	·		00	<b>D-HO</b>	BBS			
	Form 3160-3 (July 1992)		OC.	DI				'ED K · (
	(July 1772)	UNITED STA	ATES		(Other Instructions reverse side)	оп	OMB NO. 1004-0	
	. ««. D	EPARTMENT OF TH	HE INTERI		·		5LEASE DESIGNATION AND S	
	12.88	BUREAU OF LAND MA					NMLC-031741-	
_		CATION FOR PERM	IT TO DRI	LL OR	DEEPEN		6IF INDIAN, ALLOTTEE OR T	
	la TYPE OF WORK			7			7. UNIT AGREEMENT NAME	
	DR							A .
				SINGLE	MULTIPLE		8. FARM OR LEASE NAME, WE	LL NG 31
-	WELL X WELL	OTHER		ZONE	ZONE	X	Hawk A-5 #4	
	2. NAME OF OPERATOR				. Males and as		9. API WELL NO.	ad
-		ache Corporation (CO1		<u>``</u>			30- 025- 38	128
	3. ADDRESS AND TELEPHO	ONE NO. Agent: 705 W Mescalero I #1500. Tulsa. OK 74136 918-4	Rd., Roswell, NM	[ 88201 505	-624-9799 (Bonnie Jor	ies)	Drinkard (1919	
-	4. LOCATION OF WELL (Re	eport location clearly and in accord	dance with any St	ate requirem	ents.*)		11. SEC., T., R., M., OR BLK.	
	At Surface 450' FS At proposed prod. Zone	SL, 450' FEL, Unit P (SE'48	•				AND SURVEY OR AREA	
	The propose proce soll	<sup>6</sup> 450' FSL, 450' FEL, Unit	P (SE¼SE¼)				Sec. 5, T21S-R37E, N	MPM
-	14. DISTANCE IN MILES AN	ND DIRECTION FROM NEAREST TOW	N OR POST OFFIC	E.			12. COUNTY FOR PARISH	13.STATE
	±3.5 miles North	west of Eunice, NM					Lea	NM
	15. DISTANCE FROM PROP	·····		16. NO. OI	F ACRES IN LEASE	17.	NO. OF ACRES ASSIGNED	· · · · · · · · · · · · · · · · · · ·
	LOCATION TO NEARES						TO THIS WELL	
	PROPERTY OR LEASE I (Also to nearest drig.	-		560	0.00		40.00	
-	18. DISTANCE FROM PROP			19. PROPC	DSED DEPTH	20.	ROTARY OR CABLE TOOLS	
	TO NEAREST WELL, DI OR APPLIED FOR, ON T	1150		7,02	5'		Rotary	
-	21. ELEVATIONS (Show w	vhether DF, RT, GR, etc.)				Т	22. APPROX. DATE WORK WILL STA	RT *
_	3,494' (KB)						ASAP	
	22							
-	23. SIZE OF HOLE	GRADE, SIZE OF CASING	SED CASING A WEIGHT PE		SETTING DEPTH	(	ephan Controlled Wa	
-	SIZE OF HOLE	GRADE, SIZE OF CASING	weight re		SETTING DEPTH		QUANTITY OF CEMI	2N I
-	·····		See Ex	hihit	Λ			
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	Anticipated Dura	ation of Program: Dril	ling - 14 d	ave			(2) 2N	65)
	<b>F</b>	Con	$\frac{140}{2}$	ays 8 dave			AN SEP Anon	
	See attached Exh	nibit Afor complete Dri					Received	
		• •	• •	XHIBIT	<b>S</b>		Hobbs	14
	Exhibit A: Drillin	ng Program Exh	ibit D: Surv			hib	it G: Rig Layout	
	Exhibit B: H <sub>2</sub> s P	lan Exh	ibit E: Loca	tion Pla			it H: BOP Layout	
	Exhibit C: Surfac	ce Use Plan Exh	ibit F: Exist	ting Wel	ll Plat		र्म में साम का साम क साम का साम का	
n	N ABOVE SPACE DESCRIBE	PROPOSED PROGRAM: If proposal e pertinent data on subsurface loca	is to deepen, give	data on pre	sent productive zone a	nd pr	oposed new productive zone. If pr	roposal is to dr
<u>0</u>	24.	e perment data on subsurface loca	mons and measure	ed and true	vertical depins. Give b	iowo	ut preventer program, it any.	
		·-,		•. •		h	7	16.06
	SIGNED Bonita I	L. Jones, RPL (Bonnie)		rmit Age	nt for Apac		Corporation DATE 8	-10-00
	(This space for Federal or						<b></b>	
=	· •							
-	PERMIT NO				PROVAL DATE			······
=		s not warrant or certify that the app	licant holds legal	or equitable	e title to those rights in	the s	ubject lease which would entitle th	e applicant to
=		n					SEP 1 5 2	0000
	conduct operations thereo		CIC!	D AA	ANAGER			11110
	CONDITIONS OF APPROVED BY	M Don Peterson			ANAGER		DATE	
	CONDITIONS OF APPROVED BY	M Don Peterson				AF	DATE	
Tit	conduct operations thereo CONDITIONS OF APPROVE APPROVED BY le 18 U.S.C. Section 100	a. <b>Dan Peterson</b> 01, makes it a crime for any per- aments or representations as to	*See Instructions son knowingly a	tions On i nd willfully	Reverse Side to make to any depa	A F	DATE	
Tit	conduct operations thereo CONDITIONS OF APPROVE APPROVED BY le 18 U.S.C. Section 100	10 makes it a crime for any per	*See Instructions son knowingly a	tions On i nd willfully	Reverse Side to make to any depa iction.		DATE	

ATTACHED

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Carlsbad Field Office 620 East Greene Street Carlsbad, New Mexico 88220

RE: Application for Permit to Drill Lease NMLC-031741A Hawk A-4 #4, Hawk A-5 #4, Hawk A-5 #5 Hawk A #30, Hawk A #31, Hawk A #33 <u>Township 21 South, Range 37 East, NMPM</u> Lea County, New Mexico

Dear Ms. Hill:

Please be advised that the Surface Owner's Agreement for the Hawk A-4 #4, Hawk A-5 #4, Hawk A-5 #5, Hawk A #30, Hawk A #31, Hawk A #33 wells were executed by Apache Corporation and the Trustee of the Millard Deck Estate, surface owner, on August 31, 2006. It is my understanding that this statement is sufficient for your needs and that you may now proceed with approval of the Applications for Permit to Drill, received by your office on within the past two weeks.

Sincerely,

LIMPUSJONES, LLC

Bonita L. Limpus Jones, RPL Consulting Landman, Permit Agent for Apache Corporation

/bj Enclosure

#### EXHIBIT "A" Hawk A-5 # 4 DRILLING PROGRAM

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

Estimated Tops of Geological Markers:

FORMATION	DEPTH
FORMATION	
Quaternary alluvials	Surface
Rustler	1306'
Yates	2723'
Queen	3497'
Grayburg	3793'
San Andres	4080'
Glorieta	5259'
Blinebury	5724'
Tubb	6241'
Drinkard	6601'
Abo	6854'
TD	7025'

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

DEPTH
Blinebry@5724'
Tubb@6241'
Drinkard@ 6601'
None anticipated

Gas

Oil

#### Fresh Water

**SUBSTANCE** 

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.

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II.

A. Proposed Casing Program:

	CASING		WEIGHT		······································	ESTIMATED TOC -
<u>HOLE</u>	<u>SIZE</u>		<u>PER</u>		<u>SACKS</u>	<u>REMARKS</u>
<u>SIZE</u>	OD / ID	<b>GRADE</b>	<b>FOOT</b>	<u>DEPTH</u>	<u>CEMENT</u>	
12 1/4"	8 5/8"	J55 STC	24#	1300'	600	TOC - Surface
	8.09 <b>7</b> "					8.9 ppg Water-based
		Witnes	s Surface	Casimo		Mud;
		11 101100	5 2 mi 10000	Cassing		89 ° F Est. Static Temp;
						83 ° F Est. Circ. Temp.
7 7/8"	5 1/2"	J55 LTC	17#	7,025'	1,400	TOC – Surface
	4.892"					Float Collar set @
						6980"/ 10.10 ppg
						Brine Mud;
						141 ° F Est. Static
						Temp;
						117 ° F Est. Circ. Temp.

#### B. Proposed Cement Program:

•

CASING	LEAD SLURRY					IL SLU	RRY		DISPLACEMENT	
CASING 8 5/8"	400 sacks 35:6:	5 Poz Cla	ee (`	200	sacks Cla	ass C C	80 bbls Fresh Water @			
0 310	400  sacks  33.0. Cement + 2% b				c Calciur				8.33 ppg	
	Chloride $+ 0.25$				sack Celle					
	+ 0.003 gps FP	Wa				• • • • •				
	Bentonite gel	/-			-	0 Vol. C	lu Ft			
	752 Vol. Cu Ft					4 Vol. F				
	1.94	Vol. Facto	or	Slu	rry Weigh	it (ppg)	14.8			
	Slurry Weight	(ppg) 12.7	•	Slu	rry Yield	(cf/sack	) 1.35			
	Slurry Yield (c	F/sack) 1.8	8	Am	ount of M	lix Wate	er (gps)	6.35		
	Amount of Mix	Water (g	ps) 10.7;		imated Pu		Γime − '	70 BC		
		ted Pumpi		<u> </u>	<b>H:MM)-3</b> :	00;				
	<u>70 BC</u>	(HH:MM	<u>)-4:00;</u>							
			<u>8 5/8</u>		g: Volume		ations:			
126	0ft x		7 cf/ft	with	100% e		=		1040.0 cf	
40 1			214 cf/ft	with			=		32.8 cf	
40 1	t x		6 cf/ft	with	0% exc	ess	*		14.3 cf (inside pipe)	
		TOT	AL SLUR	RY VO	LUME		=		1087.1 cf	
-							=		193.6 bbls	
Spacer	20.0 bbls W									
CASING	LEAD	SLURRY	<u>r</u>			SLUR			DISPLACEMENT	
5 1/2"	950 sacks (50::				acks (50::		· ·		160 bbls 2% Kcl Water	
	Class C Cemer				Class C C				@ 8.43 ppg	
	Sodium Chlori				ım Chlori	de +0.00	)3 gps l	F <b>P-</b>		
	Cello Flake + (		FP-6L +	6L	501		<b>1</b> 7.			
	10% bwoc Ben					Vol. Cu				
		Vol. Cu F		Class		Vol. Fac				
		Vol. Facto			y Weight					
	Slurry Weight				y Yield (c unt of Miz			01.		
	Slurry Yield (c Amount of Mix	-			unt of Miz		-	•		
	14.07;	water (g	(ps)		nated Pum			-		
	Amount of Mix	r Fluid (m	se) 14 07		HH:MM)			<b>D</b> C		
	Estimated Pum			•	<b>1 11 1.101101</b> <i>)</i>	-5.00,				
	(HH:MM)									
		<u></u>	E 1/	+ Casia	Value -	Calant			<u></u>	
13	300 ft	x	<u>5 ½</u> 0.1926		<u>g: Volume</u> with	<u>Calcula :</u> 0% ex		=	250.4 cf	
	325 ft	x	0.1920		with	159% e		=	1717 cf	
	900 ft	x	0.1733		with	85% ex		=	609.0 cf	
17	40 ft	x	0.1305		with	0% ex		=	5.2 cf(inside pipe)	
			AL SLUR				=		2581.60 cf	
		101					=		459.76 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.

<u>DEPTH</u> 0 - 1,300'	MUD PROPERTIES Weight: 8.6 – 9.6 ppg Viscosity: 34 – 36 sec/qt pH: NC Filtrate: NC	<u>REMARKS</u> 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.
1300' – 5600'	Weight: 9.9 – 10.1 ppg Viscosity: 28 – 29 sec/qt pH: 9-10 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. Use Lime to maintain pH at 9-10. Mix one gallon of New-55 at flowline every 250 feet drilled to promote solids settling. Sweep hole with 5-ppb of Super Sweep every 500 feet.
5600' – TD	Weight: 9.9 – 10.1 ppg Viscosity: 30 – 40 sec/qt pH: 9-10 Filtrate: 8-15 cm/30 min	From 5600' 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.

#### 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. <u>Mudlogging Program:</u> 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 2400 psi.

#### EXHIBIT "B" Hawk A-5 # 4

#### HYDROGEN SULFIDE DRILLING OPERATIONS PLAN

No  $H_2S$  is anticipated.

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JL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
			Bottom	Hole Lo	cation If Diffe	erent From Sur	face		•
P	5	21-S	37-Е		450	SOUTH	450	EAST	LEA
JL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	Bast/West line	County
					Surface Loc	ation		•	
0873	3				3494'				
OGRID No		<u>.</u>			Elevatio				
	36			Well Num 4	4				
30.025 Property (		125	19190 Drinkard Vell Ni						
	Number	API	Pool Code Pool Name						
ISTRICT IV	R., SANTA <b>Fe</b> ,	NM 87505	WELL LO	CATION	AND ACREA	AGE DEDICATI	ON PLAT	🗆 AMENDI	ED REPOF
ISTRICT III 00 Rio Brazos R	d., Aztec, N	M 87410				exico 87505	24 	Fee Leas	e – 3 Copi
ISTRICT II D1 W. GRAND AVENUI	I, ARTESIA, NM	88210	OIL			ON DIVIS FRANCIS DR.	ION Subm	it to Appropriate D State Leas	istrict Offi e - 4 Copi
X	UC							F Revised Octo	orm C-1
STRICT I	HOBBS. NM 88:	240		Energy.	Minerals and Netural	Resources Department			_
						Exhibit D-1			

#### 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
	LOT 4	LOT 3	LOT 2	LOT 1		I bereby certify that the information berein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land
	37.37 AC	37.50 AC	37.64 AC (	37.77 AC		including the proposed bottom hale location or has a right to drill this well at this
		LOT 6	<u>Lot -</u> -			location pursuant to a contract with an owner of such mineral or working interest, or to a voluntary pooling agreement or a compulsary pooling order heretofore entered by the division.
11	40.00 AC	40.00 AC	40.00 AC	40.00 AC		
		LOT 11	LOT 10	LOT 9		Lana Williams
	40.00 AC	40.00 AC	40.00 AC	40.00 AC	GEODETIC COORDINATES NAD 27 NME	Lana Williams
	LOT 13	LOT 14	LOT 15	LOT 16	X-540004 7 M	Thinky Manie
					Y=548204.7 N X=856325.1 E	SURVEYOR CERTIFICATION
	40.00 <u>AC</u>	40.00 AC	40.00_AC	40.00 <u>AC</u> _	LAT.=32°30'06.54" N LONG.=103°10'39.26" W	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.
			1		DETAIL	
		+ +     		SEE DETAIL	3492.9'3489.1'	JUNE 05, 2006 Date Surveyed MR Signature & Seal of MR Professional Surveyor
200	0	0	2000	40	3498.7' 3495.3' 00 Feet	Denald Editor 6/19/06
		Scale:1"	-2000'			
			=2000			Certificate No. GARY EIDSON 12841 RONALD J. EIDSON 3239



DISTRICT I	. ROBBS. NM 88	240		Energy, 1	finerals and Nat	urel R	esources Department		 7	orm C-102
DISTRICT II 1301 W. GRAND AVER DISTRICT III 1000 Rio Brazos	NUB, ARTESIA, NM	88210		1220 S	OUTH ST	Г. F	ON DIVIS TRANCIS DR. Exico 87505	ION Subm	Revised Octo it to Appropriate D State Lease	ber 12, 2005
DISTRICT IV		NM 87505	WELL LO	CATION	AND ACI	REA	GE DEDICATI	ON PLAT	AMEND	ED REPORT
·····	I Number		1	Pool Code				Pool Name		
Property	7 Code		J		Property HAWK				Well Num	nber
OGRID	No.			APA	<sup>Operator</sup> CHE COF	Nam	e	,	Elevatio 349	
L					Surface	Loca	ition			
UL or lot No.	Section	Township	Range	Lot Idn	Feet from	the	North/South line	Feet from the	East/West line	County
P	5	21-S		<u> </u>	450		SOUTH	450	EAST	LEA
177 3-4 No.		Termehin	Bottom	Hole Loo	Peet from		rent From Sur	face Feet from the	East/West line	County
UL or lot No.	. Section	Township	Range	Lot idh	reet from	une	worthy South line	Feet Irom the	Last/ west inte	county
Dedicated Ac		WILL BE A		TO THIS			INTIL ALL INTER APPROVED BY		EEN CONSOLID	ATED
LOT 4	LOT 3	LOT 2 37.64 AC LOT 7 40.00 AC LOT 10 40.00 AC LOT 15	$ \begin{array}{c c}     LOT 1 \\     \hline      \hline      \hline     \hline      \hline       $					I hereby berein is true my knowledge organisation e. or unleased m including the or has a right location pursue owner of such or to a volunt compulsory po by the division Signature Lana	William	formation to best of t this g interest to land to location t this with an interest, int or a re entered
60.00	40.00 AC	40.00 AC	     40.00 AC   0               				       	i hereby shown on this	DR CERTIFICA certify that the we plat was plotted fr	FION U location om field

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 Co	onsolidation (	Code Or	der No.	• · · · · · · · · · · · · · · · · · · ·	• •• • • • • • • • • • • • • • • • • •	· · · · · · · · · · · · · · · · · · ·	

			Scale:1	"=2000'	Certificate No. GARY EIDSON 12641 RONALD J. EIDSON 3239
	2000		0	2000 4000 Feet	06.11.0941
<u> </u>	<u> </u>		<u></u>		Signature & Seal of Professional Surveyor
	HAWK A-5	   1205'1205'		1130' - +	JUNE 05, 2006 Date Surveyed MR
	+	— — —   			
			SECTION	SECTION	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.
	Ţ		2	<b>4</b>	I hereby certify that the well location
40.00 AC	40.00 AC	40.00 AC	40.00 AC		SURVEYOR CERTIFICATION
LOT 13	LOT 14	LOT 15	LOT 16		Printed Name
40.00 AC	40.00 AC	40.00 AC	40.00 AC		Lana Williams 7/26/26 Lana Williams
40.00 AC	40.00 AC	40.00 AC			or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

#### State of New Mexico

Exhibit D-3

**EXHIBIT E-1** 

VICINITY MAP



SEC. <u>5</u> TWP. <u>21 – S</u> RGE. <u>37 – E</u> SURVEY <u>N.M.P.M.</u> COUNTY <u>LEA</u> STATE <u>NEW MEXICO</u> DESCRIPTION <u>450' FSL & 450' FEL</u> ELEVATION <u>3493'</u> APACHE OPERATOR <u>CORPORATION</u> LEASE HAWK A–5

• •



### LOCATION VERIFICATION





Rig #8





Location Specs

Exhibit H



# Well Name & No.4-Hawk A-5Operator's Name:Apache CorporationLocation:450 FSL, 450 FEL, SEC 5, T21S, R37E, Lea County, NMLease:LC031741A

#### I. DRILLING OPERATIONS REQUIREMENTS:

1. The Bureau of Land Management (BLM) is to be notified at the Roswell Field Office, 2909 West Second St., Roswell NM 88201, (505) 627-0272 for wells in Chaves and Roosevelt Counties; the Carlsbad Field Office, 620 East Greene St., Carlsbad, NM 88220, (505) 234-5909 or (505) 361-2822 (After hours) - for wells in Eddy County; and the Hobbs Field Station, 414 West Taylor, Hobbs NM 88240, (505) 393-3612 for wells in Lea County, in sufficient time for a representative to witness:

A. Spudding

B. Cementing casing: 8 5/8 inch \_\_\_\_ inch \_\_\_\_ inch

C. BOP tests

2. A Hydrogen Sulfide (H2S) Drilling Plan should be activated prior to drilling into the\_\_\_\_\_Formation. A copy of the plan shall be posted at the drilling site.

3 Unless the production casing has been run and cemented or the well has been properly plugged, the drilling rig shall not be removed from over the hole without prior approval.

4. Submit a Sundry Notice (Form 3160-5, one original and five copies) for each casing string, describing the casing and cementing operations. Include pertinent information such as; spud date, hole size, casing ( size, weight, grade and thread type), cement (type, quantity and top), water zones and problems or hazards encountered. The Sundry shall be submitted within 15 days of completion of each casing string. The reports may be combined into the same Sundry if they fall within the same 15 day time frame.

5. The API No. assigned to the well by NMOCD shall be included on the subsequent report of setting the first casing string.

6. A Communitization Agreement covering the acreage dedicated to this well must be filed for approval with the BLM. The effective date of the agreement shall be prior to any sales.

7. Gamma-Ray/Neutron logs shall be run from the base of the Salado Formation to the surface; cable speed not to exceed 30 feet per minute.

#### II. CASING:

1. The <u>8 5/8</u> inch surface casing shall be set <u>ABOVE THE SALT, in THE RUSTLER ANHYDRITE and</u> <u>ATLEAST 25 feet INTO THE RUSTLER ANHYDRITE</u>, below usable water and cement circulated to the surface. If cement does not circulate to the surface the appropriate BLM office shall be notified and a temperature survey or cement bond log shall be run to verify the top of the cement. Remedial cementing shall be completed prior to drilling out that string.

2. The minimum required fill of cement behind the\_\_\_\_\_ inch salt protection casing is

3. The minimum required fill of cement behind the\_\_\_\_\_inch intermediate casing is

## 4. The minimum required fill of cement behind the <u>5-1/2</u> inch production casing is <u>cement shall extend</u> <u>upward a minimum of 500 feet above the BASE OF THE SALT and the uppermost hydrocarbon</u> <u>bearing interval.</u>

5. Whenever a casing string is cemented in the R-111-P Potash Area, cement shall be allowed to stand a minimum of twelve (12) hours under pressure and a total of twenty-four (24) hours before drilling the plug or initiating tests.

#### **III. PRESSURE CONTROL:**

1. All BOP systems and related equipment shall comply with well control requirements as described in Onshore Oil and Gas Order No. 2. The BOP and related equipment shall be installed and operational before drilling below the 8 5/8 inch casing shoe and shall be tested as described in Onshore Order No. 2. Any equipment failing to test satisfactorily shall be repaired or replaced.

2. Minimum working pressure of the blowout preventer and related equipment (BOPE) is 2000 psi.

- 3. The appropriate BLM office shall be notified in sufficient time for a representative to witness the tests.
- A variance to test the \_\_\_\_\_ to the reduced pressure of \_\_\_\_psi with the rig pumps is approved.
  The tests shall be done by an independent service company.
- The results of the test shall be reported to the appropriate BLM office.
- Testing fluid must be water or an appropriate clear liquid suitable for sub-freezing temperatures. Use of drilling mud for testing is not permitted since it can mask small leaks.
- Testing must be done in a safe workman-like manner. Hard line connections shall be required.

301 W. Grand Avenue, Artesia, NM 88210	State of New Mexico Minerals and Natural Resources	Revised 8-24-06 Form C-144 June 1, 2004
000 Die Destor Doud, Astor NM 97410	Dil Conservation Division 220 South St. Francis Dr. Santa Fe, NM 87505	For drilling and production facilities, submit to appropriate NMOCD District Office. For downstream facilities, submit to Santa Fe office
Is pit or below-grade	Grade Tank Registration or tank covered by a "general plan"? Yes pit or below-grade tank Closure of a pit or	s 🕅 No 🗌
6120 S. Yale Ave., #1500, Tulsa, OK 74136		ress:
Facility or well name: Hawk A-5 #4 API County: Lea Lati	#: 30-025 3 3 1 A D U/L or Qtr/( hude Longitude	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
Surface Owner: Federal 🛄 State 🛄 Private 🕅 Indian 🗋	Below-grade tank	
Pit Type: Drilling A Production Disposal Workover Emergency Lined Unlined Liner type: Synthetic A Thickness <u>20</u> mil Clay Pit Volume <u>7105</u> bbl	Volume:bbl Type of fluid: Construction material	s [] If not, explain why not.
Depth to ground water (vertical distance from bottom of pit to seasor high water elevation of ground water.)	Less than 50 feet 2 0	N         (20 points)           N         (10 points)         2 O           N         ( 0 points)         2 O
Wellhead protection area: (Less than 200 feet from a private domest water source, or less than 1000 feet from all other water sources.)	1534P	(20 points) ( 0 points)
Distance to surface water: (horizontal distance to all wetlands, playa irrigation canals, ditches, and perenaial and ephemeral watercourses.	1 200 feet or more, but less than 1000 feet	(20 points) (10 points) ( 0 points)
	Ranking Score (Total Points)	26
f this is a plt closure:       (1) Attach a diagram of the facility showing the our arc burying in place) onsitepffsite [ If offsite, name of facemediation start date and end date.       (4) Groundwater encountered: N         5) Attach soil sample results and a diagram of sample locations and c       Additional Comments:	ility (3) Attach o 🗋 Yes 🗋 If yes, show depth below ground st	a general description of remedial action taken including
I hereby certify that the information above is true and complete to the has been/will be constructed or closed according to NMOCD gut Date: <u>8-17-060000000000000000000000000000000000</u>	idefines [], a general permit [], or an (attach	ed) alternative OCD-approved plan LI.
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