

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

OCD-HOBBS

APPLICATION FOR PERMIT TO DRILL OR DEEPEN

1a TYPE OF WORK

DRILL ☒DEEPEN ☐

5. LEASE DESIGNATION AND SERIAL NO.

NMNM-90161

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME, WELL NO.

Hawk B-1 #52

9. API WELL NO.

30-025-37998

10. FIELD AND POOL OR WILDCAT
Hare; San Andres, East (96601)11. SEC., T., R., M., OR BLK.
AND SURVEY OR AREA

Sec. 9, T21S-R37E, NMPM

12. COUNTY FOR PARISH

Lea

13. STATE

NM

b. TYPE OF WELL

OIL
WELL☒GAS
WELL☐

OTHER

SINGLE
ZONE☐MULTIPLE
ZONE☒

2. NAME OF OPERATOR

Apache Corporation (CO1463 Bond) (0873 OGRID) <873>

3. ADDRESS AND TELEPHONE NO. Agent: P.O.Box 8309, Roswell, NM 88202 505-624-9799 (Bonnie Jones)
Apache: 6120 S. Yale Ave. #1500, Tulsa, OK 74136 918-491-4801 (Terry Gilbert)4. LOCATION OF WELL (Report location clearly and in accordance with any State
At Surface 1150' FSL, 330' FEL, Unit P (SE 1/4 SE 1/4)
At proposed prod. Zone 1150' FSL, 330' FEL, Unit P (SE 1/4 SE 1/4)Send Approval to Agent:
P. O. Box 8309
Roswell, NM 88202-8309

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*

±2.75 miles North of Eunice, NM

15. DISTANCE FROM PROPOSED *

LOCATION TO NEAREST
PROPERTY OR LEASE LINE, FT. 330'
(Also to nearest drlg. unit line, if any)

16. NO. OF ACRES IN LEASE

958.25

17. NO. OF ACRES ASSIGNED
TO THIS WELL

18. DISTANCE FROM PROPOSED LOCATION *

TO NEAREST WELL, DRILLING, COMPLETED 590'
OR APPLIED FOR, ON THIS LEASE, FT.

19. PROPOSED DEPTH

4,375'

20. ROTARY OR CABLE TOOLS

Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)

3,471' (KB)

CAPITAN CONTROLLED WATER BASIN

22. APPROX. DATE WORK WILL START

ASAP

23.

PROPOSED CASING AND CEMENTING PROGRAM

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 A for complete Drilling Program

Witness Surface &
Intermediate Casing

EXHIBITS

Exhibit A: Drilling Program

Exhibit D: Survey Plat

Exhibit G: Rig Layout

Exhibit B: H₂S Plan

Exhibit E: Location Plat

Exhibit H: BOP Layout

Exhibit C: Surface Use Plan

Exhibit F: Existing Well Plat

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, RPL (Bonnie)

TITLE Permit Agent for

Apache Corporation

DATE 4-4-06

(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/ James Stovall

TITLE FIELD MANAGER

DATE

MAY 08 2006

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, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

APPROVAL FOR 1 YEAR

APPROVAL SUBJECT TO
GENERAL REQUIREMENTS
AND SPECIAL STIPULATIONS
ATTACHED

State of New Mexico

Exhibit D-1

DISTRICT I

1625 N. FRENCH DR., HOHES, NM 86249

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 86210

OIL CONSERVATION DIVISION

1220 SOUTH ST. FRANCIS DR.

Santa Fe, New Mexico 87505

DISTRICT III

1000 Rio Brazos Rd., Aztec, NM 87410

DISTRICT IV

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

WELL LOCATION AND ACREAGE DEDICATION PLAT

☐ AMENDED REPORT

API Number 30-025- 37998	Pool Code 19190	Pool Name Hare; San Andres, East
Property Code 24427	Property Name HAWK B-1	Well Number 52
OGRID No. 0873	Operator Name APACHE CORPORATION	Elevation 3471'

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
P	9	21-S	37-E		1150	SOUTH	330	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 40.00	Joint or Infill	Consolidation Code	Order No. NSL-4955-C<SD>
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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

<p style="text-align: center;">GEODETTIC COORDINATES NAD 27 NME</p> <p style="text-align: center;">Y=543675.0 N X=861779.0 E</p> <p style="text-align: center;">LAT.=32°29'21.13" N LONG.=103°09'36.17" W</p>	<p style="text-align: center;">DETAIL</p>		<p style="text-align: center;">SEE DETAIL</p>
	<p style="text-align: center;">OPERATOR CERTIFICATION</p> <p>I hereby certify the the information contained herein is true and complete to the best of my knowledge and belief.</p> <p><i>Lana Williams</i> Signature</p> <p>Lana Williams Printed Name</p> <p>Sr. Dept. Clerk Title</p> <p>2/28/06 Date</p>		
	<p style="text-align: center;">SURVEYOR CERTIFICATION</p> <p>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 supervision, and that the same is true and correct to the best of my belief.</p> <p style="text-align: center;">NOVEMBER 30, 2005</p> <p>Date Surveyed _____ JR</p> <p>Signature & Seal of Professional Surveyor</p> <p style="text-align: center;">NEW MEXICO</p> <p><i>Gary J. Edson</i> Professional Surveyor</p> <p style="text-align: center;">05.11.1818</p>		
	<p>Certificate No. RONALD J. EDSON 3239 GARY EDSON 12641</p>		

EXHIBIT "A"
Hawk B-1 # 52

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>	<u>DEPTH</u>
Quaternary alluvials	Surface
Rustler	1280'
Yates	2627'
Seven Rivers	2849'
Queen	3423'
Grayburg	3738'
San Andres	3976'
TD	4375'

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

<u>SUBSTANCE</u>	<u>DEPTH</u>
Oil	Grayburg@3738' San Andres@3976'
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:

<u>HOLE</u>	<u>CASING</u>	<u>WEIGHT</u>		<u>ESTIMATED TOC -</u>
<u>SIZE</u>	<u>SIZE</u>	<u>PER</u>	<u>FOOT</u>	<u>REMARKS</u>
	<u>OD / ID</u>	<u>GRADE</u>	<u>DEPTH</u>	<u>CEMENT</u>
12 1/4"	8 5/8"	J55 STC	24#	400'
	8.097"			400
				TOC - Surface
				8.9 ppg Water-based
				Mud;
				89 ° F Est. Static
				Temp;
				83 ° F Est. Circ. Temp.
				TOC - Surface
				Float Collar set @
				4330"/ 10.10 ppg
				Brine Mud;
				123 ° F Est. Static
				Temp;
				104 ° F Est. Circ.
				Temp.

B. Proposed Cement Program:

<u>CASING</u>	<u>LEAD SLURRY</u>	<u>TAIL SLURRY</u>	<u>DISPLACEMENT</u>
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; <u>Estimated Pumping Time</u> – 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

<u>CASING</u>	<u>LEAD SLURRY</u>	<u>TAIL SLURRY</u>	<u>DISPLACEMENT</u>
5 1/2"	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 <u>Estimated Pumping Time – 70</u> <u>BC (HH:MM)-4:00;</u>	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; <u>Estimated Pumping Time – 70</u> <u>BC (HH:MM)-3:00;</u>	100 bbls 2% Kcl Water @ 8.43 ppg

5 1/2" Casing: Volume Calculations:

400 ft	x	0.1926 cf/ft	with 0% excess	=	77.04 cf
2625 ft	x	0.1733 cf/ft	with 159% excess	=	1178 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					= 1693 cf
					= 301 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

<u>DEPTH</u>	<u>MUD PROPERTIES</u>	<u>REMARKS</u>
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.

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. Logging Program: The following logs may be run:

CNL, LDT, GR, CAL, DLL, MSFL, NGT, Sonic from TD-400'
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 B-1 # 52

HYDROGEN SULFIDE DRILLING OPERATIONS PLAN

No H₂S is anticipated.

EXHIBIT "C"

SURFACE USE AND OPERATIONS PLAN
CULTURAL RESOURCES SURVEY
APPROXIMATE REHABILITATION SCHEDULE

LOCALITY: **HAWK B-1 # 52**
OPERATOR: **APACHE CORPORATION**

LOCATION: SE $\frac{1}{4}$ SE $\frac{1}{4}$ OF SECTION 9, T21S-R37E, N.M.P.M.
LEA COUNTY, NEW MEXICO

SUBMITTED TO:

UNITED STATES DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
CARLSBAD FIELD OFFICE
620 E. GREENE ST
CARLSBAD, NM 88220
TELEPHONE (505) 234-5972

This plan is submitted to provide permitting agencies with information necessary to allow an appraisal of the environmental effects associated with the proposed drilling operations. Within the context of typical drilling operations, this plan provides for protection of surface resources and other environmental components. This plan has been developed in conformity with the United States Geological Survey NTL-6 guidelines, Bureau of Land Management Oil and Gas Order No. 1, and in connection and consultation with the private surface owner of record, if other than the United States of America, as well as the Roswell District Office for the Bureau of Land Management and the United States Department of the Interior personnel.

PART #1:

- 1) Surface Location:
SE $\frac{1}{4}$ SE $\frac{1}{4}$ of Section 9, Township 21 South, Range 37 East, N.M.P.M.
Lea County, New Mexico
1150' FSL, 330' FEL, Unit P
See attached Exhibits "D" and "E"
- 2) Bottom Hole Location:
SE $\frac{1}{4}$ SE $\frac{1}{4}$ of Section 9, Township 21 South, Range 37 East, N.M.P.M.
Lea County, New Mexico
1150' FSL, 330' FEL, Unit P
See attached Exhibits "D" and "E"
- 3) Leases Issued: NM-90161
- 4) Record Lessee:

Apache Corporation	50%
BP America	25%
Chevron USA	25%

5) Acres in Lease:

Township 21 South, Range 37 East, NMPM

Section 4: Lots 3, 6

Section 6: E $\frac{1}{2}$ SE $\frac{1}{4}$, SW $\frac{1}{4}$ SE $\frac{1}{4}$

Section 8: E $\frac{1}{2}$ SW $\frac{1}{4}$, SE $\frac{1}{4}$

Section 9: E $\frac{1}{2}$ NW $\frac{1}{4}$, S $\frac{1}{2}$

Township 20 South, Range 37 East, NMPM

Section 13: SW $\frac{1}{4}$ NE $\frac{1}{4}$, NW $\frac{1}{4}$, SW $\frac{1}{4}$

Township 20 South, Range 38 East, NMPM

Section 30: Lot 1

Total Acres: 958.25

6) Acres Dedicated to Well:

There are 40.00 acres dedicated to this well, which takes in the SE $\frac{1}{4}$ SE $\frac{1}{4}$ of Section 9, Township 21 South, Range 37 East, N.M.P.M., Lea County, New Mexico.

PART #2:

1) Existing Roads:

Exhibits "E-1" & "E-2" comprise maps showing the proposed well site in relation to existing roads. From the intersection of Highway 8 and loop road # 207 in Eunice, New Mexico, go north on Highway 207 for 2.7 miles. Turn left (west) on "Hill" road. Go 1/10 mile and turn right (north) then go 5/10 mile to location as illustrated on Exhibit "E-2".

2) Planned Access:

- A. Length and Width: A new, 359-foot access road, 14' wide, will be constructed from the existing lease/access road to the well site. 30' will be provided in the turns. Application for a buried pipeline will be made if it becomes necessary.
- B. Construction: The existing roads will be lightly graded and topped with compacted caliche as needed.
- C. Turnouts: None required.
- D. Culverts: None required.
- E. Cuts and Fills: As needed.
- F. Gates and Cattleguards: None required.

3) Location of Existing Wells:

Exhibit "F" shows existing wells within a 1-mile radius of the proposed well.

4) Location of Existing and/or Proposed Facilities:

- A. There are production facilities within the area of the Hawk B-1 lease.
- B. If the oil well proves to be commercial, any necessary production facilities will be installed on the drilling pad, and flow lines will be installed along the proposed and existing roads to the production facilities and storage tanks. See Exhibit "E-3" for flow-line route.

5) Location and Type of Water Supply:

Apache Corporation plans to drill the proposed well with fresh and brine water which will be transported by truck over proposed and existing access roads.

6) Source of Construction Materials:

Caliche for surfacing access roads and the wellsite pad will be obtained from the location itself or from BLM pits in the area.

7) Method of Handling Waste Material:

- A. Drill cuttings will be disposed of in the reserve pits.
- B. Drilling fluids will be allowed to evaporate in the reserve pits until the pits are dry.
- C. All pits will be fenced with normal fencing materials to prevent livestock from entering the area.
- D. Water produced during operations will be collected in tanks until hauled to an approved disposal system.
- E. Oil produced during operation will be stored in tanks until sold.
- F. Apache Corporation will comply with current laws and regulations pertaining to the disposal of human waste.
- G. All waste materials will be contained to prevent scattering by the wind and will be removed from the well site within 30 days after drilling and/or completion operations are finished.

8) Ancillary Facilities: None planned.

9) Well Site Layout:

- A. Exhibit "G" shows the relative location and dimensions of the well pad, reserve pits, and major rig components. The pad and pit area have been staked and flagged.
- B. Mat Size: 150' x 210' plus reserve pits as shown on Exhibit "G".
- C. Cut & Fill: Only minor leveling of the drilling site is anticipated.
- D. The surface will be topped with compacted caliche and the reserve pits will be lined with 12 mil plastic.

10) Plans for Restoration of the Surface:

- A. After completion of drilling and/or completion operations, all equipment and other material, not needed for operations, will be removed. Pits will be filled and the location cleaned of all trash and junk to leave the well site in as aesthetically pleasing a condition as possible.
- B. Any unguarded pits containing fluids will be fenced until they are filled.
- C. If the proposed well is non-productive, Apache Corporation will comply with all rehabilitation and/or vegetation requirements of the Bureau of Land Management, and such rehabilitation will be accomplished as expeditiously as possible. All pits will be filled and leveled within 90 days after abandonment.

11) Other Information:

- A. Topography: The wellsite and access road are located in the Querecho Plains and are relatively flat.
- B. Soil: The proposed location, access road and production facilities consist of sandy soil. Slope in the proposed area ranges from zero (0) to five (5) degrees.
- C. Flora and Fauna: Vegetation is one of a grassland environment and a scrub-grass, scrub disclimax community. The wildlife consists of rabbits, coyotes, rattlesnakes, lizards, dove, quail and other wildlife typical of the semi-arid desert land.
- D. Ponds and Streams: There are no ponds, lakes, streams or feeder creeks in the immediate area.
- E. Residences and Other Structures: There are no occupied residences or other structures on or near the proposed location.
- F. Land Use: The land is used for grazing cattle.
- G. Surface Ownership: The surface is owned by the Miller Deck Estate, c/o Bank of America NA, Attention: Tim Wolters. P. O. Box 270, Midland, TX 79701, 432-685-2064. A surface damage release was executed by both Apache Corporation and the Miller Deck Estate on December 1, 2005.
- H. Archaeological, Historical, and Other Cultural Sites:
Don Clifton, Archaeological Consultant, of Pep, New Mexico, will be conducting an archaeological survey of the proposed well which covers the drilling location, production facilities, and access road, including a corridor along said access road for power and flow lines. His report will be filed under separate cover.
- I. Senior Representative (Manager, Engineering & Production):

Ross Murphy
Apache Corporation
Suite 1500 – Two Warren Place
6120 South Yale Avenue
Tulsa, Oklahoma 74136
(918) 491-4834

Project (Operations Engineer):

Kevin Mayes
Apache Corporation
Suite 1500 – Two Warren Place
6120 South Yale Avenue
Tulsa, Oklahoma 74136
(918) 491-4972

Drilling Operations (Operations Engineer):

Terry Gilbert
Apache Corporation
Suite 1500 – Two Warren Place
6120 South Yale Avenue
Tulsa, Oklahoma 74136
(918) 491-4801

CERTIFICATION

I hereby certify that Apache Corporation has inspected the proposed drillsite and access route; that I am familiar with the conditions which presently exist; that the statements made in the plan are, to the best of my knowledge, true and correct; and, that the work associated with the operations proposed herein will be performed by Apache Corporation and its contractors and subcontractors in conformity 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.



Bonita L. L. Jones, RPL, Consulting Landman
Agent for Apache Corporation
P. O. Box 8309
Roswell, New Mexico 88202-8309
(505) 624-9799 FAX (505) 624-9799
E-Mail: 'blljones@plateautel.net'

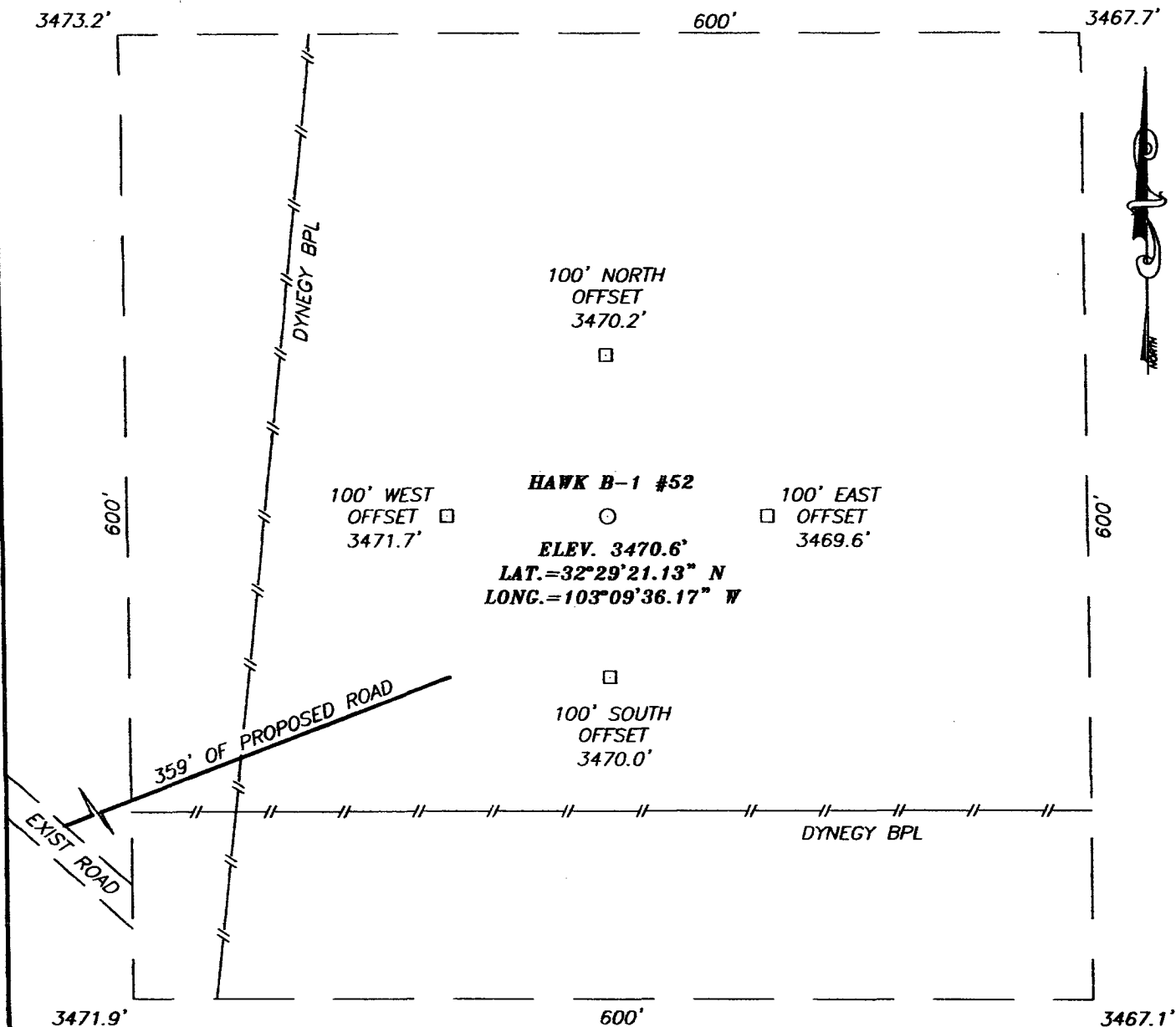
Date: 4-4-06

SECTION 9; TOWNSHIP 21 SOUTH, RANGE 37 EAST,

LEA COUNTY,

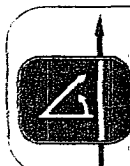
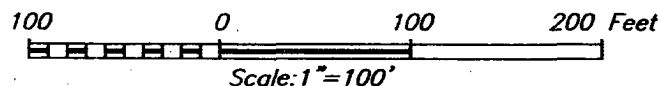
NEW MEXICO

Exhibit D-2



DIRECTIONS TO LOCATION

FROM THE INTERSECTION OF ST. HWY. #207 AND CO. RD. E34 (HILL RD.) GO NORTH ON ST. RD. #207 FOR APPROX. 0.6 MILES. TURN LEFT (WEST) AND GO APPROX. 0.1 MILES. THIS LOCATION IS APPROX. 400' NORTH.



PROVIDING SURVEYING SERVICES
SINCE 1948
JOHN WEST SURVEYING COMPANY
412 N. DAL PASO
HOBBS, N.M. 88240
(505) 393-3117

APACHE CORPORATION

HAWK B-1 #52 WELL
LOCATED 1150 FEET FROM THE SOUTH LINE
AND 330 FEET FROM THE EAST LINE OF SECTION 9,
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: 05.11.1818	Dr By: J.R.
Date: 12/07/05	Disk: CD#5
05111818	Scale: 1"=100'

DISTRICT I

1625 N. FRENCH DR., HOESRS, NM 88240

State of New Mexico

Energy, Minerals and Natural Resources Department

Form C-102

DISTRICT II

1301 W. GRAND AVENUE, ARTESIA, NM 88210

OIL CONSERVATION DIVISION

Revised JUNE 10, 2003
Submit to Appropriate District Office1220 SOUTH ST. FRANCIS DR.
Santa Fe, New Mexico 87505State Lease - 4 Copies
Fee Lease - 3 Copies

DISTRICT III

1000 Rio Brazos Ed., Aztec, NM 87410

DISTRICT IV

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

WELL LOCATION AND ACREAGE DEDICATION PLAT

☐ AMENDED REPORT

API Number	Pool Code	Pool Name
Property Code	Property Name HAWK B-1	Well Number 52
OGRID No.	Operator Name APACHE CORPORATION	Elevation 3471'

Surface Location

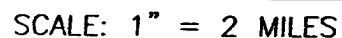
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
P	9	21-S	37-E		1150	SOUTH	330	EAST	LEA

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.						

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

	OPERATOR CERTIFICATION I hereby certify the the information contained herein is true and complete to the best of my knowledge and belief. <i>Lara Williams</i> Signature Lara Williams Printed Name Sr. Dept. Clerk Title 2/28/06 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 supervision, 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 05.11.1818
	Certificate No. RONALD J. EIDSON 3239 GARY EIDSON 12641

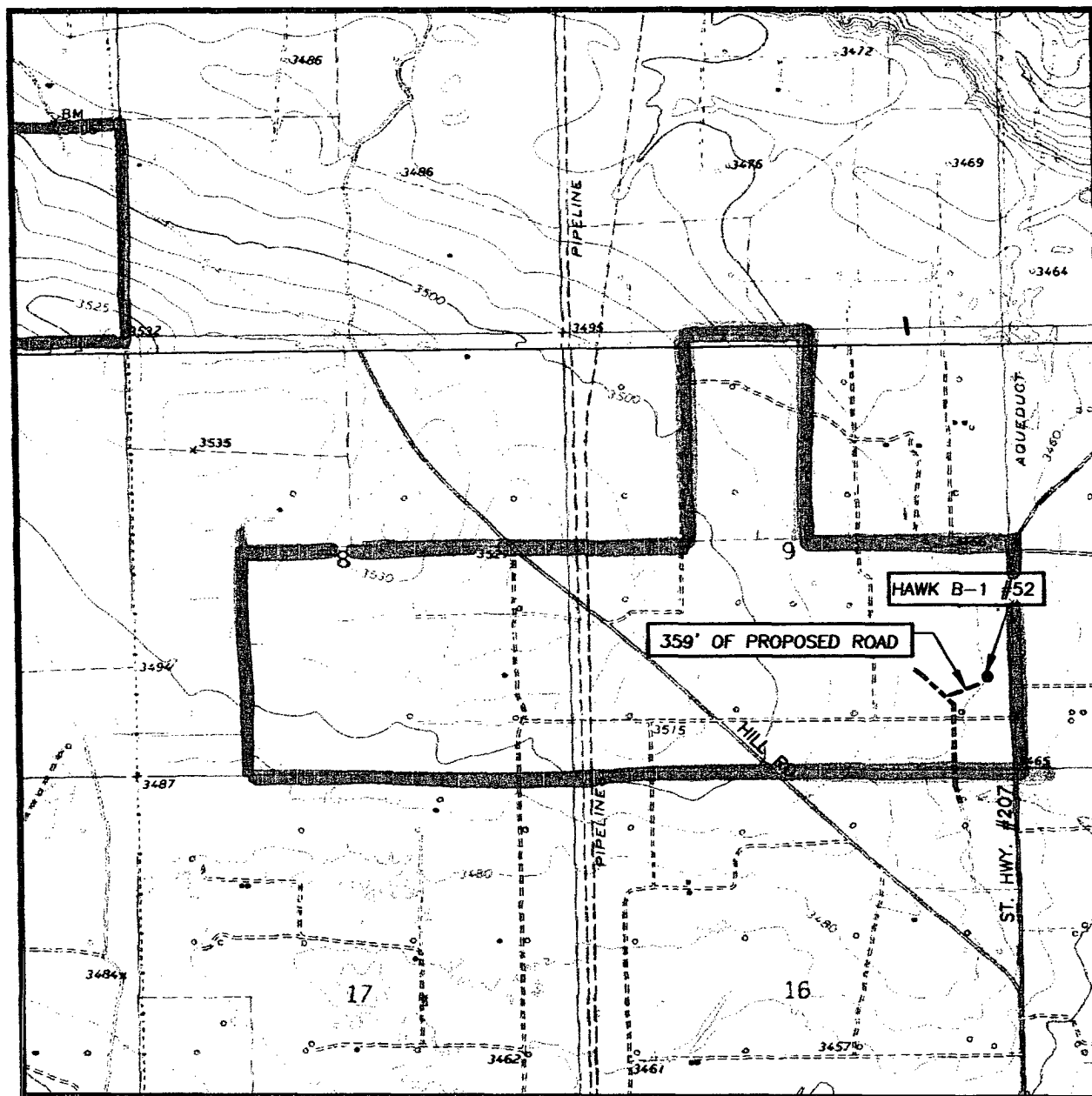


SEC. 9 TWP. 21-S RGE. 37-E
SURVEY N.M.P.M.
COUNTY LEA
DESCRIPTION 1150' FSL & 330' FEL
ELEVATION 3471'
OPERATOR APACHE CORPORATION
LEASE HAWK B-1



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

LOCATION VERIFICATION MAP



SCALE: 1" = 2000'

SEC. 9 TWP. 21-S RGE. 37-E

SURVEY N.M.P.M.

COUNTY LEA

DESCRIPTION 1150' FSL & 330' FEL

ELEVATION 3471'

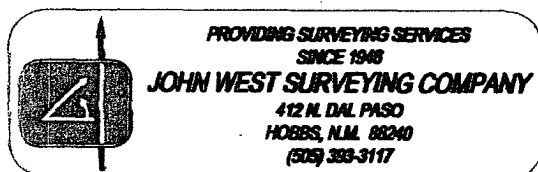
OPERATOR APACHE CORPORATION

LEASE HAWK B-1

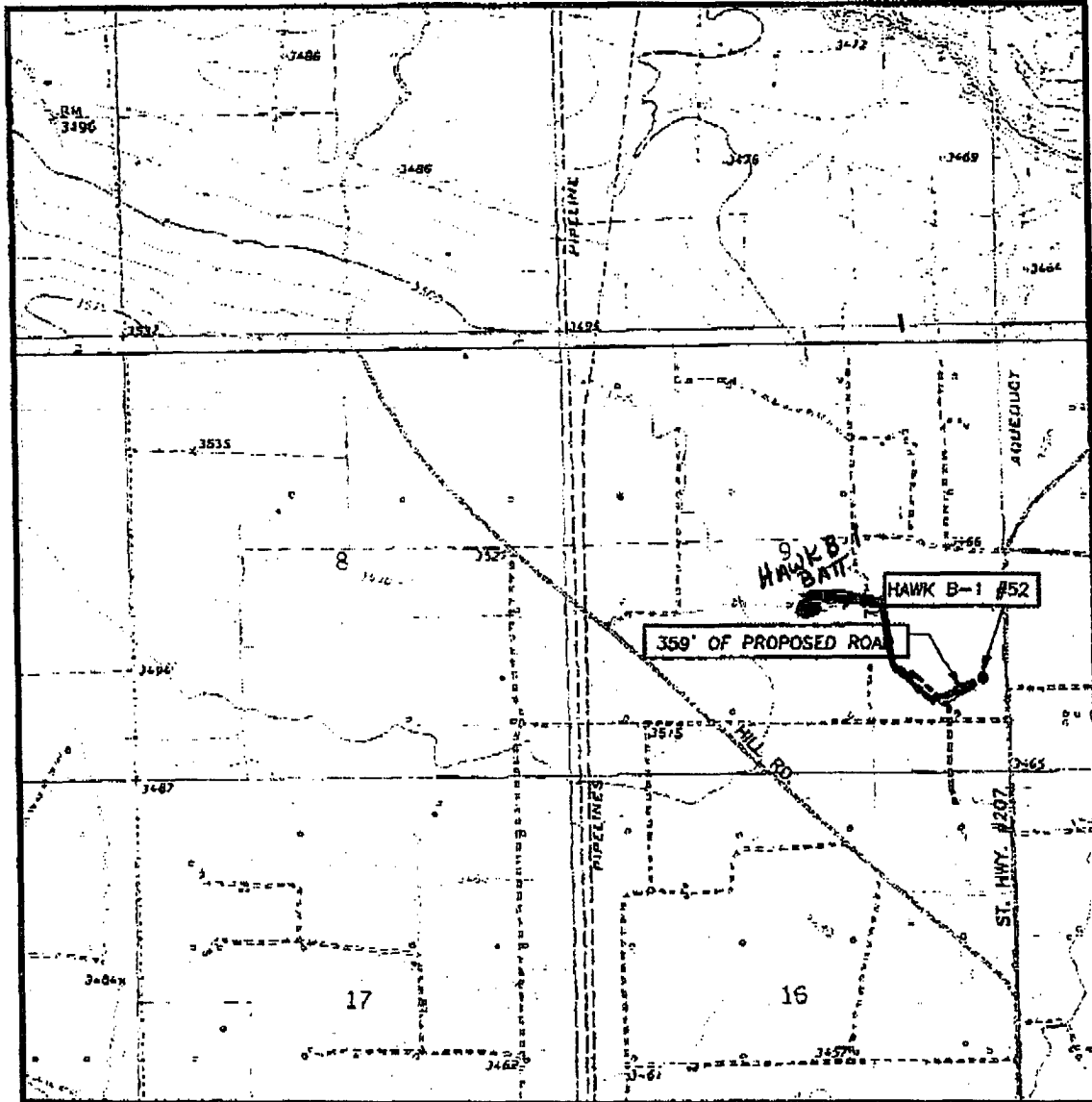
U.S.G.S. TOPOGRAPHIC MAP
EUNICE, N.M.

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

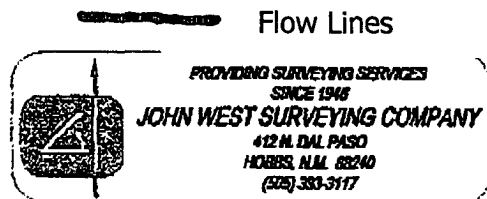
 LEASE BOUNDARY



LOCATION VERIFICATION MAP



SCALE: 1" = 2000'

CONTOUR INTERVAL:
HOBBS SW, N.M. - 10'
EUNICE, N.M. - 10'SEC. 9 TWP. 21-S RGE. 37-ESURVEY N.M.P.M.COUNTY LEADESCRIPTION 1150' FSL & 330' FELELEVATION 3471'OPERATOR APACHE CORPORATIONLEASE HAWK B-1U.S.G.S. TOPOGRAPHIC MAP
EUNICE, N.M.

Flow Lines

Exhibit F
Hawk B-1 #52
Township 21 South, Range 37 East, NMPM
Section 9: SESE
1150' FSL, 330' FEL
Lea County, New Mexico



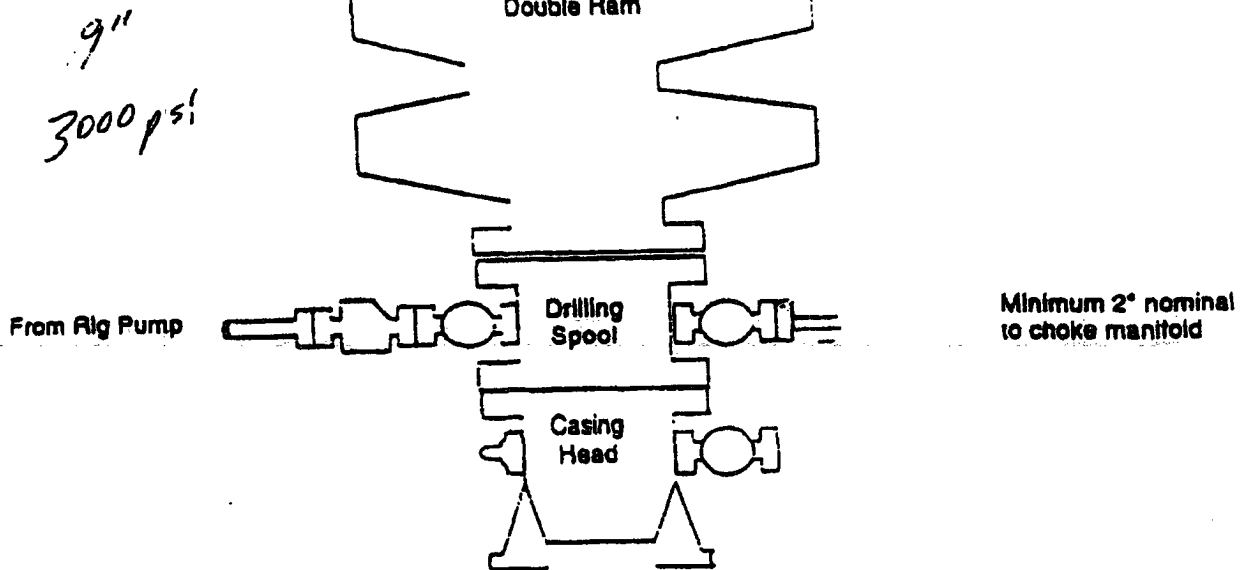
The diagram illustrates the layout of a well site. At the top, a large rectangular area is labeled "OUTSIDE PIT" with a width of 100'. Inside this area is a smaller rectangle labeled "INSIDE PIT". Below the pits, a horizontal line indicates a depth of 5' DEEP. To the right of the pits, a note states "RESERVE SHOULD BE PUSHED OUT". Below the 5' DEEP line, a horizontal line indicates a depth of 10'. Further down, a horizontal line indicates a depth of 20'. The main horizontal layout includes two "MUD PUMP" units on the left, followed by a "RIG" unit 100' long. To the right of the rig is a "BOOM" unit 100' long. Below the rig and boom, a "DOGHOUSE" structure is shown, with a vertical dimension of 120'. To the left of the doghouse is a "WATER TANK" with a height of 10'. To the right of the doghouse are "PIPE RACKS". Below the boom, a "CELLAR 4X6X4 BOX" is indicated, with a note: "(Cellar should not be dug with dozer)". A vertical dimension of 40' is shown on the right side of the diagram.

Location Specs

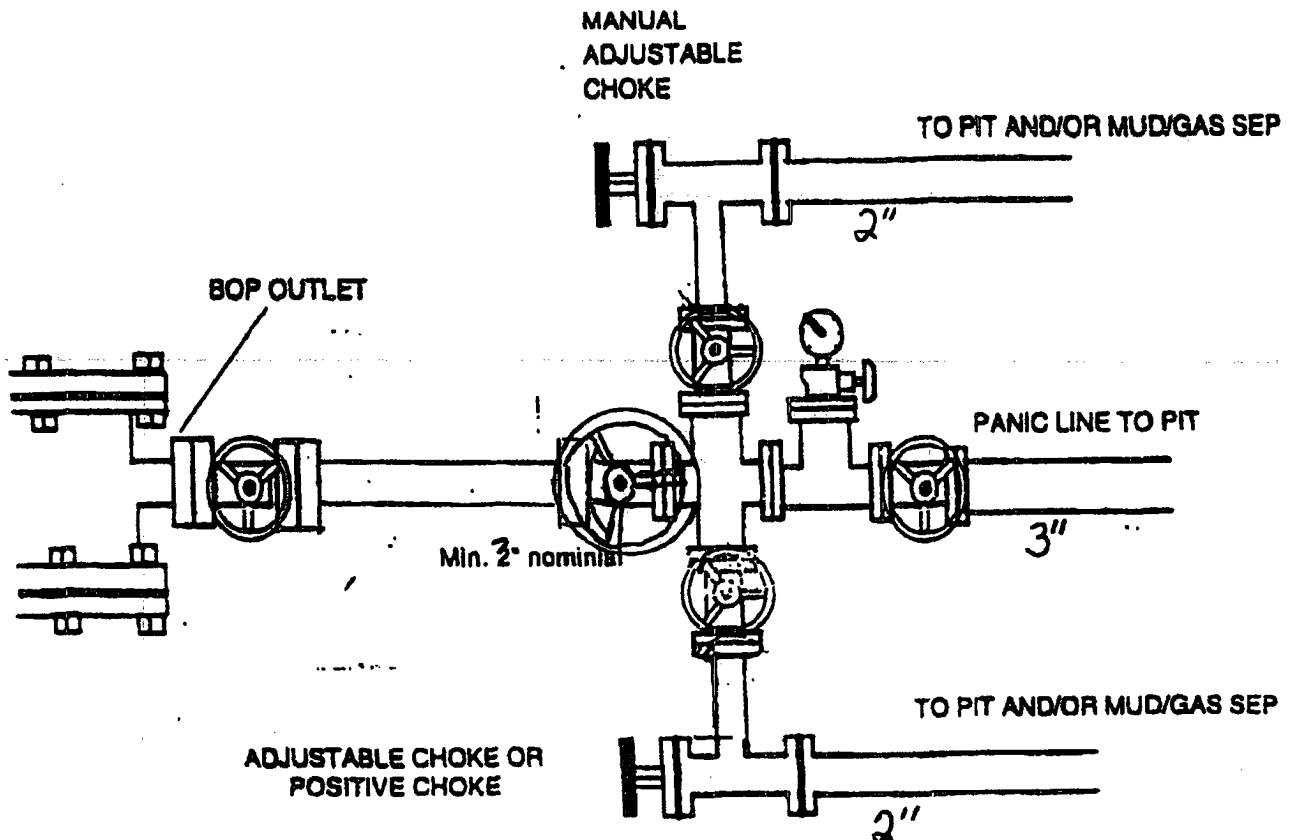
BOP Schematic

*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.



Choke Manifold Schematic



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

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: <u>Apache Corporation (0873)</u> Telephone: <u>(918)-491-4801</u> e-mail address: <u>terry.gilbert@apachecorp.com</u>		
Address: <u>6120 S. Yale Ave., #1500, Tulsa, OK 74136</u>		
Facility or well name: <u>HAWK B-1 # 52</u>	API #: <u>30-025-37998</u>	U/L or Qtr/Qtr <u>P</u> Sec <u>9</u> T <u>21S</u> R <u>37E</u>
County: <u>Lea</u>	Latitude <u>32° 29' 21.13" N</u>	Longitude <u>103° 09' 36.17" W</u> NAD: 1927 <input checked="" type="checkbox"/> 1983 <input type="checkbox"/>
Surface Owner: Federal <input type="checkbox"/> State <input type="checkbox"/> Private <input checked="" type="checkbox"/> Indian <input type="checkbox"/>		
Pit		
Type: Drilling <input checked="" type="checkbox"/> Production <input type="checkbox"/> Disposal <input type="checkbox"/> Workover <input type="checkbox"/> Emergency <input type="checkbox"/> Lined <input type="checkbox"/> Unlined <input type="checkbox"/> Liner type: Synthetic <input type="checkbox"/> Thickness _____ mil Clay <input type="checkbox"/> Pit Volume _____ bbl		
Below-grade tank		
Volume: _____ bbl Type of fluid: _____ Construction material: _____ Double-walled, with leak detection? Yes <input type="checkbox"/> 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	(20 points)
	<u>50 feet or more, but less than 100 feet</u>	(10 points)
	100 feet or more	(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	(20 points)
	<u>No</u>	(0 points)
Distance to surface water: (horizontal distance to all wetlands, playas, irrigation canals, ditches, and perennial and ephemeral watercourses.)	Less than 200 feet	(20 points)
	200 feet or more, but less than 1000 feet	(10 points)
	<u>1000 feet or more</u>	(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 you 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: <u>WE WILL BE UTILIZING A CLOSED LOOP SYSTEM CONSISTING OF STEEL PITS AND COMPLETE HAUL OFF OF ALL LIQUIDS AND SOLIDS.</u>

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: 5-16-06
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: PETROLEUM ENGINEER Signature: _____ Date: JUL 10 2006