FORM 3160-3 (December 1990) SUBMIT IN TRIPLICATE\* (Other instructions on

reverse side)

Form approved. Budget Bureau No. 1004-0136

Expires December 31, 1991

UNITED STATES	reverse side)	
DEPARTMENT OF THE INTERIOR		5. LEASE DESIGNATION AND SERIAL NO.
DEPARTMENT OF THE INTERIOR		SE 070068

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*  1 mile north of Kirtland, NM  15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drig, unit line, if any)  822'  16. NO. OF ACRES IN LEASE  17. NO. OF ACRES ASSIGNED TO THIS WELL  18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR ON THIS LEASE, FT.  19. PROPOSED DEPTH  20. ROTARY OR CABLE TOOLS  Rotary  21. ELEVATIONS (Show whether DF, RT, GR, etc.)  5320' GR  23. PROPOSED CASING AND CEMENTING PROGRAM  SIZE OF HOLE  SIZE OF CASING  WEIGHT/FOOT  SETTING DEPTH  QUANTITY OF CEMENT	BURE	AU OF LAND MAN	AGEMENT		SF-07	
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Richardson Operating Company  ADDRESS OF OPERATOR  Cho Walls Engineering 7415 E. Main St., Farmington, NM 87402 (505) 327-4892  Thin Mounds PC  In Detail Detail (Report location clearly and in accordance with any State requirements.*)  AS Surface 975 F.SL and 1855 F.EL  AN proposed Prod Zone  AN p	WELL WELL	$\mathbb{Z}^{ X }$ other	$\mathbf{z}$	ZONE	$\exists   w_F r \epsilon$	Merans Goldo DII
Richardson Operating Company  No Wash Engineering 7415 E. Main St., Farmington, NM 87402 (505) 327-4892  LICCATION OF WELL (Report location clearly and in accordance with any State requirements.*)  No studies 975 FSL and 1855 FEL  No proposed Prod Zone  A DISTANCE ROM REASEST TOWN OR POST OFFICE*  I mile north of Kirtland, NM  15 DISTANCE ROM REPOSEST LOCATION TO NEAREST REPORTY 16. NO OF ACRES IN LEASE  OR LEASE LIVE, FT (Also asserted sig until lise, if any State requirements.*)  10 DISTANCE ROM REPOSEST LOCATION TO NEAREST REPORTY 16. NO OF ACRES IN LEASE  10 DISTANCE ROM REPOSEST LOCATION TO NEAREST REPORTY 16. NO OF ACRES IN LEASE  11 NO OF ACRES ASSIGNED TO THIS WELL  12 ELEVATIONS (Show whether Dr. AT, Cife, rec.)  13 DISTANCE FROM REPOSED LOCATION TO NEAREST WELL, PROPOSED DEFTH  24 DISTANCE ROM REPOSED LOCATION TO NEAREST WELL, PROPOSED DEFTH  25 DISTANCE ROM REPOSED LOCATION TO NEAREST WELL, PROPOSED DEFTH  26 DISTANCE ROM REPOSED LOCATION TO NEAREST WELL, PROPOSED DEFTH  27 DISTANCE ROM REPOSED LOCATION TO NEAREST WELL, PROPOSED DEFTH  28 DISTANCE FROM REPOSED LOCATION TO NEAREST WELL, PROPOSED DEFTH  29 DISTANCE ROM REPOSED LOCATION TO NEAREST WELL, PROPOSED DEFTH  20 DISTANCE ROM REPOSED LOCATION TO NEAREST WELL, PROPOSED DEFTH  20 DISTANCE ROM REPOSED LOCATION TO NEAREST WELL, PROPOSED DEFTH  20 DISTANCE ROM REPOSED LOCATION TO NEAREST WELL, PROPOSED DEFTH  20 DISTANCE ROM REPOSED LOCATION TO NEAREST WELL, PROPOSED DEFTH  21 ELEVATIONS (MAY whether Dr. AT, Cife, rec.)  22 APPROX DATE WORK WILL STATT APRIL 1, 1999  23 RESERVATION SALVE WHICH A T, 1999  24 APPROVAL DATE  30 DISTANCE ROM REPOSED LOCATION TO NEAREST WELL, PROPOSED DEFTH  30 DISTANCE ROM REPOSED LOCATION TO NEAREST WELL, PROPOSED DEFTH  31 SELECT TO COMPLIANCE WITH A TTACHED  32 DISTANCE ROM REPOSED LOCATION TO NEAREST WELL, PROPOSED DEFTH  34 DISTANCE ROM REPOSED LOCATION TO NEAREST WELL, PROPOSED DEFTH  35 DISTANCE ROM REPOSED LOCATION TO NEAREST WELL, PROPOSED DEFTH  36 DISTANCE ROM REPOSED LOCATION TO NEAREST WELL, PROPOSED DEFTH	ALL OF ORER ATOR		<del></del>		9. WELL NO.	මැතුල් වි
ADDRESS OF OPERATOR  No Walsh Engineering 7415 E. Main St., Farmington, NM 87402 (505) 327-4892  Twin Mounds PC  LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*)  No University of Recommendation of PC  LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*)  No University of Recommendation of R		Operating Compan	ν		3	
Walsh Engineering   7415 E. Main St., Farmington, NM 87402 (505) 327-4892   Twin Mounds PC		operating company	/		10. FIELD AND POO	)L OR WILDCAT
AND SURVEY OR AREA  AD STANCE OF MELL (Report location clearly and in accordance with any State requirements.*)  A DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE'  1 mile north of Kirtland, NM  15 DISTANCE FROM PROPOSED LOCATION TO NEAREST ROPERTY  OR LEASE LINE, FT (Albo in nearest drig unit line, if any)  22 2523.72  160  BISTANCE FROM PROPOSED LOCATION TO NEAREST WELL, DRILLING, COMPLETE, OR OR INTELLED.  OR ROTARY OR CABLE TOOLS  ROLLING, COMPLETE, OR APPLIED FOR N THIS LEASE, FT  SOO!  122 APPROX DATE WORK WILL START'  April 1, 1999  23 PROPOSED LOCATION TO NEAREST WELL, DRILLING, COMPLETE, OR OR THIS LEASE, FT  SOO!  24 A DISTANCE FROM PROPOSED LOCATION TO NEAREST WELL, DRILLING, COMPLETE, OR APPLIED FOR N THIS LEASE, FT  SOO!  25 ELEVATIONS (Show whether DR, RT, GR, ea.)  320 FOR PROPOSED LOCATION TO SAME START'  April 1, 1999  26 ROTARY OR CABLE TOOLS  ROLLY  330 FOR OF APPLIED FOR N THIS LEASE, FT  SOO!  27 APPROX DATE WORK WILL START'  April 1, 1999  28 SUZE OF HOLE  SUZE OF HOLE  SUZE OF HOLE  SUZE OF ASING  WEIGHTFOOT  SETTING DEFTH  36 CLIF, CI'B''  SUBJECT TO COMPLIANCE WITH ATTACHED  TO SAME SUBJECT TO COMPLIANCE WITH ATTACHED  TO SAME SUBJECT TO COMPLIANCE WITH ATTACHED  TO COMPLIANCE WITH ATTACHED  TO COMPLIANCE WITH ATTACHED  THIS location has been archaeologically surveyed by La Plata Archeological Consultants. Copies of their report he submitted directly to your office.  This location has been archaeologically surveyed by La Plata Archeological Consultants. Copies of their report he submitted directly to your office.  This location is located on fee surface and a surface owners agreement is attached with this APD.  IN ABONE SPACE DESCRIBE PROPOSED PROORAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone and proposed new productive zone and proposed new productive zone. If proposal is to deepen or plug back		A15 F Main St Farn	nington, NM 87402	(505) 327-4892	Twin Mound	is PC
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In mile north of Kirrland, NM  Is DISTANCE FROM PROPOSED LOCATION* TO NEAREST PROPERTY OR LEASE LINE, FT. (Asso to nearest sign with last, if any)  Is DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL. DRILLING, COMPLETED, OR APPLED FOR ON THIS LEASE, FT. DRILLING, COMPLETED, OR APPLED FOR ON THIS LEASE, FT.  19 PROPOSED DEPTH  20 ROTARY OR CABLE TOOLS Rotary 1975  21 ELEVATIONS (Show whether DF, RT, GR, etc.)  3320' GR  22 APPROX DATE WORK WILL START* April 1, 1999  23 PROPOSED CASING WEIGHTFOOT SETTING DEPTH  3320' 3520' GR  3-3/4" 7" 20# 120' 36 cu.ft. Cl. "B" QUANTITY OF CEMENT.  6-1/4" 4.5" 10.5# 800' 113 cu.ft. w/ 2% metasilikate  7" 20# 120' 13 cu.ft. w/ 2% metasilikate  10 SPILLING OPERA **COMPLIANCE WITH ATTACHED  11 Surject of Very Company proposes to drill a vertical well to aevelop the Pictured Cliffs  formation at the above described location in accordance with the attached drilling and surface use plans.  This location has been archaeologically surveyed by La Plata Archeological Consultants. Copies of their report h  submitted directly to your office.  This location is located on fee surface and a surface owners agreement is attached with this APD.  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.  IT proposel is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.  20 SIGNED  APPROVAL DATE  TITLE Paul C. Thompson, Ager. DATE  2/22/98  TITLE Paul C. Thompson, Ager. DATE  2/22/98  APROVAL DATE  THE MAR   0 1999	A DISTANCE IN MILES AND DIRECT	ION FROM NEAREST TOWN OR	POST OFFICE*		12. COUNTY OR PA	1, -, -
5 DETANCE FROM PROPOSED LOCATION TO NEAREST PROPERTY OR LEASE LINE. FT (Allo to nearest dig unit line. if any)  827  8 DISTANCE FROM PROPOSED LOCATION TO NEAREST WELL. 19 PROPOSED DEPTH 2523.72  8 DISTANCE FROM PROPOSED LOCATION TO NEAREST WELL. 19 PROPOSED DEPTH 800'  8 ELEVATIONS (Show whether DP, RT, GR, etc.)  5320' GR  8 SIZE OF HOLE SIZE OF CASING AND CEMENTING PROGRAM  8 SIZE OF HOLE SIZE OF CASING WEIGHT/POOT SETTING DEPTH 4.5"  8 3-3/4" 7" 20# 120' 36 c.u.f. C.l' "B"  8 -3/4" 7" 20# 120' 36 c.u.f. C.l' "B"  8 -3/4" 7" 30.5# 800' 113 c.u.f. w/ 2% metastilikate 100 conduint review pursuant to 43 CFR 3166.3.  10 BRILLING OPERA 7:0N A AUTHORIZED ARE 100 conduint at the above described location in accordance with the attached drilling and surface use plans.  11 Shocation has been archaeologically surveyed by La Plata Archeological Consultants. Copies of their report h submitted directly to your office.  11 This location is located on fee surface and a surface owners agreement is attached with this APD.  11 Show 10 Sepace Describe Proposed Program: it to deepen or plug back, give data on present productive zone and proposed new productive zone. It proposal is to define deepen directionally, give pertinent data on subsurface locations and measured and true vertical deepths. Give blowout preventer program, if any.  11 Show 10 Sepace for Federa or State office use)  12 APPROVAL DATE  13 SETTING PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. It proposal is to define or program, if any.  12 SIGNED APPROVAL IF ANY.  13 SIGNED APPROVAL IF ANY.  14 SETTILE APPROVAL IF ANY.  15 SETTING PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. It proposal is to define a popular or certify that the applicant holds legal or equitable tule to those rights in the subject lease which would emitte the applicant to conduct operations thereon.  14 SETTILE APPROVAL IF ANY.  15 S	1 mile norti	h of Kirtland, NM				
OR LEASE LINE, FT (Also to nearest deg multime, if any)  822'  18 DISTANCE FROM PROPOSED LOCATION TO NEAREST WELL. DRILLING, COMPLETED, OR APPLIED FOR ON THIS LEASE, FT.  19 PROPOSED DEPTH  800'  ROTARY OR CABLE TOOLS  ROTARY OR	5 DISTANCE FROM PROPOSED* LO	CATION TO NEAREST PROPERT	Y 16. NO. OF ACRES IN LEAS	E	17. NO. OF ACRES ASSIG	SNED TO THIS WELL
IR DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR ON THIS LEASE, FT.  1975' 21 ELEVATIONS (Show whether DF, RT, GR, etc.) 5320' GR  PROPOSED CASING AND CEMENTING PROGRAM  SIZE OF HOLE SIZE OF CASING SIZE OF CASING  SIZE OF HOLE SIZE OF CASING SIZE OF HOLE SIZE OF CASING SIZE OF CASING SIZE OF HOLE SIZE OF CASING SIZE OF CASIN	OR LEASE LINE, FT. (Also to nearest	drlg. unit line, if any)		3 72	160	
BILLING COMPLETED, OR APPLED FOR ON THIS LEASE, FT.  1975' 21 ELEVATIONS (Show whether DF, RT, GR, etc.)  320' GR  PROPOSED CASING AND CEMENTING PROGRAM  22. APPROX DATE WORK WILL START* April 1, 1999  23. PROPOSED CASING AND CEMENTING PROGRAM  24. SIZE OF HOLE  SIZE OF HOLE  SIZE OF HOLE  SIZE OF CASING  WEIGHTFOOT  SETTING DEPTH  QUANTITY OF CEMENT,  36 cu ft. Cl "B" Suppose  G-1/4" 4.5" 10.5# 800' 113 cu ft. w/ 2% metasilikate  OF COCCUMBIT FEVIEW pursuant to 45 CFR 3186.4. "GENERAL REQUIREMENTS"  Procedural review pursuant to 45 CFR 3186.4. "GENERAL REQUIREMENTS"  Richardson Operating Company proposes to drill a vertical well to develop the Pictured Cliffs formation at the above described location in accordance with the attached drilling and surface use plans.  This location has been archaeologically surveyed by La Plata Archeological Consultants. Copies of their report h submitted directly to your office.  This location is located on fee surface and a surface owners agreement is attached with this APD.  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 proposil is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.  TITLE Paul C. Thompson, Ager. DATE 2/22/98    MAR 1 0 1999   MAR 1		ATTONIO TO NEAR PERT WELL			20. ROTARY OR CABLE	TOOLS
22. APPROX DATE WORK WILL START* April 1, 1999  23. PROPOSED CASING AND CEMENTING PROGRAM  SIZE OF HOLE  SIZE OF CASING  SIZE OF HOLE  SIZE OF CASING  WEIGHTFOOT  8-3/4"  7"  20#  120"  36 cu.ft. Cl "B"  Subject to technical and rocedural review pursuant to 43 CFR 3166.3.  PROPOSED TO COMPLIANCE WITH ATTACHED  Appled above described location in accordance with the attached drilling and surface use plans.  This location has been archaeologically surveyed by La Plata Archeological Consultants. Copies of their report h submitted directly to your office.  This location is located on fee surface and a surface owners agreement is attached with this APD.  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 deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to delight of the proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to delight or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.  TITLE Paul C. Thompson, Ager. DATE  APPROVAL IF ANY.  Team Lead, Petroloum Management  DATE  MAR 10 1999  APPROVAL DATE  DATE  MAR 10 1999	18. DISTANCE FROM PROPOSED LOC DRILLING, COMPLETED, OR APPI	LIED FOR ON THIS LEASE, FT.			D - 4	
April 1, 1999  33. PROPOSED CASING AND CEMENTING PROGRAM  SIZE OF HOLE SIZE OF CASING WEIGHTFOOT SETTING DEPTH QUANTITY OF CEMENT.  8-3/4" 7" 20# 120' 36 cu.ft. Cl "B" Surface of Conference of Confe			800	/ 		THORK WILL CTARTS
SIZE OF BOLE  SIZE OF BOLE  SIZE OF CASING  SI		, GR, etc.)				
SIZE OF HOLE  8-3/4"  7"  20#  120'  36 cu.ft. Cl "B"  36 cu.ft. Cl "B"  37 cu.ft. Cl "B"  38 cu.ft. Cl "B"  39 cu.ft. Cl "B"  30 cu.ft. Cl "B"  39 cu.ft. Cl "B"  39 cu.ft. Cl "B"  36 cu.ft. C		PROPOSED CAS	ING AND CEMENTING	PROGRAM		
8-3/4" 7" 20# 120' 36 cutf. Ct B" Support 6-1/4" 4.5" 10.5# 800' 113 cutf. w/ 2% metasilikate concedural review pursuant to 43 CFR 3186.3. Subject to technical and appeal pursuant to 43 CFR 3186.3. Subject TO Compliance with ATTACHED  Richardson Operating Company proposes to drill a vertical well to develop the Pictured Cliffs formation at the above described location in accordance with the attached drilling and surface use plans.  This location has been archaeologically surveyed by La Plata Archeological Consultants. Copies of their report h submitted directly to your office.  This location is located on fee surface and a surface owners agreement is attached with this APD.  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 preventer program, if any.  ITILE Paul C. Thompson, Ager. DATE 2/22/98  TITLE Paul C. Thompson, Ager. DATE 2/22/98  MAR 1 0 1999  MAR 1 0 1999				SETTING DEPTH		
his action is subject to technical and rocedural review pursuant to 43 CFR 3168.3.  This appeal pursuant to 43 CFR 3168.4.  Richardson Operating Company proposes to drill a vertical well to develop the Pictured Cliffs formation at the above described location in accordance with the attached drilling and surface use plans.  This location has been archaeologically surveyed by La Plata Archeological Consultants. Copies of their report he submitted directly to your office.  This location is located on fee surface and a surface owners agreement is attached with this APD.  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 preventer program, if any.  ITHE Paul C. Thompson, Ager. DATE  APPROVAL DATE  TITLE Paul C. Thompson, Ager. DATE  MAR 1 0 1999  MAR 1 0 1999  MAR 1 0 1999			20#	120'		
DRILLING OPERATIONS AUTHORIZED ARE SUBJECT TO COMPLIANCE WITH ATTACHED TO appeal pursuant to 43 CFR 3165.4.  Richardson Operating Company proposes to drill a vertical well to develop the Pictured Cliffs formation at the above described location in accordance with the attached drilling and surface use plans.  This location has been archaeologically surveyed by La Plata Archeological Consultants. Copies of their report he submitted directly to your office.  This location is located on fee surface and a surface owners agreement is attached with this APD.  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 preventer program, if any.  124.  SIGNED Paul Archeological Consultants Copies of their report he submitted and the vertical depths. Give blowout preventer program, if any.  124.  TITLE Paul C. Thompson, Ager.  APPROVAL DATE  APPROVAL DATE  APPROVAL DATE  APPROVAL DATE  MAR 1 0 1999  MAR 1 0 1999  MAR 1 0 1999  MAR 1 0 1999		4.5"	10.5#	800'	113 cu.ft.w/	2% metasilikate Jula
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 preventer program, if any.  24.  SIGNED Paul C. Thompson, Ager. DATE 2/22/98  (This space for Federal or State office use)  PERM T NO.  Approval DATE  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:  ADBROVED BY  ISID Duane W. Spencer  TITLE  MAR 1 0 1999	nd appeal pursuant to 43 Richardson Operating formation at the above  This location has been submitted directly to yo	CFR 3168.4. Company proposes described location is archaeologically super office.	to drill a vertical win accordance with	REMENTS" ell to develop the the attached drill Archeological Co	Pictured Cliffs ing and surface onsultants. Copi	es of their report have b
ADDRIVED BY S Duane W. Spencer TITLE DATE PLATE 1	IN ABOVE SPACE DESCRIBE PI If proposal is to drill or deepen dire 24.  SIGNED Parallel  (This s bace for Federal or State office PERM T NO Application approval does not warran	ROPOSED PROGRAM: If proctionally, give pertinent data on the cuse)	posal is to deepen or plug back subsurface locations and mea  TITLE Po	s, give data on present productions and true vertical depth and C. Thompson,	Ager. DATE  1 0 1999	new productive zone. ter program, if any.  2/22/98  duct operations thereon.
*See Instructions On Reverse Side	101 D	iane W. Spencer	TITLE		DATE NA	N 1 U 1333
	VILIVIAED DI	*	See Instructions O	n Reverse Side		

Title 13 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 any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.



District I PO Bus 1980, Hubba, NM 88241-1980 District II PO Desurer DD, Artonio, NM 88211-8718 District III 1998 Ma Bruma Rd., Astec, NM 87416

## State of New Mexico Energy, Massesh & Natural Resources Department

Form C-102
Revised February 21, 1994
Instructions on back
Submit to Appropriate District Office
State Losse - 4 Copies
Fee Lesse - 3 Copies

## OIL CONSERVATION DIVISION PO Box 2088 Santa Fe, NM 87504-2088

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30-04	<del></del>	7850	₹		* Property				Well Number
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OLAIDI			ם דרים	A DDSON	TTARTO 1	Name NG COMPANY		į	5290'
01921	9		RICE	ANDUOL	<sup>10</sup> Surface				
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	<u> </u>	<del></del>	11 Bot	tom Hole	E Location 1	f Different Fro	om Surface		
UL or int sq.	Section	J'ewaship	Range	lat Ida	Feet from the	North/South line	Fast Irus the	East/West line	Causty
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