

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK DRILL <input checked="" type="checkbox"/> DEEPEN <input type="checkbox"/> PLUG BACK <input type="checkbox"/>		5. LEASE DESIGNATION AND SERIAL NO. NM-1419	
b. TYPE OF WELL OIL WELL <input checked="" type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER <input type="checkbox"/> SINGLE ZONE <input type="checkbox"/> MULTIPLE ZONE <input checked="" type="checkbox"/>		6. IF INDIAN, ALLOTTEE OR TRIBE NAME Jicarilla Apache	
2. NAME OF OPERATOR Anerada Hess Corporation, Attn: Drilling Services		7. UNIT AGREEMENT NAME (lease Contract #9)	
3. ADDRESS OF OPERATOR P.O. Box 2040, Tulsa, Oklahoma 74102		8. FARM OR LEASE NAME J. Apache "A"	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)* At surface 1490' FSL and 1820' FEL At proposed prod. zone same as surface		9. WELL NO. 7	
14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE* 20 miles NW of Lindrith, New Mexico		10. FIELD AND POOL OR WILDCAT Otero/Gallup: Basin/Dakota	
15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any) Dakota 1490' Gallup 170'		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Sec. 26, T25N, R5W	
16. NO. OF ACRES IN LEASE 2560		12. COUNTY OR PARISH Rio Arriba	
17. NO. OF ACRES ASSIGNED TO THIS WELL Dakota gas 320; Gallup oil 40		13. STATE New Mex.	
18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT. est. 1320'		19. PROPOSED DEPTH 7500'	
20. ROTARY OR CABLE TOOLS Rotary		21. APPROX. DATE WORK WILL START* Sept. 25, 1975	
21. ELEVATIONS (Show whether DF, RT, GR, etc.) Ungraded 6951'			

PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12 1/4"	8-5/8"OD	24#	300' +/-	200 sx. and circ.
7-7/8"	5-1/2"OD	15.5#	7500' +/-	500 sx., est. top at 4500'

Plan to drill a 12 1/4" hole surface to 300', set and cement 8-5/8"OD 24# new casing @ 300' with 200 sx. cement (circ. cement), WOC and drill a 7-7/8" hole out under 8-5/8" surface casing to proposed TD of 7500' or a sufficient depth to test Dakota/Ganeros sands for gas, log well for proposed completions in the Dakota gas and Gallup oil zones and if log indicate productive zones, set and cement 5 1/2"OD 15.5# new casing at 7500' +/-.



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. Griggs TITLE Supv. Tech./Drlg. Adm. Serv. DATE Sept. 10, 1975
(This space for Federal or State office use)

PERMIT NO. _____ APPROVAL DATE _____

APPROVED BY _____ TITLE _____ DATE _____
CONDITIONS OF APPROVAL, IF ANY:

*See amended location
at*

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. A-7
Unit Letter J	Section 26	Township 25N	Range 5W	County Rio Arriba	

Actual Footage Location of Well:

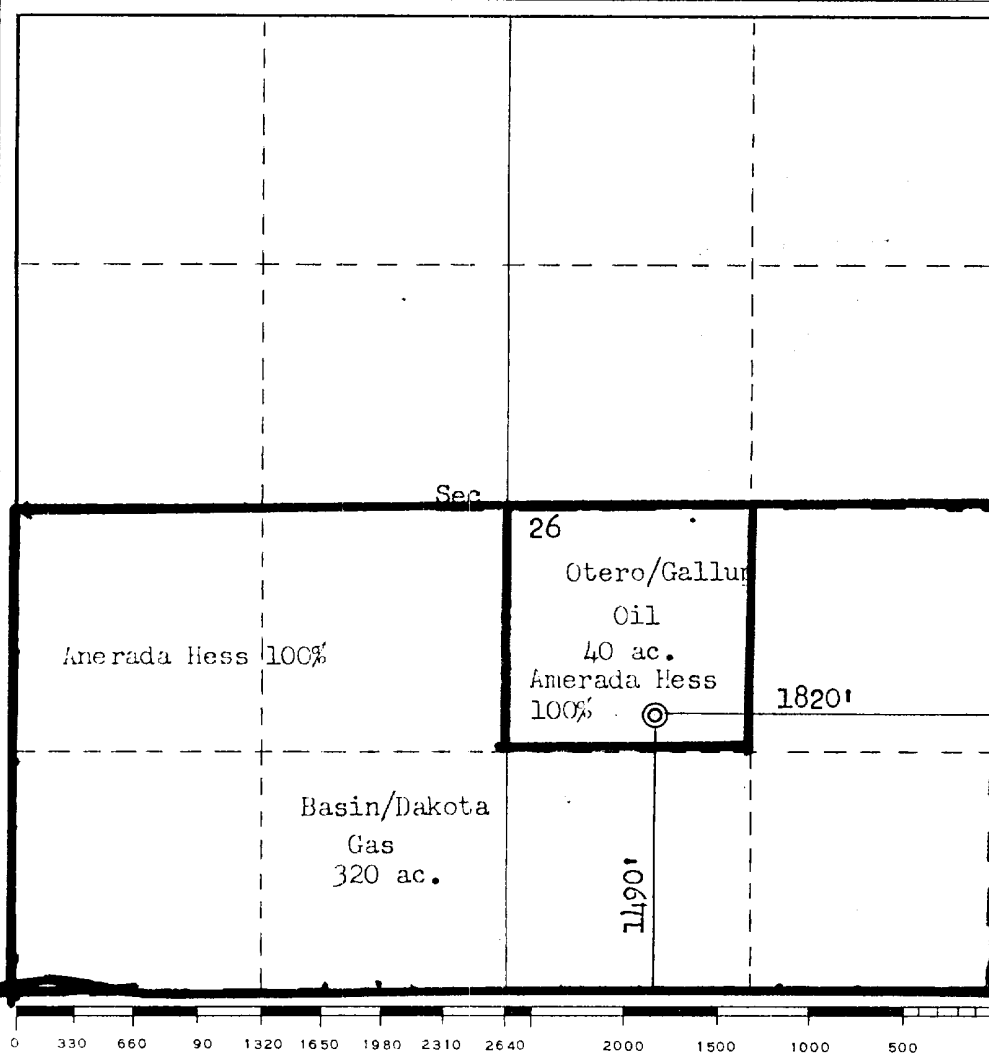
1190	feet from the South	line and	1820	feet from the East	line
Ground Level Elev. 6951	Producing Formation Dakota/Gallup		Pool Basin Dakota <i>see below Otero-Gallup</i>	Dedicated Acreage: 320 40 Acres	

1. Outline the acreage dedicated to the subject well by colored pencil or hachure 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 _____

If answer is "no," list the owners and tract descriptions which have actually been consolidated (by communitization, unitization, force-pooling, or otherwise) or until a non-standard unit, eliminating such interests, has been approved by the Commission. _____

No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, force-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
Supv. Tech./Drlg. Adm. Serv.

Company
Amerada Hess Corporation

Date
Sept. 10, 1975

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
August 27, 1975

Registered Professional Engineer and/or Land Surveyor

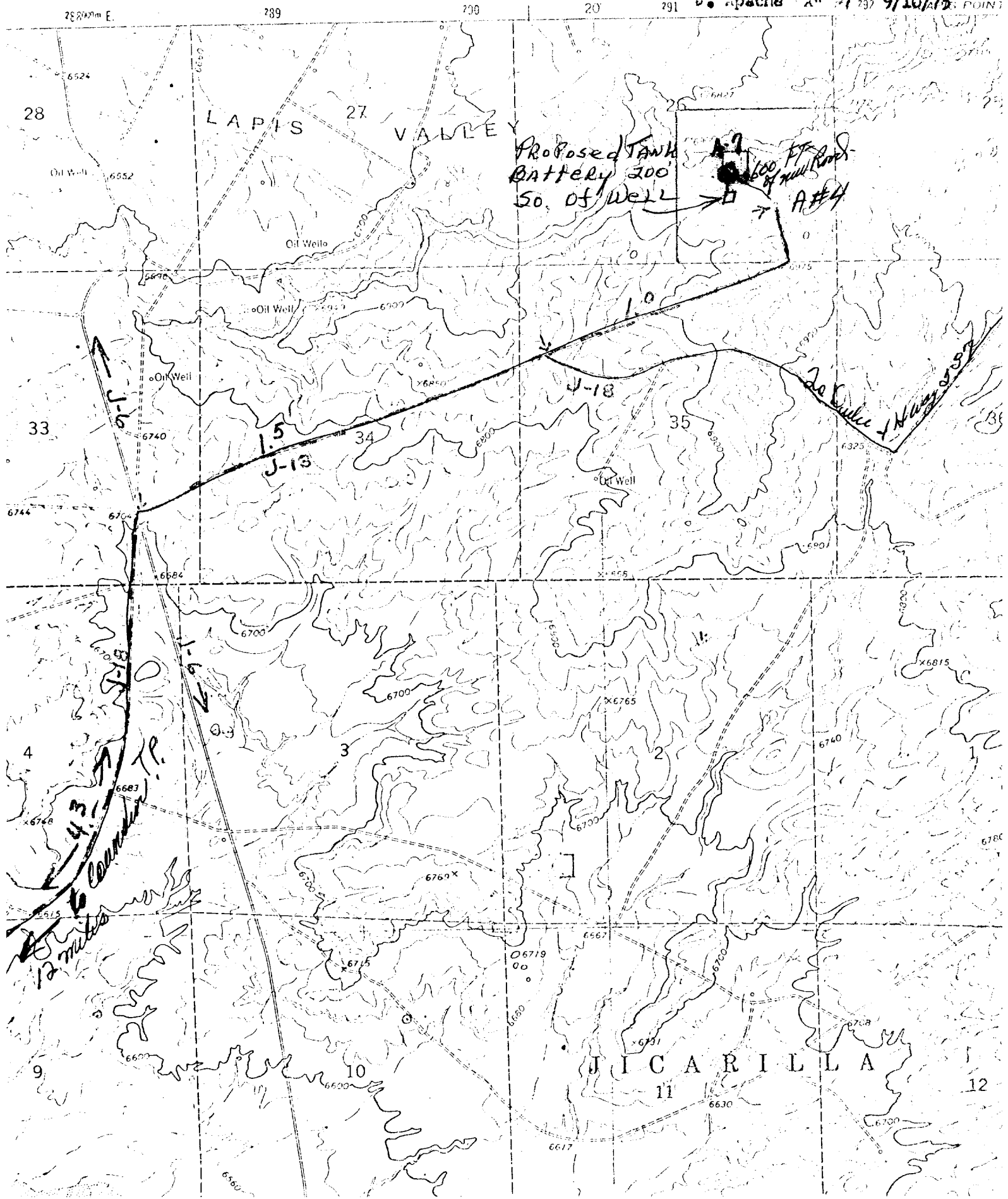
Fred B. Kern
Fred B. Kern

Certificate No.
3950

26-25N-5W
1490' E 1020' E

NEBRADA TESS CORPORATION

J. Apache "A" 7 9/10/75



10LSA
1575 SEP -8 11 30 52
DRILLING SEP-1988

- Elevation - Ground 6960' est.; KB 6973' est.

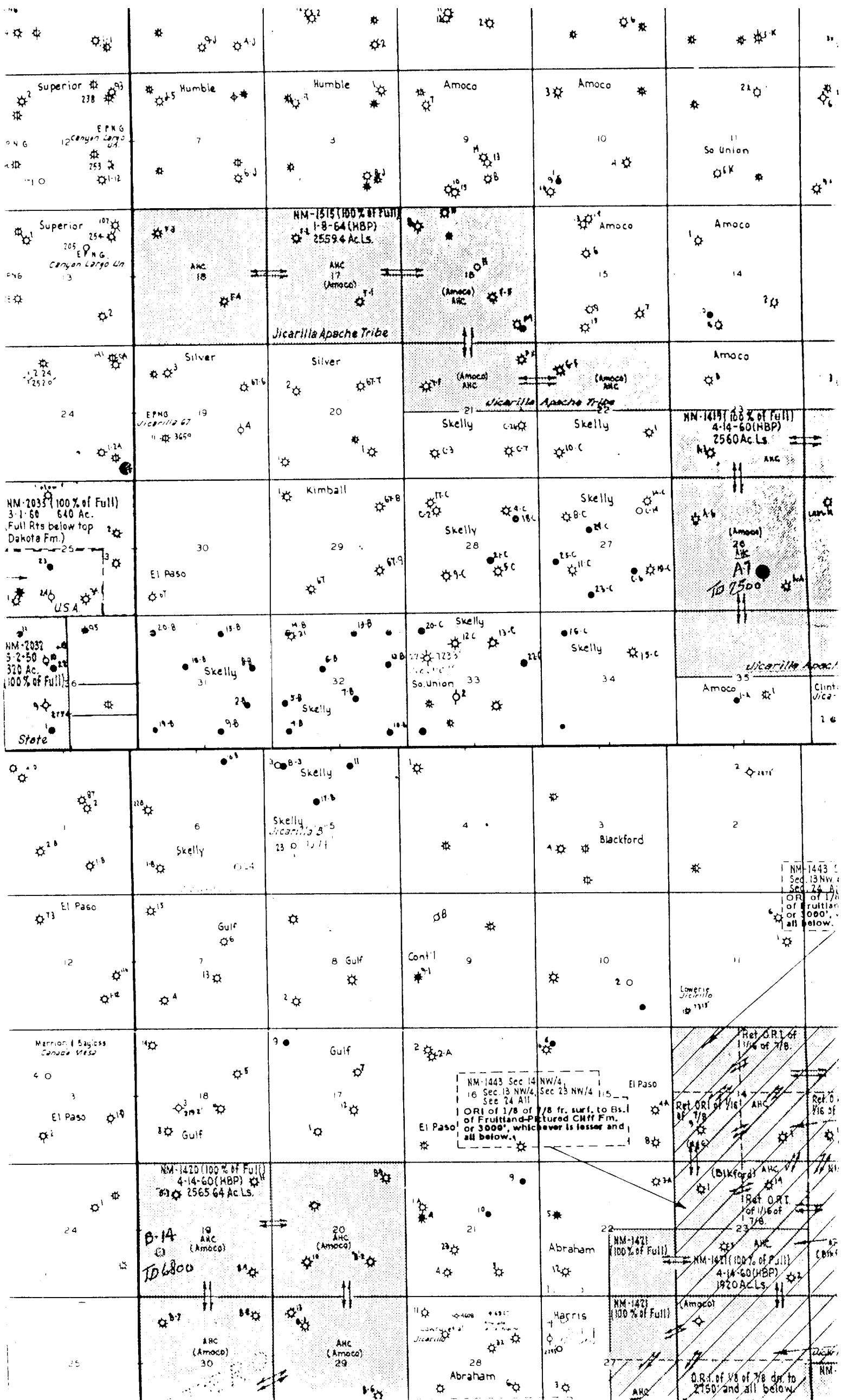
Ojo Alamo	2396'
Kirtland Fruitland	2718'
Pictured Cliffs	3081'
Lewis	3147'
Chacra	3943'
Mesaverde	4732'
Mancos	5472'
Gallup	6445'
Tocito	6808'
Sanastee	6914'
Greenhorn	7242'
Graneros	7323'
Dakota	7489'

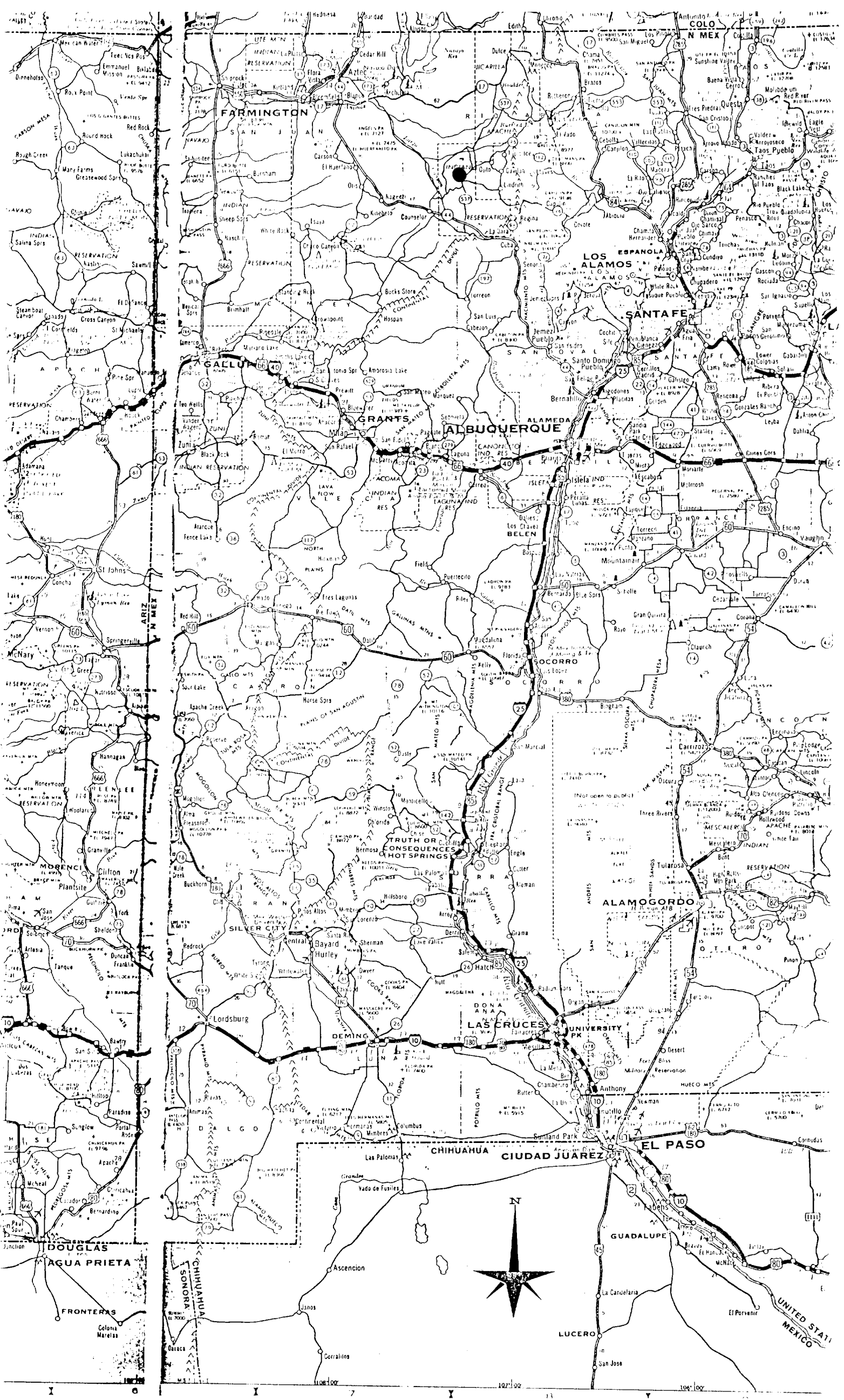
5. Sample Program:

6. Drilling Time Record:

7. Zones of Interest:

Pictured Cliffs	3081'	Gallup	6445'
Chacra	3943'	Graneros	7323'
Mesaverde	4732'	Dakota	7489'





AMERADA HESS CORPORATION

J. Apache "A" #7

Sec. 26, T25N, R5W, Rio Arriba

County, New Mexico

Sept. 10, 1975

12 Point Surface Usage Plan

1. Location of well is approximately 20 miles NW of Lindrith, New Mexico and is est. 2 miles from State Hiway 537. The attached maps will show existing lease roads in the area.
2. Attached are copies of map and profile USGS topographic/county road map showing proposed well location and access lease road for the well.
3. Plat showing all existing locations within 1/2 mile radius of proposed well is attached.
4. No lateral roads to other well locations are planned at this time.
5. Attached map shows proposed new tank battery and flow lines if well is completed.
6. Drilling water purposes will come from Largo Canyon, 7 miles Southwest by water 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 camps or air strip will be constructed.
10. Plat showing rig layout is attached.
11. Restoration of the Surface will include filling and levelling of all pits as soon as possible and grading and levelling of the location. The surface will be cleaned and reseeded according to instructions from the proper agency for adequacy.
12. The location is on a drainage divide consisting of gullies and hills and the only cuts to be made is a cut approx. $2\frac{1}{2}$ ft. deep at North and West side of location to drain well site location. Natural terrain of area will handle balance of the drainage.

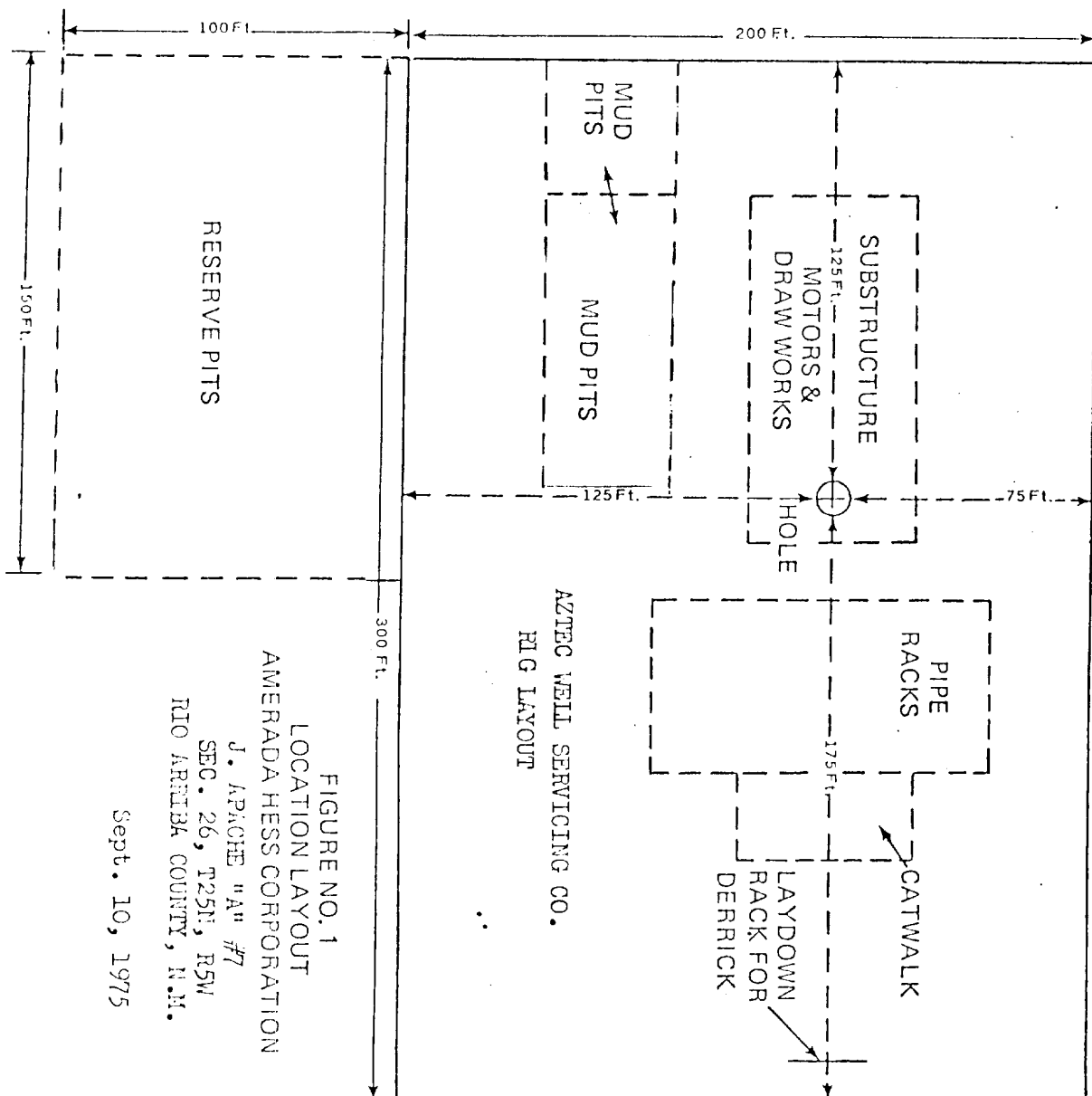


FIGURE NO. 1
 LOCATION LAYOUT
 AMERADA HESS CORPORATION
 J. APACHE "A" #7
 SEC. 26, T25N, R5W
 RIO ARriba COUNTY, N.M.

Sept. 10, 1975

SCALE: 1" = 50'

AMERADA HESS CORPORATION

STANDARD PROCEDURES

FOR

BLOW OUT PREVENTION

AND CONTROL

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:

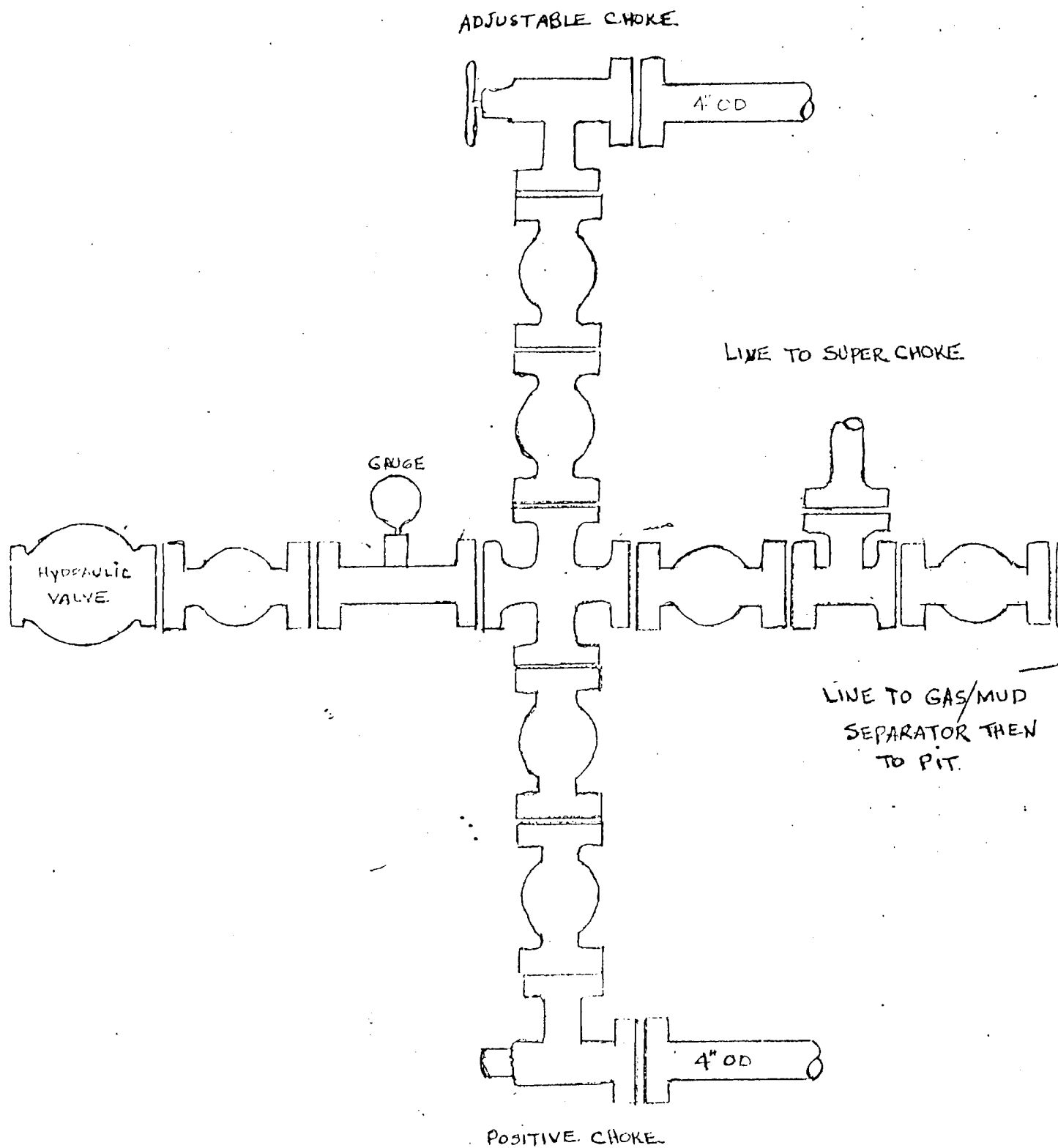
6. Hydraulically operated adjustable choke of at least the same pressure rating as the manifold to which it is connected.
7. Adequate mud gas atmospheric separator and mechanical degasser.
8. Automatic mud weighing device with chart read out recording at least the return mud weight.

(EQUIPMENT-cont'd.)

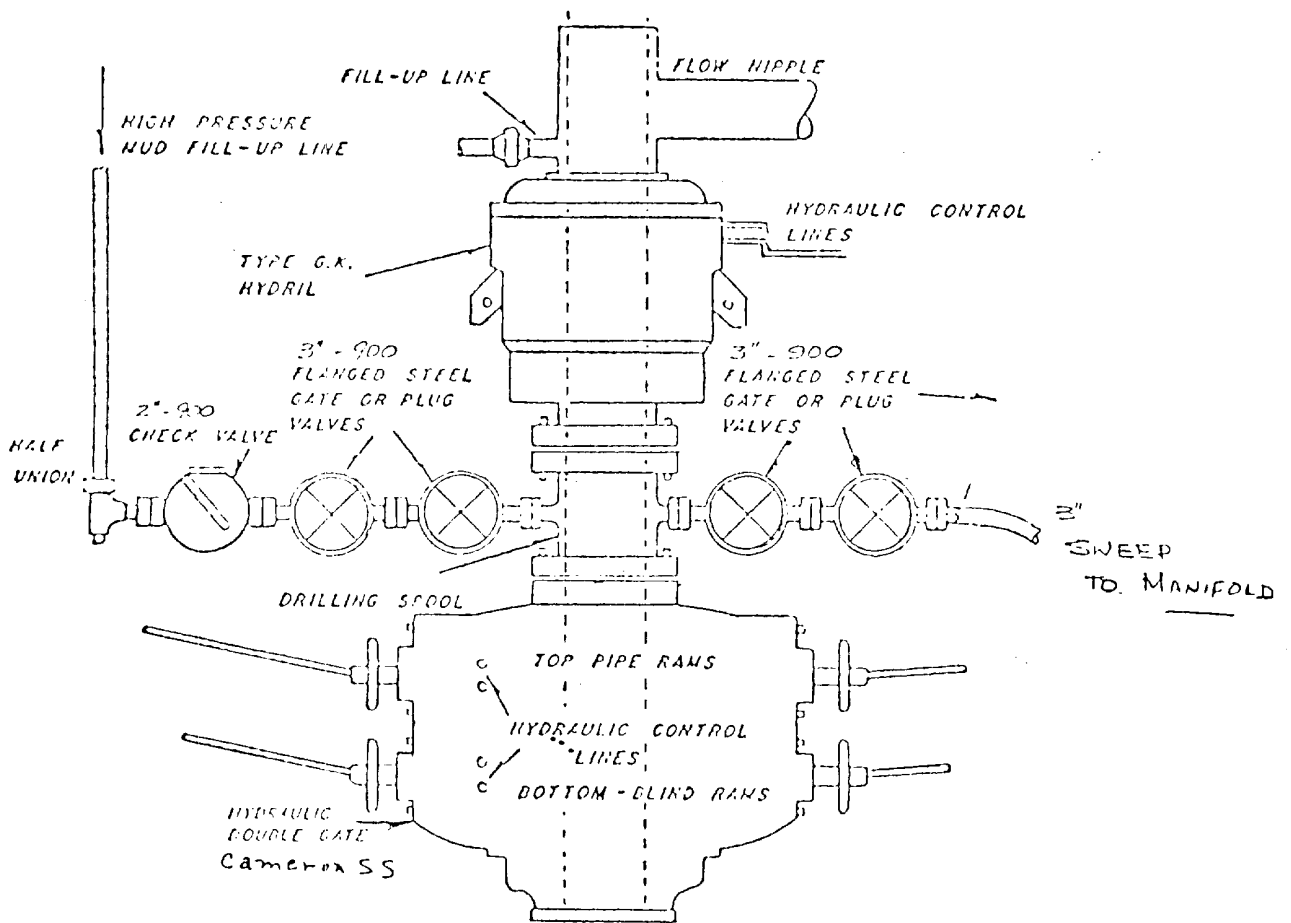
9. Chart read out of the flow rate, and pit volume totalizer devices listed above.
10. At least a portable mud gas detector and shale density kit, or when conditions or expectations warrant -- a complete mud logging unit is to be installed.
11. Adequate mixing facilities and storage for bulk barite materials.

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

CHOKE. MANIFOLD ASSEMBLY
5000 PSI W. P. 10,000



12" - 900 BOP Stack



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 valves 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 preventors 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 operations 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 procedures.
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 cuts 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 increased 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.

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN TRIPPLICATE*
(Other instructions on re-verse side)

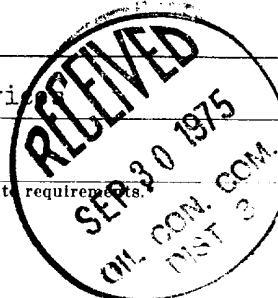
30-039-21151

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. OIL WELL <input checked="" type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER		5. LEASE DESIGNATION AND SERIAL NO. NM-1419	
2. NAME OF OPERATOR Amerada Hess Corporation, Att: Drilling Service		6. IF INDIAN, ALLOTTEE OR TRIBE NAME Jicarilla Apache	
3. ADDRESS OF OPERATOR P.O. Box 2040, Tulsa, Oklahoma 74102		7. UNIT AGREEMENT NAME (Lease Contract #9)	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.) At surface 1650' FSL and 1820' FEL		8. FARM OR LEASE NAME J. Apache "A"	
14. PERMIT NO.		9. WELL NO. 7	
15. ELEVATIONS (Show whether DF, RT, GR, etc.) Gr. 6961		10. FIELD AND POOL, OR WILDCAT Otero/Gallup: Basin/Dakota	
		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Sec. 26, T25N, 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"/>	WATER SHUT-OFF	<input type="checkbox"/>
FRACTURE TREAT	<input type="checkbox"/>	FRACTURE TREATMENT	<input type="checkbox"/>
SHOOT OR ACIDIZE	<input type="checkbox"/>	SHOOTING OR ACIDIZING	<input type="checkbox"/>
REPAIR WELL	<input type="checkbox"/>	(Other)	<input type="checkbox"/>
PULL OR ALTER CASING	<input type="checkbox"/>	REPAIRING WELL	<input type="checkbox"/>
MULTIPLE COMPLETE	<input type="checkbox"/>	ALTERING CASING	<input type="checkbox"/>
ABANDON*	<input type="checkbox"/>	ABANDONMENT*	<input type="checkbox"/>
CHANGE PLANS	<input checked="" type="checkbox"/>		

(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.) *

Amend well location as per attached plat

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

SIGNED E. Griffin TITLE Supv. Tech/Drig. Adm. Serv. DATE 9/25/75

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

OK

*See Instructions on Reverse Side

NEW MEXICO OIL CONSERVATION COMMISSION
WELL LOCATION AND ACREAGE DEDICATION PLAT

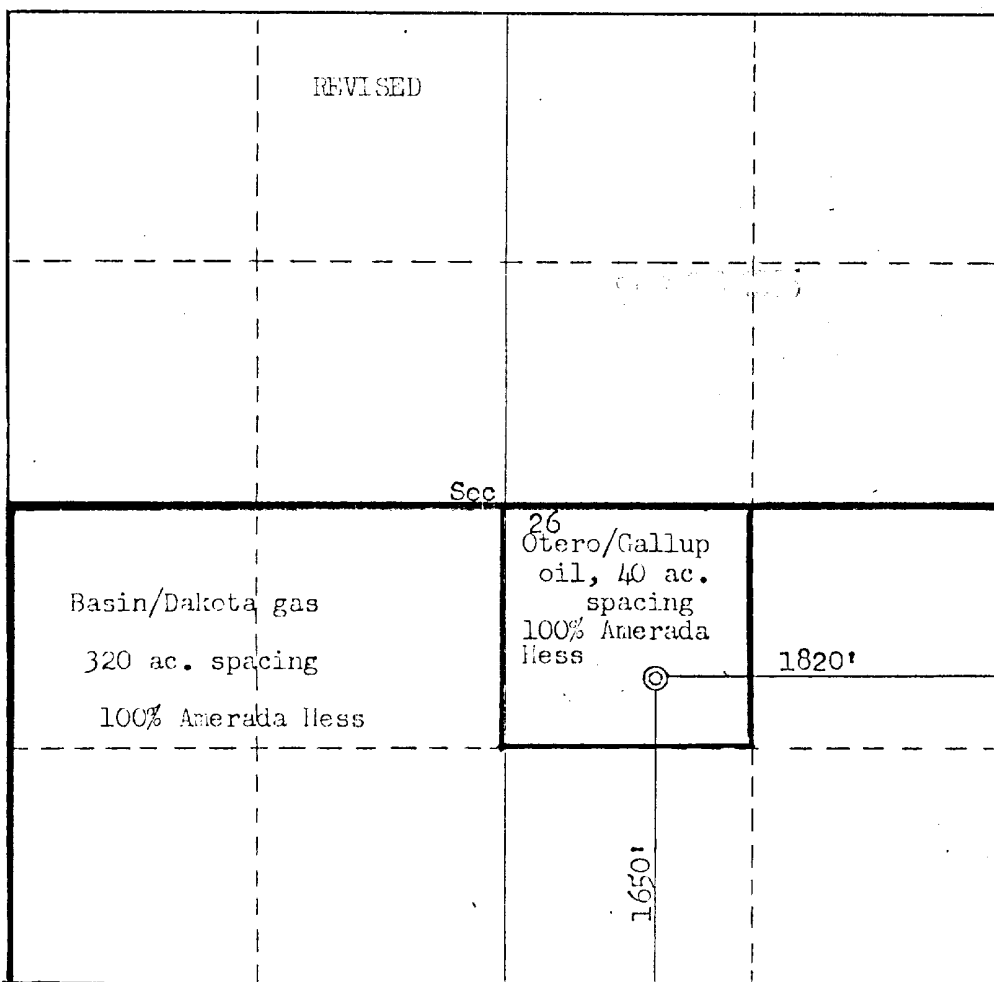
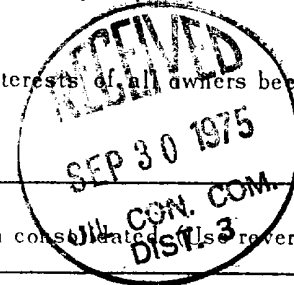
Form C-102
Supersedes C-128
Effective 1-1-65

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

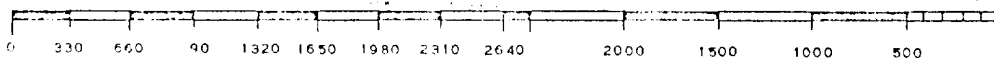
Operator Amerada Hess Corporation		Lease Jicarilla Apache		Well No. A-7
Unit Letter J	Section 26	Township 25N	Range 5W	County Rio Arriba
Actual Footage Location of Well: 1650 feet from the South line and 1820 feet from the East line				
Ground Level Elev. 6961	Producing Formation Dakota gas/Gallup oil	Pool <i>Basin Dakota</i> <i>see below</i> <i>Otero Gallup</i>	Dedicated Acreage: 320 <i>see below 40 Acres</i>	

- Outline the acreage dedicated to the subject well by colored pencil or hatchure marks on the plat below.
- If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
- 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 _____
 If answer is "no," list the owners and tract descriptions which have actually been consolidated (Use reverse side of this form if necessary.) _____
 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.	
Name	<i>E. Griffin</i> E. Griffin
Position	Supv. Tech/Drlg. Adm. Serv.
Company	Amerada Hess Corporation
Date	Sept. 25, 1975
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	September 17, 1975
Registered Professional Engineer and/or Land Surveyor	<i>Fred B. Kerr Jr.</i> Fred B. Kerr Jr.
Certificate No.	3950



will file

OIL CONSERVATION COMMISSION

STATE OF NEW MEXICO
1000 RIO BRAZOS RD. - AZTEC
87410

I. R. TRUJILLO
CHAIRMAN

LAND COMMISSIONER
PHIL R. LUCERO
MEMBER

STATE GEOLOGIST
A. L. PORTER, JR.
SECRETARY - DIRECTOR

September 17, 1975

Mr. E. Griffin
Amerada Hess Corporation
P. O. Box 2040
Tulsa, Oklahoma 74102

Attn: Drilling Services

Re: Amerada Hess Corp.
J. Apache A #7
J 26-25N-5W
Rio Arriba County

Dear Mr. Griffin:

The enclosed copy of the pool rules for the Otero-Gallup Oil pool requires the wells to be staked in accordance with Rule 104 C of our Rules and Regulations.

Exceptions for topographical conditions are available by Rule 104 F.

If there are questions please contact us.

Yours very truly,

AR Kendrick
A. R. Kendrick
Supervisor, District #3

Encl: Otero-Gallup Pool rules

ARK/bk