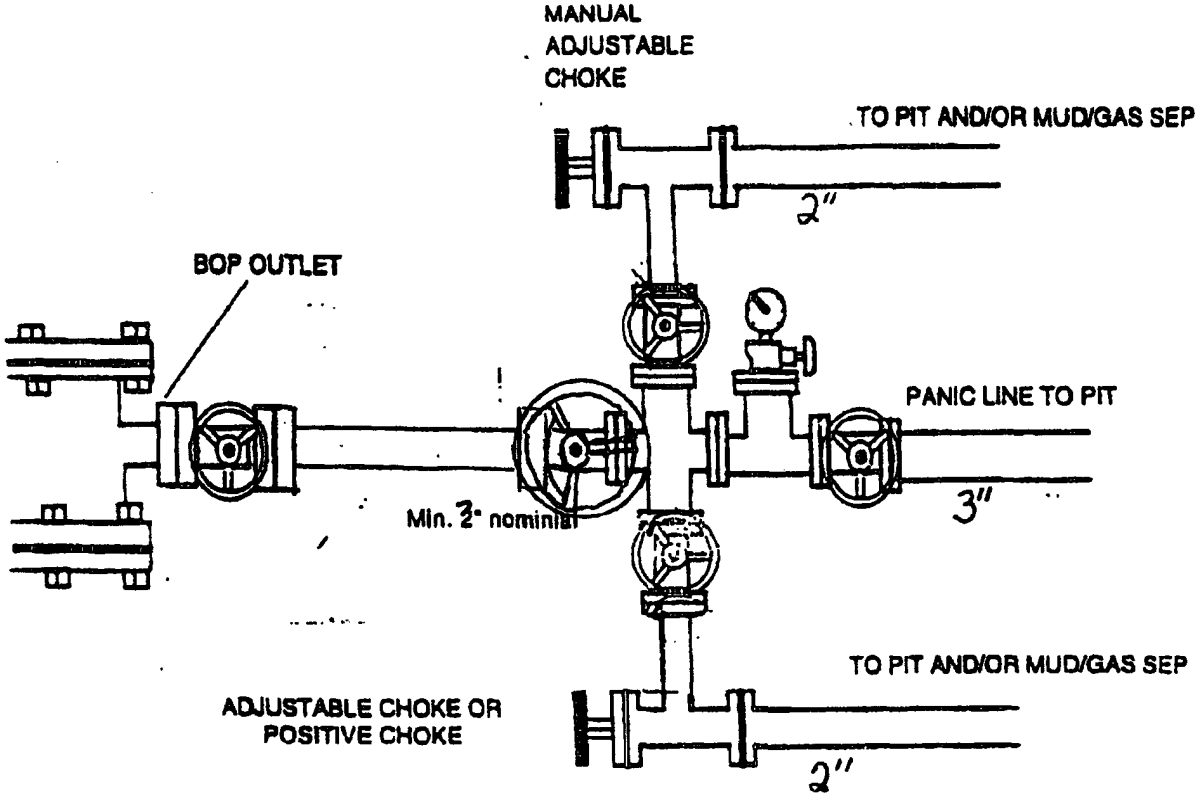


EXHIBIT "A"
Hawk A # 20

DRILLING PROGRAM

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

II. Estimated Tops of Geological Markers:

FORMATION	DEPTH
Quaternary alluvials	Surface
Rustler	1321'
Seven Rivers	2932'
Queen	3485'
Grayburg	3755'
San Andres	4050'
TD	4400'

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

SUBSTANCE	DEPTH
Oil	Grayburg@3755' San Andres@4050'
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:

HOLE SIZE	CASING SIZE OD / ID	GRADE	WEIGHT PER FOOT	DEPTH	SACKS CEMENT	ESTIMATED TOC - REMARKS
12 ¼"	8 5/8" 8.097"	J55 STC	24#	400'	400	TOC - Surface 8.9 ppg Water-based Mud; 89 ° F Est. Static Temp; 83 ° F Est. Circ. Temp.
Witness Surface Casing						
7 7/8"	5 ½" 4.892"	J55 LTC	17#	4,400'	850	TOC – Surface Float Collar set @ 4355"/ 10.10 ppg Brine Mud; 123 ° F Est. Static Temp; 104 ° F Est. Circ. Temp.

B. Proposed Cement Program:

CASING	LEAD SLURRY	TAIL SLURRY	DISPLACEMENT
8 5/8"	400 sacks 35:65 Poz:Class C Cement + 2% bwoc Calcium Chloride + 0.25 lbs/sack Cello Flake + 0.003 gps FP-6L + 6% bwoc Bentonite gel 536 Vol. Cu Ft 1.94 Vol. Factor Slurry Weight (ppg) 14.8 Slurry Yield (cf/sack) 1.34 Amount of Mix Water (gps) 6.29; Estimated Pumping Time – 70 BC (HH:MM)-4:00;	NONE	24 bbls Fresh Water @ 8.33 ppg

8 5/8" Casing: Volume Calculations:

360 ft	x	0.4127 cf/ft	with	100% excess	=	148.57 cf
40 ft		x 0.8214 cf/ft	with	0% excess	=	32.8 cf
40 ft	x	0.3576 cf/ft	with	0% excess	=	14.3 cf (inside pipe)
		TOTAL SLURRY VOLUME			=	195.67 cf
					=	34.8 bbls

Spacer 20.0 bbls Water @ 8.33 ppg

CASING	LEAD SLURRY	TAIL SLURRY	DISPLACEMENT
5 ½"	450 sacks (50:50) Poz (Fly Ash): Class C Cement + 5% bwow Sodium Chloride + 0.125 lbs/sack Cello Flake + 0.003 gps FP-6L + 10% bwoc Bentonite 1,143 Vol. Cu Ft 2.66 Vol. Factor Slurry Weight (ppg) 11.8 Slurry Yield (cf/sack) 2.54 Amount of Mix Water (gps) 14.72; Amount of Mix Fluid (gps) 14.72 Estimated Pumping Time – 70 BC (HH:MM)-4:00;	400 sacks (50:50) Poz (Fly Ash):Class C Cement + 5% bwow Sodium Chloride +0.003 gps FP-6L 540 Vol. Cu Ft 1.84 Vol. Factor Slurry Weight (ppg) 14.2 Slurry Yield (cf/sack) 1.35 Amount of Mix Water (gps) 6.34; Amount of Mix Fluid(gps) 6.34; Estimated Pumping Time – 70 BC (HH:MM)-3:00;	100 bbls 2% Kcl Water @ 8.43 ppg

5 ½" Casing: Volume Calculations:

400 ft	x	0.1926 cf/ft	with	0% excess	=	77.04 cf
2650 ft	x	0.1733 cf/ft	with	159% excess	=	1189 cf
1350 ft	x	0.1733 cf/ft	with	85% excess	=	433.0 cf
40 ft	x	0.1305 cf/ft	with	0% excess	=	5.2 cf(inside pipe)
		TOTAL SLURRY VOLUME			=	1704 cf
					=	303 bbls

All slurries will be tested prior to loading to confirm thickening times and a lab report furnished to Apache. Fluid loss will be tested and reported on slurries with fluid loss additives. Lab test report will be furnished prior to pumping cement.

V. A. Proposed Mud Program

DEPTH	MUD PROPERTIES	REMARKS
0 – 400'	Weight: 8.6 – 9.2 ppg Viscosity: 34 – 36 sec/qt pH: NC Filtrate: NC	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.
400' – 3900'	Weight: 9.0 – 10.4 ppg Viscosity: 32 – 34 sec/qt pH: NC 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. Mix one gallon of New-55 at flowline every 250 feet drilled to promote solids settling. Sweep hole with 3-ppb of Super Sweep every 500 feet.
3900' – TD	Weight: 10.0 – 10.4 ppg Viscosity: 34 – 36 sec/qt pH: 9-10 Filtrate: 15-20 cm/30 min	From 3,900' 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-20cc.

FR H2O DOWN TO TOP RUSTLER @ 1336'

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 – H_2S 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. Logging Program: 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 1500 psi.

EXHIBIT "B"
Hawk A # 20

HYDROGEN SULFIDE DRILLING OPERATIONS PLAN

No H_2S is anticipated.

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State of New Mexico
Energy Minerals and Natural Resources

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-144
June 1, 2004

For drilling and production facilities, submit to appropriate NMOCD District Office.
For downstream facilities, submit to Santa Fe office

Pit or Below-Grade Tank Registration or Closure

Is pit or below-grade tank covered by a "general plan"? Yes ☐ No ☒
Type of action: Registration of a pit or below-grade tank ☒ Closure of a pit or below-grade tank ☐

Operator: Apache Corporation (0873) Telephone: (918)-491-4801 e-mail address: terry.gilbert@apachecorp.com
Address: 6120 S. Yale Ave., #1500, Tulsa, OK 74136
Facility or well name: Hawk A # 20 API #: 30-025 - 38021 U/L or Qtr/Qtr G Sec 8 T 21S R 37E
County: Lea Latitude 32° 29' 47.16" N Longitude 103° 10' 49.99" W NAD: 1927 ☒ 1983 ☐
Surface Owner: Federal ☐ State ☐ Private ☒ Indian ☐

Pit	**Below-grade tank**	
Type: Drilling ☒ Production ☐ Disposal ☐ Workover ☐ Emergency ☐ Lined ☐ Unlined ☐ Liner type: Synthetic ☐ Thickness _____mil Clay ☐ Pit Volume _____bbl	Volume: _____bbl Type of fluid: _____ Construction material: _____ Double-walled, with leak detection? Yes ☐ If not, explain why not.	
Depth to ground water (vertical distance from bottom of pit to seasonal high water elevation of ground water.)	Less than 50 feet **50 feet or more, but less than 100 feet** 100 feet or more	(20 points) (10 points) (0 points)
Wellhead protection area: (Less than 200 feet from a private domestic water source, or less than 1000 feet from all other water sources.)	Yes No	(20 points) (0 points)
Distance to surface water: (horizontal distance to all wetlands, playas, irrigation canals, ditches, and perennial and ephemeral watercourses.)	Less than 200 feet 200 feet or more, but less than 1000 feet **1000 feet or more**	(20 points) (10 points) (0 points)
	Ranking Score (Total Points)	**10 points**

If this is a pit closure: (1) Attach a diagram of the facility showing the pit's relationship to other equipment and tanks. (2) Indicate disposal location: (check the onsite box if your are burying in place) onsite ☐ offsite ☐ If offsite, name of facility_____. (3) Attach a general description of remedial action taken including remediation start date and end date. (4) Groundwater encountered: No ☐ Yes ☐ If yes, show depth below ground surface_____ft. and attach sample results.
(5) Attach soil sample results and a diagram of sample locations and excavations.

Additional Comments: **UTILIZING CLOSED LOOP SYSTEM CONSISTING OF STEEL PITS AND COMPLETE HAUL OFF OF ALL FLUIDS AND SOLIDS.**

I hereby certify that the information above is true and complete to the best of my knowledge and belief. **I further certify that the above-described pit or below-grade tank has been/will be constructed or closed according to NMOCD guidelines ☒, a general permit ☐, or an (attached) alternative OCD-approved plan ☐.**

Date: 6-14-06
Printed Name/Title Terry Gilbert Signature

Your certification and NMOCD approval of this application/closure does not relieve the operator of liability should the contents of the pit or tank contaminate ground water or otherwise endanger public health or the environment. Nor does it relieve the operator of its responsibility for compliance with any other federal, state, or local laws and/or regulations.

Approval:
Printed Name/Title PETROLEUM ENGINEER Signature Date: JUL 24 2006