UNITED STATES (Other instructions on reverse side) DEPARTMENT OF THE INTERIOR

•		NI OF THE INT		;	5. LEASE DESIGNATION	AND SERIAL NO.
	GEO	OGICAL SURVEY	APJ 30-039-2	21232	Lse. Contrac	. ,,
APPLICATIO			PEN, OR PLUG		6. IF INDIAN, ALLOTTEE	
1a. TYPE OF WORK					Jicarilla /	•
	ILL 🗵	DEEPEN 🗌	PLUG BA	KCK ∐	1. UNIT AGREEMENT NA	AM B
b. TYPE OF WELL OIL C	AS X OTHER		SINGLE MULTI	PLE V	S. FARM OR LEASE NAM	The state of the s
2. NAME OF OPERATOR	ELL OTHER		ZONE		J. Apache	
Amerada H	ess Corporatio	on, Att: Drlg.	Service Col.	VID.	9. WELL NO.	
3. ADDRESS OF OPERATOR			Mrom	L. 54	13	•
	2040, Tulsa, (A se see as E	1976	10. FIELD AND POOL OF	WILDCAT
		and in accordance with a			Oters: Pictur	ed Uliffs.
-1840' F	SL and 800° F	4T	OF CON	COM.	11. SEC., T., R., M., OR B AND SURVEY OR AR	LK.
At proposed prod. zor	ne .		DIST	3	Sec. 18, T25N	
Sal		EAREST TOWN OR POST OF			12. COUNTY OR PARISH	-
		ndrith, New Mex		•	Rio Arriba	New Mexico
10. DISTANCE FROM PROP			. NO. OF ACRES IN LEASE	17. NO. 0	F ACRES ASSIGNED / 47	962
LOCATION TO NEARES PROPERTY OR LEASE	LINE, FT.	800	2559.4	320 T	to Dakota & 160	to balance
(Also to nearest drl 18. DISTANCE FROM PROI	OSED LOCATION*	19	. PROPOSED DEPTH		RY OR CABLE TOOLS	
TO NEAREST WELL, I OR APPLIED FOR, ON TH	RILLING, COMPLETED,	26401	7,200		Rotary	
21. ELEVATIONS (Show wh	ether DF, RT, GR, etc.				22. APPROX. DATE WOL	RK WILL START*
est. 65051	Gr. Elev.	(Proration Uni	t $W/2$ of Sec. 18)	Aug. 15,	1976
23.		PROPOSED CASING	AND CEMENTING PROGR	RAM		
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	-	QUANTITY OF CEMEN	
12-1/4"	9-5/8"OD	32.3/	3501+/-	250	ex. and circ.	•
7-7/8"	5-1/2"OD	15.5t [‡]	72001+/-	-	x. & est. top	@ surface.
	2 2/2 02				MER OUT TOOP	W. DIKK X (40) / 6
	70111	1				
			run, set and cem			
ith a 7-7/8" b og well and if f the Dakota g	it to a propos productive in as sand does	sed TD of 7,200 n all zones, du not indicate pr	C for est. 18 hr or a sufficient al complete in the oductive, dual control and appeared.	t depth heDakota omplete	to test the Da and Chacra ga in the Chacra	akota gas zon as zones and and Pictured
illis gas zone eli is completa	s with 5g tsp ed in A 2 at	yes sevent sell	et and cemented	$ab = \frac{1}{2} ab$	00 or 4050' (WI	itch ever zor
err ra compreu	su iii) ii 2 st	age cement cor	lar will be run i	ru bā c	sg. string.	± Q₹
o cores or dri	ll stem tests	are anticipate	d.			
		1				
ud program is isc, 60/70 fo	to use low vis r logging.	sc. and low wat	er loss mud out	irom unc	ler surface csg	to TD with
IN ABOVE SPACE DESCRIBI	F PROPOSED PROGRAM:	it proposai is to deepen	usage plan, locar	present prou	uctive zone and proposed	new broauctive
sone. If proposal is to preventer program, if an		onany, give pertinent da	ta on subsurface locations a	ina measured	and true vertical depth	s. Give blowout
24.	` `		Can a serie =	L. /T)3	A C	,
SIGNED E. L	trasen-	7171 0	Supervisor, Tech	n/urig.	Adm. Serv. Ma	y 4, 1976
Contract Con						
(This space for Fede	eral of State office use)					
PERMIT NO.			APPROVAL DATE			-
					n de la companya de Na companya de la co	:
APPROVED BYCONDITIONS OF APPROV	AT TO ANY	TITLE _		<u></u>	DATE	
CONDITIONS OF AFFRON	1		. 7	٠	- 470 75	
D	Cat					· ·
			•			

*See Instructions On Reverse Side

AMERADA HESS CORPORATION

J. Apache "F" 13

Sec. 18, T25N, R5W

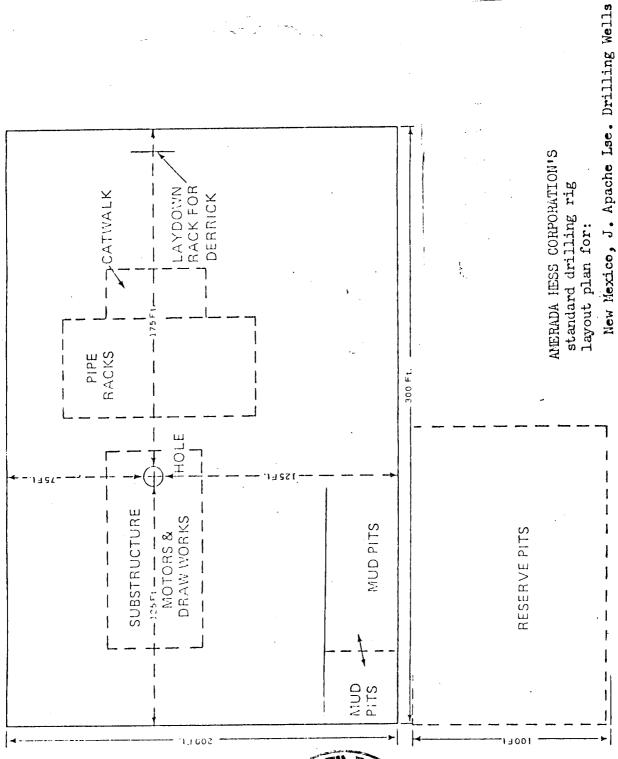
Rio Arriba County, New Mexico

May 21, 1976

12 Point Surface Usage Plan

- Location of well is approximately 18 miles NE of Counselors, New Mexico and is est. 15 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. If the well is a producer, a small tank battery will have to be erected near well site.
- 6. Drilling water purposes will come from Largo Canyon, 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 1/2 ft. deep to drain well site location. Natural terrain of the will handle balance of the drainage.

MAY 26 1976 OIL CON. COM. DIST. 3



MAY 26 1976 ONL CON. COM. DIST. 3 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 lease 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. l-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

driller's station.

5. Flow rate monitoring device with pump stroke counters connected to the pumps and with automatic trip fill up device with total real total real 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 materilas.
 - * Items 1through 5 may be 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 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 regularily 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 resed during a tour.

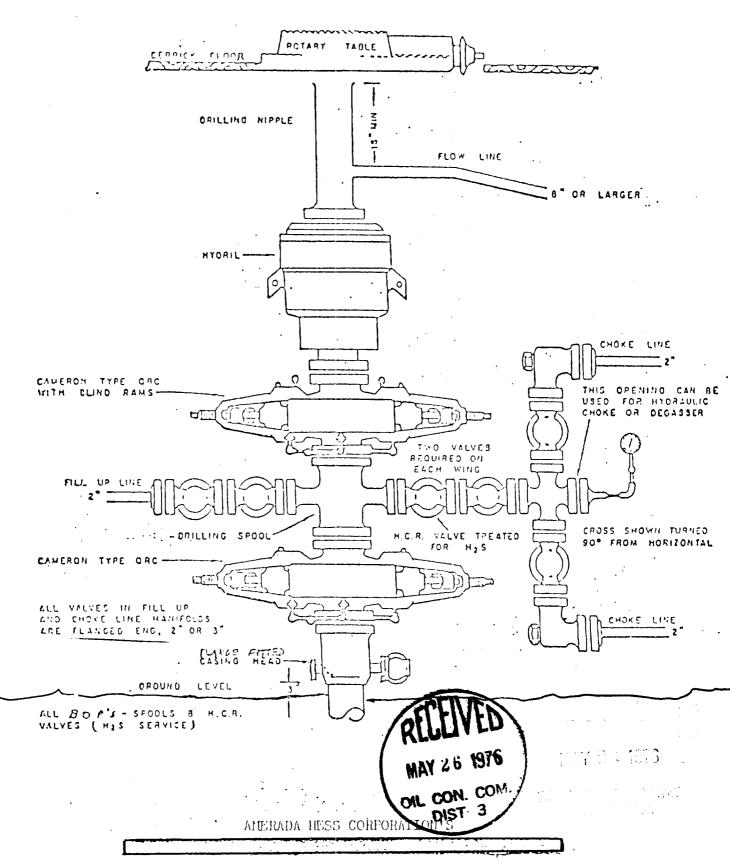
MAY 26 1976 OIL CON. COM. DIST. 3

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:

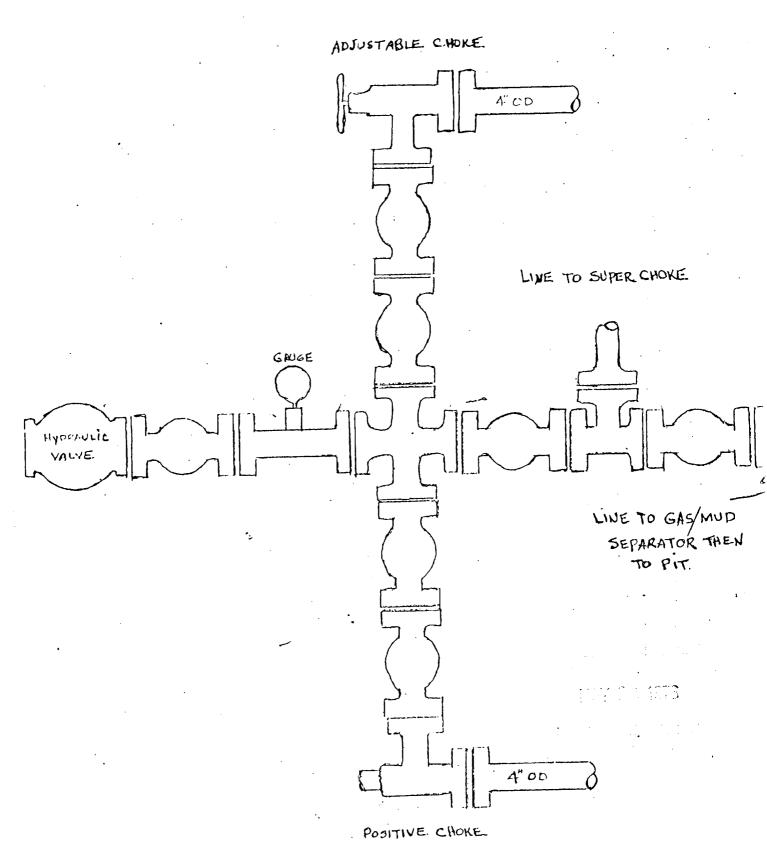
- Increase in surface pit volume as detected by pit volume totalizer or a.man on the pits.
- 2. Increase in return mud flow rate as detected by the flow rate monitor.
- 3. Decrease in drill pipe pressure, caused by oil, gas, or salt water entering the annulus and unbalancing the hole.
- 4. Gas or salt 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 occurence of a high concentration of gas upon circulating bottoms up after a trip.





LAYOUT PLAN FOR REQUIRED BLOWOUT PREVENTER ASSEMBLY

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



Form 9-331 (May 1963)

SUBMIT IN TRIPLICATE* UNITED STATES (Other instructions on re-DEPARTMENT OF THE INTERIOR verse side)

GEOLOGICAL SURVEY

	Fori Budi	n approv get Bure	ed. au No/	42-R1424
j.	LEASE DES	IGNATION	AND/8	ERIAL NO.
	Lease	Contr	raget	#149

	Lease Contract #147
-	6. IF INDIAN, ALLOTTEE OR TRIBE NAME
	Jicarilla Apache
-	7. UNIT AGREEMENT NAME
-	8. FARM OR LEASE NAME
	J. Apache "F"

	NOTICES AND REPORTS ON WELLS proposals to drill or to deepen or plug back to a different reservoir. PPLICATION FOR PERMIT—" for such proposals.)	Jicarilla Apache
OIL GAS X OY	THER	7. UNIT AGREEMENT NAME
2. NAME OF OPERATOR Amerada Hess Corp	oration	8. FARM OR LEASE NAME J. Apache "F" 9. WELL NO.
3. Address of OPERATOR P.O. Drawer 817,	Seminole, Texas 79360	13
See also space 17 below.) At surface	cation clearly and in accordance with any State requirements.*	10. FIELD AND, POOL, OR WILDCAT Otero: Pakota and Chacra or Otero: Pictured Cliffs 11. SEC., T., E., M., OR BLK. AND
1590' FSL and 11	SOT FWL	Sec. 18, T25N, R5W
14. PERMIT NO.	15. ELEVATIONS (Show whether DF, RT, GR, etc.)	Rio Arriba New Mexico

Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data 16. SUBSEQUENT REPORT OF: NOTICE OF INTENTION TO: REPAIRING WELL PULL OR ALTER CASING WATER SHUT-OFF TEST WATER SHUT-OFF ALTERING CASING FRACTURE TREATMENT MULTIPLE COMPLETE FRACTURE TREAT ABANDONMENT* SHOOTING OR ACIDIZING ABANDON* SHOOT OR ACIDIZE CHANGE PLANS (NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.) REPAIR WELL

(Other) 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.)*

T.D. 7,180' by driller: 7,186' by Loggers

After WOC for 18 hrs. running 9-5/8" surface csg. (Re: Sundry Report dated 8/25/76), drilled to a total depth of 7,180, 9/13/76, Dresser Atlas logged well with buel Ind. Laterolog W/SP & GR; Comp. Form. Density W/Comp. neutron GR & caliper 7184 to 2100' and GR 7184 to 300', conditioned hole 9/15/76, run, set and cemented $5\frac{1}{2}$ "OD 17# K-55 & 15.5# K-55 new casing at 7,178' with fill collar @ 7131, stage collars at 5485 & 3695', 1st. stage cement W/350 sx. Dowell Class "B", good returns while cementing, plug down @ 9:45PM 9/15 W/max. PP 2000#, WOC 6 hrs. and 2nd. stage cement by Dowell with 350 sx. Class B cement, plug down @ 4:30 AM 9/16/76, good returns W/2500# max. PP, WOC 6 hrs. and Dowell cemented 3rd. stage W/1100 sx. Class B cement W/max. PP 2500#@ 12 noon 9/16/76 and circ. out approx. 240 sx. cement. N.D. BOP, set 52" csg. slips, cut off 52" csg., released Cactus Drlg. Co. rig #19 at 2 PM 9/16/76.

completed by Production Dept. Will be moving in a completion unit when availab

	0/37.3	
8. I hereby certify that the foregoing is true and correct SIGNED .	TITLE Supervisor, Drlg. Adm. Serv.	9/17/76
(This space for Federal or State office use)		
APPROVED BYCONDITIONS OF APPROVAL, IF ANY:	TITLE DAT	Р

OIL CONSERVATION COMMISSION Autoc DISTRICT

OIL CONSERVATION COMMISSION BOX 2088	DATE	4-22-77
SANTA FE, NEW MEXICO	RE:	Proposed MC
SANIA FE, NEW PERIOD		Proposed DHC
		Proposed NSL
. 1		Proposed SWD
P. A. Tilling		Proposed WFX
Carl Wrag		Proposed PMX
		•
Gentlemen:		
I have examined the application dated	4-1	4-77
I have examined the appropriate and account of the control of the		H
for the American for the American dated the application dated to the form the American dated the application dated to the form the American dated the application dated to the form the American dated the application dated to the application dated the application da	tohe 1	13 L. 18.25N-50
Operator / Léase and W	ell No.	Unit, S-T-R
Operator		
and my recommendations are as follows:		
and my recommendations are		
anare		
- Company of the Comp		
•	Your	s very truly,
	-54.	
	as	2 tougaick

NEW MEXICO OIL CONSERVATION COMMISSION SANTA FE, NEW MEXICO APPLICATION FOR MULTIPLE COMPLETION

perator		County	Date
merada Hess Corporation		Rio Arriba	4-14-77
dress		Lease	Well No.
rawer D, Monument, New Me	exico 88265	J. Apache "F"	13
I Init Sec		wnship	Range
f Well L	18	25-N	5-W
	on Commission heretofore at	uthorized the multiple completion	n of a well in these same pools or in the same
zones within one mile of the subject		NO X	
If answer is yes, identify one such i	weir: 125		and Well No.:
If answer is yes, identify one such is	nstance: Order No	, operator zerat,	
The following facts are submitted:	Upper	Intermediate	Lower
The following facts are submitted.	Zone	Zone	Zone
a. Name of Pool and Formation	 		Basin Dakota
	Otero Chacra 3434' to 3550'	• • • • • • • • • • • • • • • • • • • •	6908' to 6955'
b. Top and Bottom of	3434 60 3330		
Pay Section			·
(Perforations)	+		Gas
c. Type of production (Oil or Gas)	Gas		088
d. Method of Production			Flow
(Flowing or Artificial Lift)	Flow		FIOW
The following are attached. (Please	check YES or NO)		
tors have been furn	e well or other acceptable such log is not available at e on which this well is located. Box 3092, Houston 650, Tulsa, Oklaho Box 2197, Greenwa	log with tops and bottoms of protect the time application is filed it ated together with their correct man, Texas 77001 ma 74102 Ty Plaza, Houston, Texas	as 77001
			V
. Were all operators listed in Item 5	above notified and furnished	ed a copy of this application?	YES X NO . If answer is yes, giv
date of such notification 4-1	4-77	·	
			Amamala Nasa Camanation
CERTIFICATE: I, the undersigned	d, state that I am the Su	ipv. Adm. Ser.	of the Amerada Hess Corporation
nder my supervision and direction and			ke this report, and that this report was prepar
mae. m., ceperine end end			- A
		OH	10 I) .
		60	Fisker
			Signature
Should waivers from all offset operate sion will hold the application for a p day period, no protest nor request fo	ors not accompany an appli period of twenty (20) days f r hearing is received by the	ication for administrative approv from date of receipt by the Comm e Santa Fe office, the application	val, the New Mexico Oil Conservation Comm nission's Santa Fe office. If, after said twen n will then be processed.

J. APACHE "F" No. 13
Sec. 18, T25N, R5W
Rio Arriba County, New Mexico

