

UNITED STATES
DEPARTMENT OF THE INTERIOR

GEOLOGICAL SURVEY

API 30-039-21299

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK

DRILL ☒DEEPEN ☐PLUG BACK ☐

b. TYPE OF WELL

OIL
WELL ☐GAS
WELL ☒

OTHER

SINGLE
ZONE ☐MULTIPLE
ZONE ☒

2. NAME OF OPERATOR

Amerada Hess Corporation, Att: Drilling Services

3. ADDRESS OF OPERATOR

P.O. Box 2040, Tulsa, Oklahoma 74102

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)*

At surface 1850' FSL and 1200' FWL

At proposed prod. zone

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

Est. 20 miles W of Lindrith, New Mexico

15. DISTANCE FROM PROPOSED*

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

1280'

16. NO. OF ACRES IN LEASE

2565.64

17. NO. OF ACRES ASSIGNED
TO THIS WELL

5/320 to Dakota & 160 to Pictured C

18. DISTANCE FROM PROPOSED LOCATION*

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

4000'

19. PROPOSED DEPTH

6,800'

20. ROTARY OR CABLE TOOLS

Rotary

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

Est. 6590' Gr. Elev. (Proration Unit S/2 Sec. 29)

22. APPROX. DATE WORK WILL START*

July 15, 1976

23.

PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12-1/4"	9-5/8"OD	32.3#	350'+/-	250 sx. and circ.
7-7/8"	5-1/2"OD	15.5#	6800'+/-	750 sx. & est. top @ surface.

Plan to drill a 12 1/4" hole from surface to 350', run, set and cement 9-5/8" csg. with 250 sx. cement. (circ. cement), WOC approx. 18 hrs., drill out under surface csg. with a 7-7/8" bit to a proposed TD of 6800' or a sufficient depth to test the Dakota gas zone, log well and if well indicate productive, set and cement 5 1/2"OD 15.5# new casing at 6800' w/ 750 sx. cement with a 2 stage collar in string, complete as a dual gas well.

No cores or drill stem test are anticipated.

Mud program is to use low visc. and low water loss mud out from under surface csg. to TD with visc. 60/70 for logging.

Blowout equipment program, 12 point surface usage plan, location maps, palts and drilling rig layout plan to follow under separate cover.

For not dedicated

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, 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 prevention program, if any.

24.

SIGNED

E. L. Higgins

TITLE

Supervisor,

Adm. Serv.

DATE

May 4, 1976

(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

JUN 4 1976

APPROVED BY

TITLE

OIL CON. COM.
DIST 3

DATE

CONDITIONS OF APPROVAL, IF ANY:

Old

*See Instructions On Reverse Side

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN TRIPPLICATE*
(Other instructions on reverse side)

Form approved.
Budget Bureau No. 42-R1424.

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals.)

1. <input type="checkbox"/> OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER		5. LEASE DESIGNATION AND SERIAL NO. Lease Contract #11	
2. NAME OF OPERATOR Amerada Hess Corporation, Att: Drilling Services		6. IF INDIAN, ALLOTTEE OR TRIBE NAME Jicarilla Apache	
3. ADDRESS OF OPERATOR P.O. Box 2040, Tulsa, Oklahoma 74102		7. UNIT AGREEMENT NAME	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface Amended to: 1850' FSL and 1500' FWL		8. FARM OR LEASE NAME J. Apache "B"	
14. PERMIT NO.		9. WELL NO. 16	
15. ELEVATIONS (Show whether DF, RT, GR, etc.) Amended to: Gr. Elev. 6595'		10. FIELD AND POOL, OR WILDCAT Pictured Cliffs	
		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Sec. 29, T24N, R5W	
		12. COUNTY OR PARISH Rio Arriba	
		13. STATE N. Mex.	

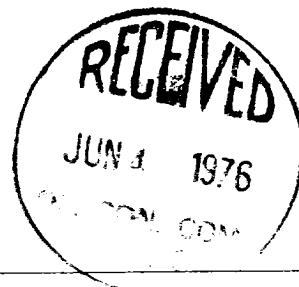
16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(Other) <input type="checkbox"/>	

(Other) Amend location footage & Elev. ☒ (NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Sundry Notice and Report is to amend footage and ground elevation as submitted on original Form 9-331C "Application for Permit to Drill" dated May 4, 1976.



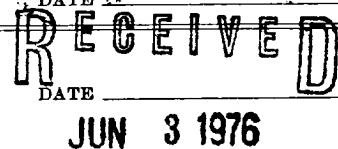
18. I hereby certify that the foregoing is true and correct

SIGNED E. Griffin TITLE Supervisor, Drlg. Adm. Serv. DATE May 28, 1976

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:



*See Instructions on Reverse Side

U. S. GEOLOGICAL SURVEY
DURANGO, COLO.

NEW MEXICO OIL CONSERVATION COMMISSION
WELL LOCATION AND ACREAGE DEDICATION PLAT

Form C-102
Supersedes C-128
Effective 1-1-65

All distances must be from the outer boundaries of the Section.

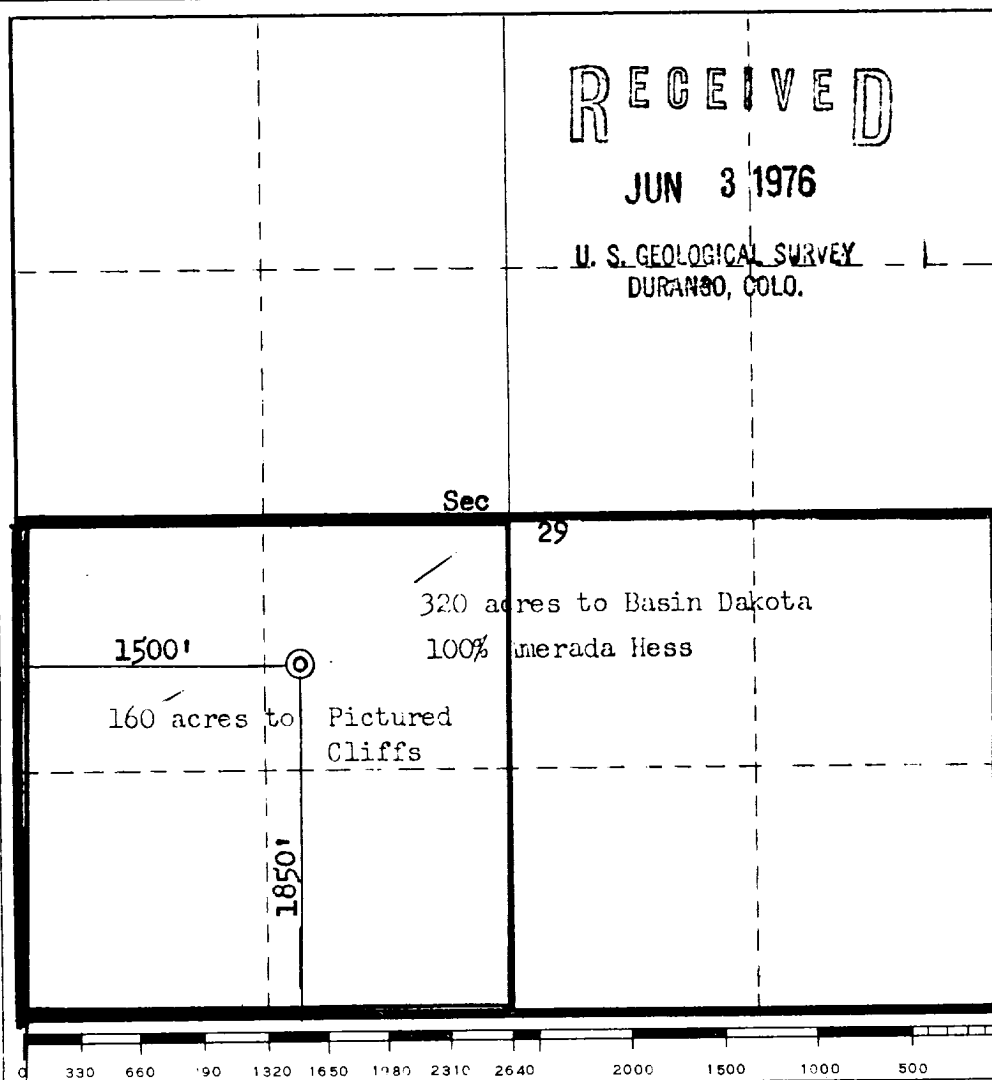
Operator Amerada Hess Corporation		Lease Jicarilla Apache		Well No. B-16
Unit Letter K	Section 29	Township 24N	Range 5W	County Rio Arriba
Actual Footage Location of Well: 1850 feet from the South line and 1500 feet from the West line				
Ground Level Elev. 6595	Producing Formation Basin Dakota-Pictured Cliffs		Pool Basin/Dakota-Pictured Cliffs	Dedicated Acreage: see below Acres

1. Outline the acreage dedicated to the subject well by colored pencil or hatchure marks on the plat below.
2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
3. If more than one lease of different ownership is dedicated to the well, have the interests of all owners been consolidated by communitization, unitization, force-pooling, etc?

☐ Yes ☐ No If answer is "yes," type of consolidation NA

If answer is "no," list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if necessary.) NA

No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, forced-pooling, or otherwise) or until a non-standard unit, eliminating such interests, has been approved by the Commission.



CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.

E. Griffin
Name
E. Griffin

Position
Supervisor, Drlg. Adm. Serv.

Company
Amerada Hess Corporation

Date
May 18, 1976

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 knowledge and belief.

Date Surveyed

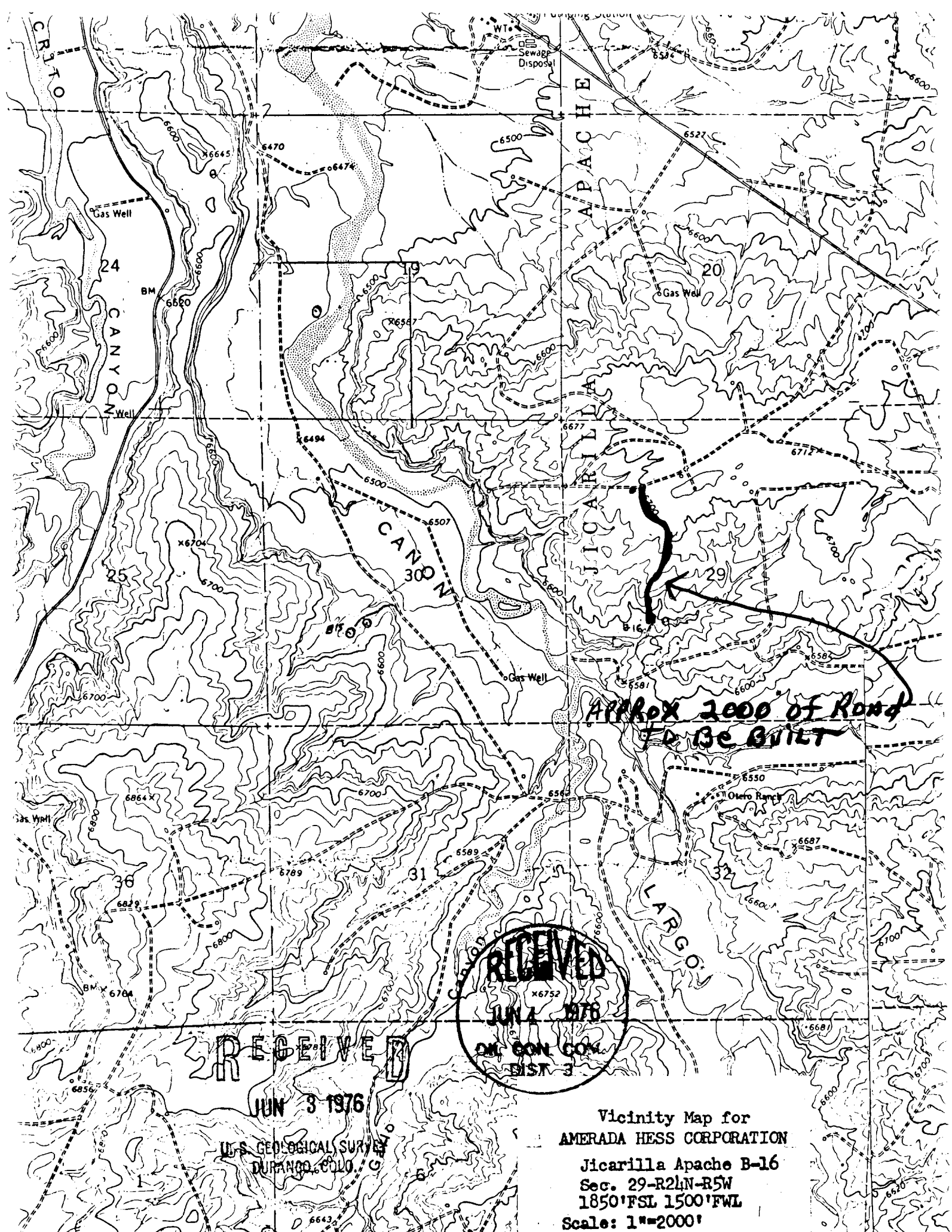
May 12, 1976

Registered Professional Engineer and/or Land Surveyor

Fred B. Kerr, Jr.
Fred B. Kerr, Jr.

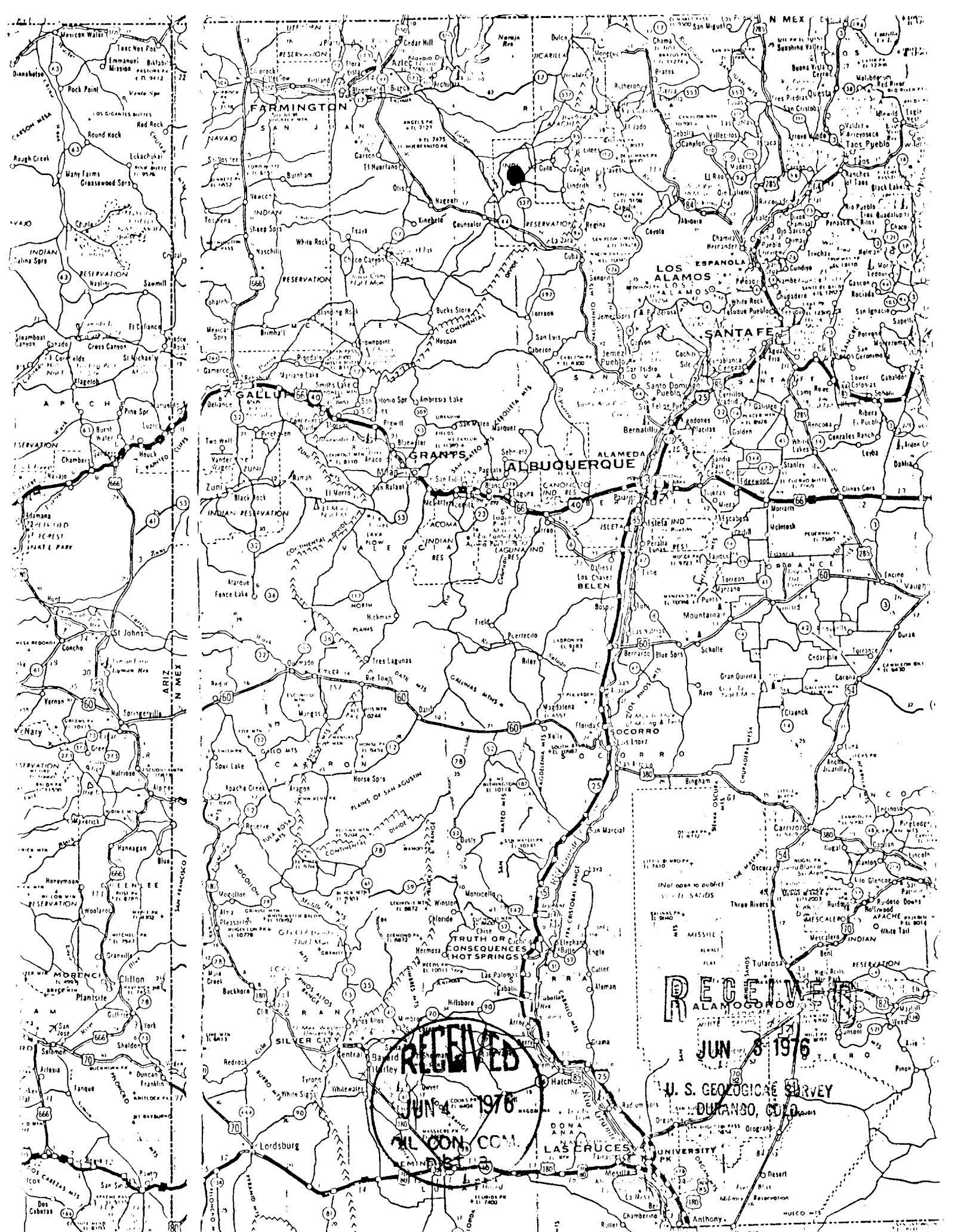
Certificate No.

3950



Vicinity Map for
AMERADA HESS CORPORATION

Jicarilla Apache B-16
Sec. 29-R24N-R5W
1850' FSL 1500' FWL
Scale: 1"=2000'



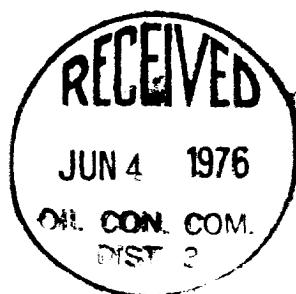
AMERADA HESS CORPORATION

J. Apache "B" #16

Sec. 29, T24N, R5W, Rio Arriba County, New Mexico

12 Point Surface Usage Plan

1. Location of well is approximately 20 miles West/Northwest of Lindrith, N.M. and estimated 12 miles to State Hiway 44. Attached maps will show existing lease roads in the area.
2. Attached are maps and profile USGS topographic/county road map showing proposed well location location and access lease road for the well and also a proposed 2000' road to be built off of lease road to well site.
3. Plat showing all existing locations within 1 mile radius of proposed well is attached.
4. No lateral road to other well locations is planned at this time.
5. No tank battery or flow lines are on location at this time but will be installed near well site if well is a producer.
6. Drilling water purposes will come from Largo Canyon water pit estimated 6 miles from location and we will haul water in by trucks.
7. A reserve pit of adequate size will be used to handle waste disposal and a trash pit for garbage and trash disposal.
- 8 &
9. No camp or air strip will be constructed.
10. Plat showing rig layout plan is attached.
11. Restoration of the surface will include filling and levelling of all pits as soon as possible, grading and levelling of the location in same manner. The surface will be cleaned and reseeded according to instructions from the proper agency for adequacy.
12. Well site location is level and on a flat surface with natural gullies a short distance from location pad. No ditches or drainage canal will be cut for location drainage.



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JICARILLA APACHE "B" No. 16

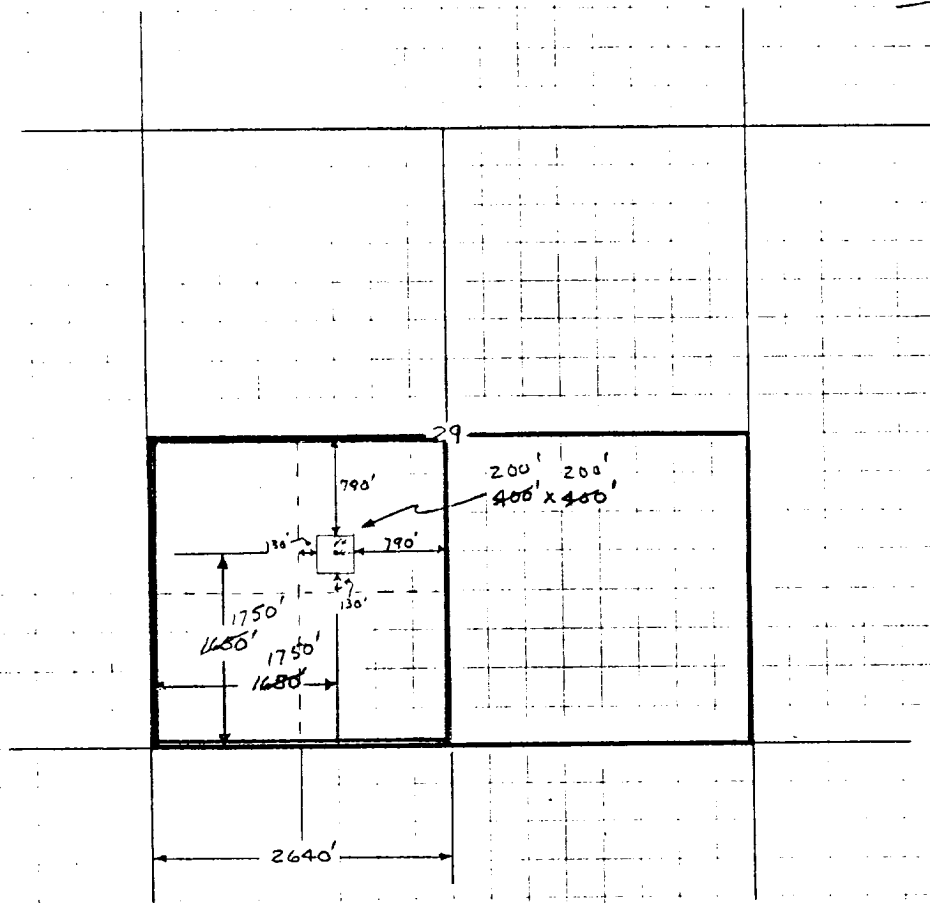
BASIN DAKOTA & PICTURED CLIFF APPROVED GAS WELL LOCATION.

LOC. SW/4, SEC. 29, T24N, R5W; RIO ARriba CO., N.MEX.

1750'
1680' FSL & 1750' FWL OF SEC. 29

Staked 1500' FWL & 1850' FSL

Exceptional Location



160
AC.

ASSIGNED ACREAGE FOR A GAS WELL
IN THE PICTURED CLIFF SS.

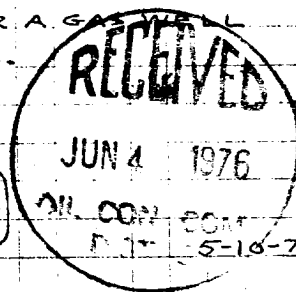
320
AC.

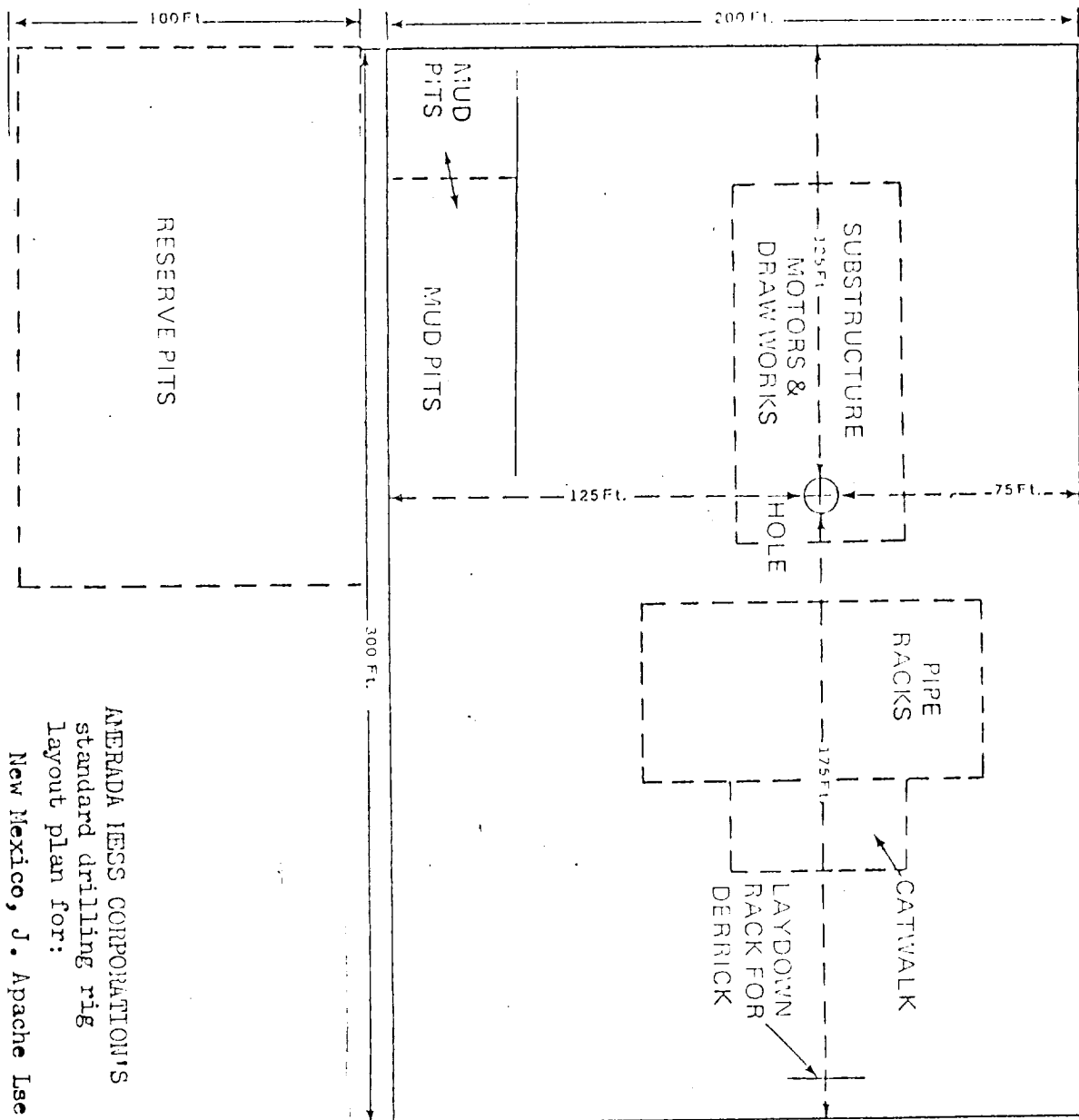
ASSIGNED ACREAGE FOR A GAS WELL
IN THE BASIN DAKOTA SS.

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DURANGO, COLO.





AMERADA HESS CORPORATION'S
standard drilling rig
layout plan for:

New Mexico, J. Apache Lse. Drilling Wells



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DURANGO, COLO.

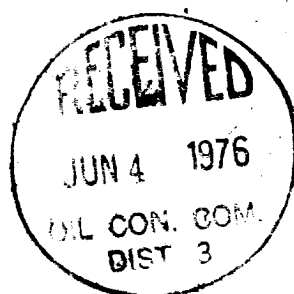
AMERADA HESS CORPORATION

STANDARD PROCEDURES

FOR

BLOW OUT PREVENTION

AND CONTROL



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DURANGO, COLO.

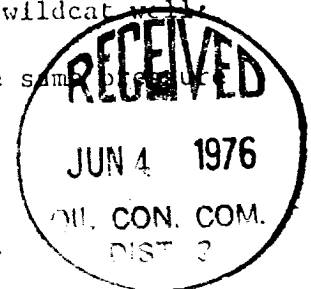
EQUIPMENT

The following blow out prevention, monitoring, and control equipment is to be installed on all AHC operated drilling wells:*

1. Minimum of 2 ram type B.O.P.'s with pipe rams in lower preventor and blind rams in the upper preventor with a flow cross flanged between. A third B.O.P. should be required when operating with a tapered drill string. The B.O.P.'s should have at least the same pressure rating as the well head on which they are installed. The preventors are to be operated hydraulically by an adequate opening and closing system. Manual hand wheels with extensions are to be attached to the B.O.P.'s.
2. 1-bag type B.O.P., hydraulically operated as above, with an element in good condition, and to be of at least the same pressure rating as the ram type B.O.P.--up to 10,000 PSI.
3. B.O.P. manifold with hydraulic and manual inside valves and with two choke lines and one open line with proper block valves. All piping and valves to be of at least the same pressure rating as the B.O.P. stack.
4. Pit level monitoring device with at least one read out device at the driller's station.
5. Flow rate monitoring device with pump stroke counters connected to both pumps and with automatic trip fill up device with total read out device at the driller's station.

In addition to the equipment listed above, the following equipment is to be installed on any AHC operated drilling well that expects to drill an abnormally pressured zone, or is considered a wildcat well:

6. Hydraulically operated adjustable choke of at least the same pressure rating as the manifold to which it is connected.



7. Adequate mud gas atmospheric separator and mechanical degasser.
8. Automatic mud weighing device with chart read out recording at least the return mud weight.
9. Chart read out of the flow rate, and pit volume totalizer devices listed above.
10. At least a portable mud gas detector and shale density kit, or when conditions or expectations warrant--a complete mud logging unit is to be installed.
11. Adequate mixing facilities and storage for bulk barite materials.

*Items 1 through 5 maybe subject to some variations, as unusual conditions arise.



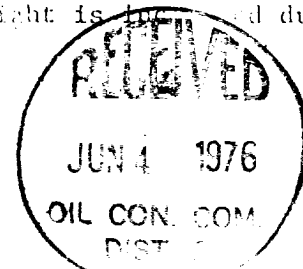
PRECAUTIONS

1. Properly rated and perfectly operating blow out preventors and control equipment are installed on the well.
2. At least the following devices are installed and monitored: Pit volume totalizer, flow rate recorder, and trip fill up counter. In addition, pump strokes, pump pressure, mud weight, and bit weight are analyzed for unusual values. On some of the more complex wells, an adjustable choke, degasser, mud weighing device, mud logging unit and bulk barite facilities will also be installed and monitored.
3. Drilling breaks are checked for flow at 3 feet and 10 feet into the break. If the break is of considerable magnitude, it is circulated out, especially if drilling in the proximity of a transition zone.
4. Gas cut mud is considered as a warning, and its cause and extent examined to satisfaction.
5. The hole is filled each 5 stands while pulling out of the hole and pump strokes and pit level decrease are measured and compared against calculated displacement values.
6. Formation pore pressures and fracture pressures are calculated from electric logs and used to aid in proper casing seat selection and mud weight ranges.



PREPARATIONS

1. Maximum safe pressure values are calculated and made known for surface equipment and all casing strings, along with fracture pressure at deepest casing shoe or weakest exposed formation.
2. Conduct regularly scheduled (every 5 - 7 days or as conditions warrant) pressure tests of blow out preventers and control equipment to maximum working pressure with clear water. Check flange bolts for tightness.
3. Work blow out preventors, hydraulic valves, and adjustable choke every trip and pump through choke manifold every other trip.
4. Have choke lines tied into a stack (atmospheric) separator.
5. Establish who has the responsibility for detecting a kick and shutting the well in. This should include checking fill up on trips and watching the hole while other operations are being conducted.
6. Establish who will do what during the killing operation and explain to all why each job is important to the success of killing the well.
7. Conduct surprise drills on kick detection and shut in procedure.
8. For maximum safety it is important that pipe rams be placed in the bottom ram type preventor so the well can be shut in if something comes out in the upper section of the B.O.P. stack or if it is necessary to change rams.
9. Use clean hydraulic oil in the accumulator unit and check level weekly.
10. Each person who is to operate the hydraulic adjustable choke should be completely familiar with the mechanics and operation of the choke.
11. In order to provide necessary data for the killing operation, pump pressures are recorded each tour for pump speeds of 20 and 30 strokes per minute. This data is also repeated if the mud weight is changed during a tour.

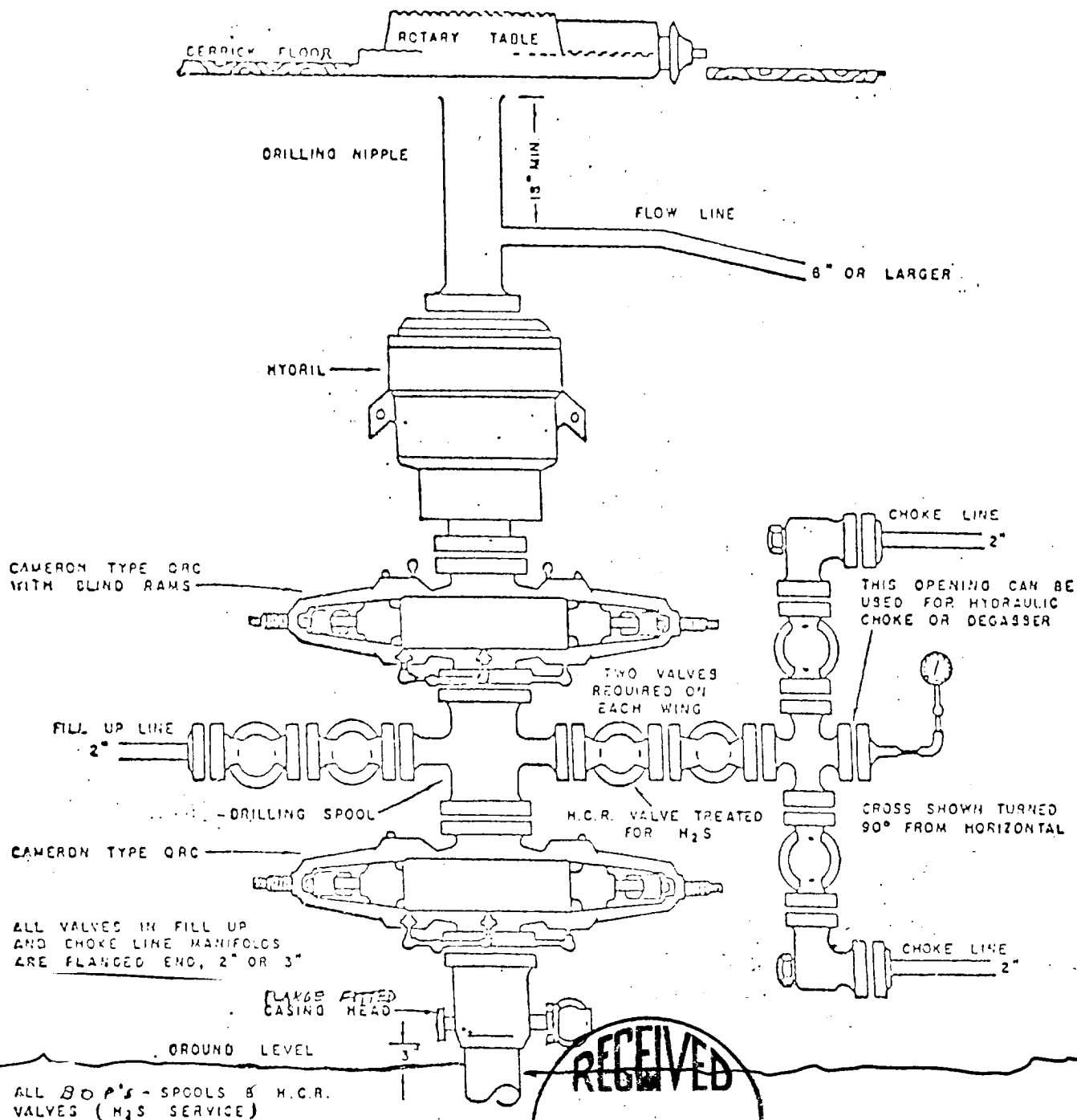


DETECTION

The importance of rapid kick detection and fast shut in cannot be overstressed. Kicks can be detected by the following indications, or combinations thereof:

1. Increase in surface pit volume as detected by pit volume totalizer or a man on the pits.
2. Increase in return mud flow rate as detected by the flow rate monitor.
3. Decrease in drill pipe pressure, caused by oil, gas, or salt water entering the annulus and unbalancing the hole.
4. Gas or salt water cut mud returns caused by a kelly cut, shale gas, drilled pore volume, trip bottoms up, or drilling a high pressure-low volume formation.
5. Rate of penetration increase, especially if drilling in the proximity of an abnormally pressured zone.
6. Hole swabbing on trips as detected by the hole taking an insufficient amount of mud for the calculated pipe displacement, or the occurrence of a high concentration of gas upon circulating bottoms up after a trip.





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 JUN 4 1976
 OIL CON. CO.
 DIST. 2

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AMERADA HESS CORPORATION'S

JUN 3 1976

LAYOUT PLAN FOR REQUIRED
 BLOWOUT PREVENTER
 ASSEMBLY

U. S. GEOLOGICAL SURVEY
 DURANGO, COLO.