perator James L. Ludwick

P. O. Box 2088 SANTA FE, NEW MEXICO 87501

Well Name and No.

AUM I	INISTRATIVE	ORDER
NFL	56	

Jicarilla Well No. 6-J

INFILL DRILLING FINDINGS PURSUANT TO SECTION 271.305(b) OF THE FEDERAL ENERGY REGULATORY COMMISSION REGULATIONS, NATURAL GAS POLICY ACT OF 1978 AND OIL CONSERVATION DIVISION ORDER NO. R-6013-A

cation: Unit O Sec. 28 Twp. 24N Rng. 5W Cty.	Rio Arriba	
•		
E DIVISION FINDS:		
That Section 271.305(b) of the Federal Energy Regulatory Commissions remain to the Natural Gas Policy Act of 1978 provides that, in order a new onshore production well under Section 103 of said Act, the Difill well is necessary to effectively and efficiently drain a portion the provident unit which cannot be so drained by any existing well) That by Order No. R-6013-A, dated February 8, 1980, the Division	r for an infill wellivision must find the reservoir within that unit.	l to qualify hat the covered
ocedure whereby the Division Director and the Division Examiners are vision and find that an infill well is necessary.	e empowered to act	for the
That the well for which a finding is sought is completed in the		Cliffs
Pool, and the standard spacing unit in said pool is	160	acres.
) That a 160 -acre proration unit comprising the		
Sec. 28 , Twp. 24N , Rng. 5W, is currently dedic	cated to the James	s L. Ludwick
Jicarilla Well No. 6 located in Unit I of said sect		
) That this proration unit is (X) standard () nonstandard; if nonsproved by Order No.	standard, said unit	was previous
) That said proration unit is not being effectively and efficiently ll(s) on the unit.	y drained by the ex	isting
) That the drilling and completion of the well for which a finding	is sought should re	esult in
e production of an additional 125,000 MCF of gas from the pherwise be recovered.	proration unit which	n would not
) That all the requirements of Order No. R-6013-A have been complice which a finding is sought is necessary to effectively and efficient servoir covered by said proration unit which cannot be so drained by it.	ntly drain a portion	n of the
) That in order to permit effective and efficient drainage of said plication should be approved.	provation unit, the	a subject
IS THEREFORE ORDERED:	·	•
That the applicant is hereby authorized to drill the well described in Section II(4) or infill drilling granted by this order is necessary to permit the esservoir covered by said proration unit which cannot be effectively by existing well thereon.	above. The author: drainage of a portic	ization on of the
) That jurisdiction of this cause is retained for the entry of such vision may deem necessary.		the .
NE at Santa Fe, New Mexico, on this 17th day of August	, 1982	
Jan Share		
DIVISION DIRECTOR	EXAMINER	
	•	•

A 6109 DEL CAMPO PLACE, N.E.

CLAUDE C. KENNEDY INDEPENDENT OIL AND GAS OPERATOR April 12, 1982



New Mexico OCD
Attn: Mr. Michael Stogner
P.O. Box 2088
Santa Fe. New Mexico 87501

Re: APPLICATION FOR ADMINISTRATIVE
APPROVAL OF NFL ORDER for:
James L. Ludwick
6-J Jicarilla
Unit 0, 800'FSL, 1520'FEL,
Section 28, T24N, R5W,
Rio Arriba County, New Mexico.

Gentlemen:

This application is filed in order to qualify the subject well for the section 103 gas price.

The attached data is furnished to aid in this determination.

Please advise if any additional information is required.

Thanking you, I remain

Very truly yours.

Claude C. Kennedy

Agent for:

James L. Ludwick

CLAUDE C. KENNEDY INDEPENDENT OIL AND GAS OPERATOR April 12, 1982

APR 1 4 1982
OIL CONSENTA FE

Rule 5: Proration Unit:

T24N, R5W, Section 28: $SE_{4}^{\frac{1}{4}}$

C-101 & C-102 attached.

Rule 6: Pool: Ballard Pictured Cliffs.

Rule 7: Standard Location.

Rule 8: Original Proration Unit Well:

Jay J. Harris 6- Jicarilla

Unit I, 1650'FSL, 790'FEL,

Sec. 28, T24N, R5W.

Spud:

4-1-1955

Complete:

5-18-1955

During the year 1981 this well ceased to produce and the Proration Unit was purchased by James L. Ludwick.

Operator, James L. Ludwick re-entered this well on 10-23-1981. It was determined that the well was logged off by fluid. Due to the original open hole completion, it required five (5) days to reach original TD 2219 because of the slumping and caving hole conditions encountered.

The 2-3/8 tubing was replaced with a string of 1 inch tubing landed at 2170 and the well was returned to production on 10-30-1981.

Delivery against current line pressure shows an average of 30 MCF per day.

Rule 8:

In-Fill Proration Unit Well:

James L. Ludwick 6-J Jicarilla

Unit 0, 800'FSL, 1520'FEL,

Sec. 28, T24N, R5W.

Spud:

12-12-1981

Complete:

3-22-1982

When this in-fill well reached TD 2295, the attempt to run electric logs failed due to heaving, caving hole conditions.

CLAUDE C. KENNEDY INDEPENDENT OIL AND GAS OPERATOR

Page - 2

April 12, 1982

Gamma Ray Casing Collar Locator log was run, the casing was selectively perforated, and the formation was stimulated with a fracture treatment using 500 barrels of N2 Foam and 50,000 pounds of sand.

During the clean out proceedure the hole on several occasions filled with sand. While attempting to clean out, it was determined that a 3 foot coal lens was present some 10 feet below the main Pictured Cliffs coal marker.

Due to drainage, this coal lens is re-acting as a "thief zone" in the new well.

This "thief zone" theory is evident due to complete lost returns during the clean out proceedure while using air. With the bottom of the hole sanded off, it was impossible to build pressure after several hours blowing air into this zone which is present at 2185-88.

Rule 8: g. Need for In-Fill Well:

A detailed geological and engineering study was made of all wells within $l^{\frac{1}{2}}$ miles of the subject proration unit.

Within this study area, wells have been completed from a minimum of 14 feet to a maximum of 82 feet.

The isopac map attached shows that the subject well is located in the area indicating a Pictured Cliffs thickness in excess of 60 feet.

The original proration unit well exposed only the upper 41 feet of the Pictured Cliffs zone to production.

It was concluded that the In-Fill well was required to effectively and efficiently drain the bottom 41 feet of the Pictured Cliffs which appears to be present in this locality.

Rule 9: Structure Map Attached
Isopac Map Attached

EXPECTED INCREASED ULTIMATE RECOVERY: 125 MMCF

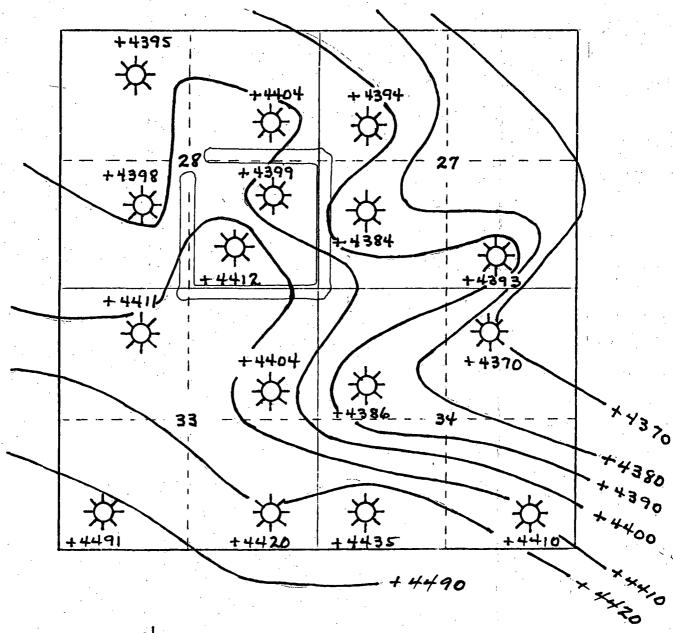
We arrive at the above figure, expecting to deliver 25% of 250 mcf potential, projecting a 10% decline over 10 years.

Rule 11: El Paso Natural Gas Company is the Opemator of all direct offset wells.

El Paso Natural Gas Company has been notified of this application by Certified Mail.

PICTURED CLIFFS - CONTOURS

SCALE IM. = 1000 FT.



28 27
SECTION: 33 34 TOWNSHIP 24-NORTH RANGE 5-WEST

STATE NEW MEXICO COUNTY RIO ARRIBA

PICTURED CLIFFS ISOPAC

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RIPLICATE Form approved. Rudget Bureau N

5. LEASE DESIGNATION AND BERIAL NO.

UNITED	STATES	
DEPARTMENT OF	THE INTERIOR	ú,
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GEOLOGICA	I CHOVEY	

	GEC	LOGICAL SUR	/EY			Jicarilla Con	tract #12
APPLICATION	Y FOR PERMI	T TO DRILL,	DEEPE	N, OR PLUG I	BACK	G. IF INDIAN, ALLIGITE Jicarilla Tri	
DRI TYPE OF WELL	rr ixx	DEEPEN		PLUG BA	ск 🗆	7. UNIT AGREEMENT	
	ка XX отню			NGLE ZONE	H.K	Jicarilla	ME
		s L. Ludwick				9. WELL NO.	
3. ADDRESS OF OPERATOR		. Box 70		0.01		1-J	
	Farm	ington, New	Mexico	87401		10. FIRLD AND POOL,	
4. LOCATION OF WELL (R	eport location clearly	and in accordance w	lth any S	tate requirements.*)		Ballard Pictu	red Cliffs
800° FSL, 1520° FEL						11. SEC., T., B., M., OR AND SURVEY OR A	
At proposed prod. zon		Sec. 28, T24N, R5W					
14. DISTANCE IN MILES /	northeast C					12. COUNTY OR PARISH Rio Arriba	New Mexico
15. DISTANCE FROM PROPO LOCATION TO NEAREST PROPERTY OR LEANE I. (Also to nearest drig	HED*	800	[16. NO.	OF ACRES IN LEASE 2560		PE ACRES ANNIGNED HIS WELL 160	The House
18. DISTANCE FROM PROP TO NEAREST WELL, DI OR APPLIED FOR, ON THI	RILLING, COMPLETED,	1200'	19. TR	PC	1 _	. OR CABLE TOOLS	
21. ELEVATIONS (Show whe	ther DF, RT, GR, etc	6	592	GR.	·············	22. APPROX. DATE WG	BE WILL START
23.	- 		····	CEMENTING PROGR.	A M	1	
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER	root I	NETTING DEPTH		QUANTITY OF CEME	
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6 1/4	2 7/8	6.5#		2400		00 sx	<u> </u>
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See NTL-6 Attachments

Gas is dedicated: EPNG

reventer proposal is		deepen direction	lly, give perti	nent dati	a on subsurface tocations are		true verti	car deptus. Give blov	, ou
SIGNED Ha	~ (1	· Anna	ly	TITLE	Agent	:	DATE	10-26-1531	;
(This space for	Federal or S	tate office use)	T					· · · · · · · · · · · · · · · · · · ·	=1
PERMIT NO				<u> </u>	APPROVAL DATE				
								,	
APPROVED BY	4		·	TITLE		· · · · · · · · · · · · · · · · · · ·	DATE		

OIL CONSERVATION DIVISION

STATE OF NEW MEXICO ENERGY AND MINERALS DEPARTMENT

P. O. BOX 2088
SANTA FE, NEW MEXICO 875

Form C-102 Revised 10-1-78

All distances must be from the cuter hausdaries of the Section.

Well No. Operator 1 = J**JICARILLA JAMES** Unit Letter Section Township County Romae **2MN** Rio Arriba Actual Footage Location of Well: 1520 800 South feet from the feet from the line and Ground Level Elev. Producing Formation Dedicated Acreage: Ballard Pictured Cliffs Pictured Cliffs 160 6592 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? 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 he est of my knowledge and letief. Claude C. Kenned Position Agent James L. Ludwick Sec. Date October 26, 1981 I hereby certify that the well location 28 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 15201 IN-FILL WELL Octobe 660 1320 2000 1500 1000 16 50 1980 2310

-	for the second second	C.C. K. COPY
Form 9-331 (May 1963) UN	ITED STATES SUBMIT IN TRIPLICATE.	Form approved.
	T OF THE INTERIOR (Other Instruction on re-	Budget Bureau No. 42-R1424. 5. LEASE DESIGNATION AND SERIAL NO.
GEO	LOGICAL SURVEY	Jicarilla Contract 12
SUNDRY MOTICE	S AND REPORTS ON WELLS	6. IF INDIAN, ALLOTTEE OR TRIBE NAME
	.5 AND KET ONIS OIN WELLS to drill or to deepen or plug back to a different reservoir. N FOR PERMIT—" for such proposals.)	591 601 613 614 615
	N FOR PERMIT—" for such proposals.)	Jicarilla Tribal
1. OIL GAS (Y)		7. UNIT AGREEMENT NAME TO THE
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2. NAME OF OPERATOR	*	8. FARM OR LEASE NAME 2019
	Ludwick	Jicarilla = 5 5
F.U. DU.	ton, New Mexico 87401	#1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
4. LOCATION OF WELL (Report location clear	y and in accordance with any State requirements.	10. FIELD AND POOL, OR WILDCAT
See also space 17 below.) At surface	•	Ballard Pictured Cliffs
1650•	FSL, 790° FEL	11. SEC., T., B., M., OR BLK. AND
		BURYEY OR AREA
		Sec. 28, T24N, R5W
14. PERMIT NO.	5. ELEVATIONS (Show whether DF, ET, GR, etc.)	12. COUNTY OR PARISH 13. STATE
	6574 Gr	Rio Arriba New Mex.
16. Check Appro	priate Box To Indicate Nature of Notice, Report, or O	ther Data # 55 8 55
NOTICE OF INTENTIO		ther Data History Body
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 	TIPLE COMPLETE PRACTURE TREATMENT	ALTERING CASING
.]]	NOR PLANS SHOOTING OR ACIDIZING (Other) Return to P	roduction X
(Other)	(Note: Report results	of multiple completion on Well - a
17. DESCRIBE PROPOSED OR COMPLETED OPERAT	IONS (Clearly state all pertinent details, and give pertinent detec	including estimated date of starting any
proposed work. If well is directionall nent to this work.) •	y drilled, give subsurface locations and measured and true vertica	depths for all markers and sones perti-
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TOTAL DEPTH	2219	
10-23-1981	MICT - Pull Tubing,	Learning Comments of the Comme
10-24	Well logged off w/fluid - unloaded hol	Aves are for in the first term of the first term
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10-26	Attempting to clean out at 2190,	
10-27	Stuck in cave at 2200,	to mental to a summer of the s
10–28	Cleaning out at 2200, Open hole caving	Bully State of the
10-29	Open hole continues to cave,	august Carana Ca
. 20 27	Ran 1" tubing @ 2170,	무취임 출킨 사람이 원론 모다
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18. I hereby certify that the foregring is tri	and correct	55745 52 5 455
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APPROVED BY	TITLE	DATE DATE
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			SALES AND RIDGE TO SERVIT			reservoir.	6. IF INDIA	n, allottee 111a Tr	or TRIBE NAME
	WELL GAS	L A OTHER					7. UNIT AG	EDEMBNT NA	MB
2.	NAME OF OPERATO	The second second	L. Ludwick				_	icarill	a
3.	ADDRESS OF OPERA	F.U.	Box 70 ngton, New Me	exico 8740	1	•	9. WELL NO	6 - J	
	LOCATION OF WELL See also space 17 At surface	(Report location below.)	elearly and in according to the second of th	ince with any Stat		8.•	Ballard	Pictur	ed Cliffs
•							Sec. 28	BY OR AREA	
14.	PERMIT NO.		15. ELEVATIONS (SI	how whether DF, BT.	GR, etc.)		_	OR PARISH	
17. 1	SHOOT OR ACIDIZE REPAIR WELL (Other) DESCRIBE PROPOSE		ABANDON* CHANGE PLANS ERATIONS (Clearly stationally drilled, give s	te all pertinent de	(Other) Si (Noti Comp	or acidizing urface Cas E: Report results eletion or Recomp pertinent dates	ing of multiple letion Report	and Log for	m.)
	nent to this work	k.) •				i and true vertic	nt debine for	un markers	and somes bein
		To comply	L NO. FROM: with request	1-J to 6- from N.M.O					
		Spud: 12-	12-1981	•	· ·				
			7" casing, 2 2% CaCl, cir			emented 65	sacks,		
^			P.M., 12-12- ied, witness		t .			• *	
	.*	12-18-1981	: Drilling @	2 1700'		•	. :		

16.

DEPARTMENT OF THE INTERIOR

SUBMIT IN TRIPL (Other instructions verse side)

Form approved. Budget Bureau No. 42-R1424 5. LEASE DESIGNATION AND SERIAL NO.

GEOLOGICAL SURVEY

Jicarilla Contract #12

(Do not use this form Use	for proposals to drill or to deepen or plug back to a different reservoir. "APPLICATION FOR PERMIT—" for such proposals.)	Jicarilla Tribe
OIL GAS X	OTHER	7. UNIT AGREEMENT NAME
2. NAME OF OPERATOR		8. FARM OR LEASE NAME
	James L. Ludwick	Jicarilla
3. ADDRESS OF OPERATOR	P.O. Box 70	9. WELL NO.
•	Farmington, New Mexico 87401	6 - J
4. LOCATION OF WELL (Report See also space 17 below.)	location clearly and in accordance with any State requirements.	10. FIELD AND POOL, OR WILDCAT
At surface	Occupat 1.000 tops	Ballard Pictured Cliffs
	800°FSL, 1520°FEL	11. SEC., T., E., M., OR BLK. AND SURVEY OR AREA
		Sec. 28, T24N, R5W
14. PERMIT NO.	15. ELEVATIONS (Show whether DF, RT, GR, etc.)	12. COUNTY OR PARISH 13. STATE
	6000 cm	Dio Armi ha Nov Mord on

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

NOT	ICE OF I	NTENTION TO:	SUBSEQUENT REPORT OF:				
TEST WATER SHUT-OFF		PULL OR ALTER CASING		WATER SHUT-OFF REPAIRING WELL	_		
FRACTUBE TREAT		MULTIPLE COMPLETE		FRACTURE TREATMENT ALTERING CASING			
SHOOT OR ACIDIZE	<u> </u>	ABANDON*		SHOOTING OR ACIDIZING ABANDONMENT*			
REPAIR WELL		CHANGE PLANS		(Other) Production Casing	•		
(Other)				(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.) •

12-22-1981 TD 2295 Unable to run electric logs due to heaving, caving hole conditions.

PB 2285' Wait on Completion, TD 2295° 12-23-1981 Ran 79 jts, J-55, New, 2-7/8 casing, 6.5#, 2296' landed @ 2295', cemented with 200 sacks, Class B cement, 2% CaCl, good circulation during jog. Cement did not circulate. P.D. @ 5:00 P.M., 12-23-1981. Ran Bond log. Cement top at 1025

	<u></u>					<u> </u>
SIGNED Land			Agent		DATE 12-	29-1981
(This space for Federal or	State of	<i>D</i>				
APPROVED BY	AL. IF ANY:	TITLE			DATE	

UNITED STATES DEPARTMENT OF THE INTERIOR (Other instruction reverse side) GEOLOGICAL SURVEY

Form approved.
Budget Bureau No. 42-R1424.
5. LEASE DESIGNATION AND SERIAL NO.

	JICAR	ILLA	CON	TRAC	T #1	.2
6.	IF INDIAN.	ALLOTTI	CE OR	TRIBE	NAME	

011110	NA MOTISTS AND DEDO	DTO ON MELLO	6. IF INDIAN, ALLOTTEE OR TRIBE NAME
	ry notices and repoi	·	
(Do not use this for	m for proposals to drill or to deepen or se "APPLICATION FOR PERMIT—" for	r plug back to a different reservoir.	TTGADTILA MOTOR
	E ATTEMATION FOR TEMET	- addi proposito.	JICARILLA TRIBE
1. OIL GAS T			7. UNIT AGREEMENT NAME
WELL WELL	OTHER		
2. NAME OF OPERATOR			8. FARM OR LEASE NAME
	James L. Ludwick		JICARILLA
3. ADDRESS OF OPERATOR	P.O. Box 70		9. WELL NO.
		- Onlina	
4	Farmington, New Mexic		6 - J
See also space 17 below.)		ith any state requirements.	10. FIELD AND POOL, OR WILDCAT
At surface			Ballard Pictured Cliffs
	800'FSL, 1520'F	EL	11. SEC., T., B., M., OR BLK. AND SURVEY OR AREA
			JUNE VE BEER
			Sec. 28, T24N, R5W
14. PERMIT NO.	15. ELEVATIONS (Show wh	ether pr. st. cs. etc.)	12. COUNTY OR PARISH 18. STATE
		6592 Gr.	
			Rio Arriba New Mexico
16.	Charle Annuary Boy To Indi	cate Nature of Notice, Report, or C	When Dave
· ·	Check Appropriate Box to make	care radiure or radiice, Report, or C	omer Daid
NOT	ICE OF INTENTION TO:	subsequ	JENT REPORT OF:
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TEST WATER SHUT-OFF	PULL OR ALTER CASING	WATER SHUT-OFF	BEPAIRING WELL
FRACTURE TREAT	MULTIPLE COMPLETE	FRACTURE TREATMENT X	ALTERING CASING
SHOOT OR ACIDIZE	ABANDON*	BHOOTING OR ACIDIZING	ABANDONMENT*
REPAIR WELL	CHANGE PLANS	(Other)	
(Other)		(Note: Report results	of multiple completion on Well etion Report and Log form.)
17 PRECEIPE PROPERT OF CO.	MDI EMPO ODERAMIONO (Closula utata alla	pertinent details, and give pertinent dates,	
50 50	2242, 2244, 2256, 2259, ac 2181-2262 0 Barrels N ₂ FOAM, ,000 # Sand, P 2600, TP 2000,	2233, 2236, 2239, 2248, 2251, 2254, 2262, Total 40 holes.	
•			
	1		
	\n_\(\)		
8. I hereby bettly that the	La Knew dy TITLE	g Agent	DATE 1-25-1982
(This space for Federal	or State office (ad)		
APPROVED BY	TITLE	e e	DATE
CONDITIONS OF APPR	OVAL, IF ANY:	Y	DATA

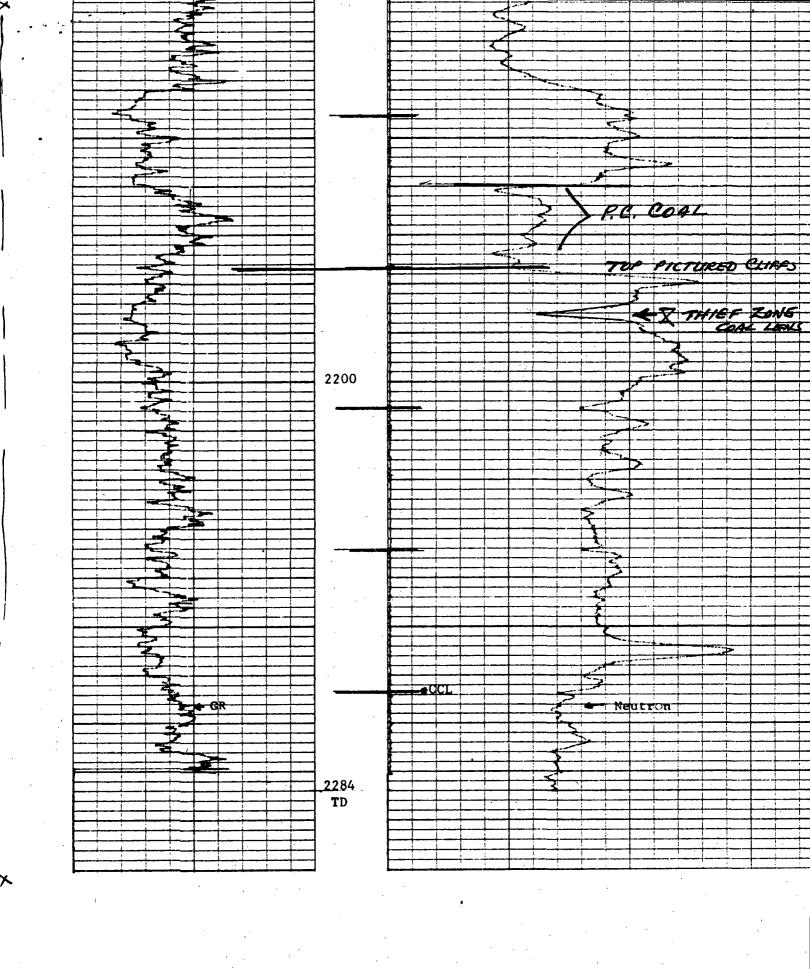
Form approved. Budget Bureau No. 42-R855.5.

							`	revers	e side)	5. LEASE DESI	CNATION	AND SERIAL NO.
		GEO	LOGIC	AL SU	IRVEY			•		Jicaril	.la Cc	ontract -12
WELL CO	ADI ETION	OP	DECO	ADI ET	ION F	PEDODT	ΔN	D I OC	<u> *</u>	6. IF INDIAN,	ALLOTTE	E OR TRIBE NAME
					1011	CL OK!		D LOC		Jicaril	la Tr	ribe
1a. TYPE OF WEL	L: OII	ււ 📙	WELL G	<u>X</u>]	PRY L	Other		.	<u> </u>	7. UNIT ACREE	MENT NA	AMB
b. TYPE OF COM		·					-				r I'	
WELL X	OVER DE	EP-	BACK C	DIE	SVB.	Other				8. FARM OR LI	LASE NAD	MID),
2. NAME OF OPERAT	on .		 			1 2 2 2] J1	caril	lla 🗆 🗀
	James	I.	Ludwick	r						9. WELL NO.		공4 : 10 H 1
8. ADDRESS OF OPER	LATOR P.O.	Box	70			٠,					6 - J	
				Mevic	~ 87h	Δī				10. FIELD AND	POOL, O	R WILDCAT
4. LOCATION OF WEI	L (Report locat	ion clea	rly and in	accordance	e with an	y State requir	emen	ta)+		Rallam	Pi otu	red Cliffs
At surface			800'FSI							11. SEC., T., R.,	M., OR B	FOCK THE STRABA
			Same	-, - <i>)</i>					l	OR AREA	in the	See to Company
At top prod. int	erval reported b	elow				•					7 11	
At total depth	Same		:					- : · · · · · · · · · · · · · · · · · ·		Sec. 28,	ጥ շ/ኒአ	D EU
	Danie			14 P	ERMIT NO.		DATE	ISSUED		12. COUNTY OF		18. STATE
				1	BBM11 110.	1		.55022		PARISH	'. I	
·			'	<u></u>						Rio Arri		New Mexic
5. DATE SPUDDED	16. DATE T.D.	BBACHE:	D 17. DAT	B COMPL.	(Ready to	prod.) 18.	ELE	VATIONS (D	f, RKB,	BT, GB, ETC.)	. !-	V. CASINGHEAD
12-12-81	12-22-8	1	3-	-22-19	82			6592 G	r.	j_		593
20. TOTAL DEPTH, MD	A TVD 21. PL	UG, BACI	K 7.D., MD &	TVD 2	2. IF MUL HOW M	TIPLE COMPL.,	•	28. INTE	RVALS LED BY	BOTARY TOOLS		CABLE TOOLS
TD 2295		PB :	2285 📒		20				→	0-2285	, .	
24. PRODUCING INTER	VAL(8), OF THIS	COMPI	ETION—TOP	P, BOTTOM	, NAME (b	4D AND TVD)*			; 		25, w	AS DIRECTIONAL UBVEY MADE
•											1	ORANI WYDD
	, 21	81-2	262 Pic	tured	Cliff	S					1 5	Yes
6. TYPE ELECTRIC A	ND OTHER LOCA	DIIN						- 1;	····	1 2	7. WAS	WELL CORED
;	IND UILBE DOGS	BUN		an aa	T		:	:				
· ·				GRCC			<u> </u>					<u>No</u>
28.						ort all strings	set i			4 3		
CASING SIZE	WEIGHT, LB	/FT.	DEPTH SE	T (MD)	_ RO	LE SIZE	<u> </u>	CEM	ENTING	RECORD		MOUNT PULLED
7	24#		102	Gr	8-	3/4	ļ-	65 sx	Circ	Cl "B" 2%	CaCl	2
2-7/8	6.5#		2295	Gr	6-	1/4					" 2%	
* * * * * * * * * * * * * * * * * * * *					- 			• •			7	<i>S</i> (
	-				-							1. 青年最高
29.		LINE	R RECORD)	<u>'</u> -		٠	30.		TUBING RECOR	<u> </u>	8.20
·		,	OM (MD)		EMENT*	SCREEN (MI		SIZE	- 1	DEPTH SET (MD		CKEB BET (MD)
SIZD	TOP (MD)	BUTT	UM (MD)	BACKB	BRENT	BCERRA (MI			-		<u>' </u>	CEER BEL (AD)
<u> </u>	,	.				·		1=		2255	— —	
M		 	· · · · · · · · · · · · · · · · · · ·	<u> </u>		<u> </u>		1				
B1. PERFORATION REC 1-SPF (0.40)	Hole at	2181.	-85. 21	88-220	Ή.	82.	AC	ID, SHOT,	FRAC	TURE, CEMENT	SQUEE2	ZE, ETC.
2207, 2208,						DEPTH INT	erva	L (MD)	. Al	MOUNT AND KIND	OF MAT	ERIAL USED .
2224, 2226,						2181-	226	2	500	bbl. No I	oan	<u> </u>
2248, 2251,					CATI				50	,000# Sand		
	2254, 22	50, 2	<i>(2)</i> 9, 2	ZUZ.					BDI	2600		
Total: 40									IR	15 B/M	5 ."	1 4 4 4 9 9
B3.•					PRGI	DUCTION		•		100		न्यू अधिकारी
DATE FIRST PRODUCT	ION PROI	UCTION	METHOD (Flowing,	gas lift, pi	umping—eize	and t	ype of pum	(9)			Producing or
SHUT IN A	NAITING	0	NPI	PEL	INE	CON	INE	-6710	1	ahut-		WOPLC
DATE OF TEST	HOURS TESTED		HOKE SIZE		'N. FOR	OIL—BBL.		GA8-MC	<u> </u>	WATER-BBL.		S-OIL BATIO
·_	2	"			PERIOD	1		11.		1		
3-22-82	<u> </u>		3/4			<u> </u>	· ·	31		1	1	N/A
FLOW. TUBING PRESS.	CASING PRESSU		ALCULATED 4-HOUR BAT		-BBL.	GAS-1			WATER-	BBL.	''I' GEAVI	ITY-API (CORR.)
SIPT 180	7 da	- 1		.		2	50			, , , , ,		N/A
34. DIBPOSITION OF G	AB (Bold, used fo	r fuel, i	vented, etc.))						TEST WITNESS	DD BY	
'	To be so	old		•		•		121		James L.	Ludi	wick
35. LIST OF ATTACH				4				``				
				}		•		2			. •	
36. I hereby certify	that the forest	ng/an#	Attached !	Mormatic	n le comp	lete and core	ect of	determine	d from	all available von	ords	
		「フ			чшр		ei		ALUM	vanapic rec		
SIGNED	ande L	·Kes	une d	L) T	ITLE	Agei	nt			TO A TT III	3-2	3-1982
W 67400												

(See Instructions and Spaces for Additional Data on Reverse Side)

GAMMA RAY NEUTRON

	COMPAN	Y JAMES	L. LUDA	VICK	· · · · · · ·	:			
	WELL	JICARI	, ,						
	FIELD	BALLAR	D PICTI	RED CLIFFS					
	COUNTY_	RIO AR	RIBA		STATE NEW MEXICO				
	LOCATION:	800' FSL &		OTHER SERVICES: CBL					
ERMANENT DATUM OG MEASURED FRO RILLING MEASURED	m G.L.	L. O		EV. 6592 BOYE PERM.		D.F			
DATE		12-26-81							
UN NO.		One					:		
YPE LOG		GRN-CCL				i i			
EPTH—DRILLER		2295							
EPTH-LOGGER		2284							
OTTOM LOGGED IN	TERVAL	2284							
OP LOGGED INTERN	/AL	800					·		
YPE FLUID IN HOLE	<u> </u>	Water		1		71.1	<u> </u>		
SALINITY, PPM CL		-		<u> </u>		' .			
		•							
DENSITY		D. 11					1		
LEVEL		<u>Full</u>							
LEVEL MAX. REC. TEMP., DE	7			- -					
LEVEL MAX. REC. TEMP., DE OPERATING RIG'TIM	É	2 Hours							
LEVEL MAX. REC. TEMP., DE DERATING RIG TIME ECORDED BY	7	2 Hours Akins-Pears							
LEVEL MAX. REC. TEMP., DE DERATING RIG TIME ECORDED BY	É	2 Hours							
LEVEL AAX. REC. TEMP., DE PERATING RIG'TIM ECORDED BY VITNESSED BY		- 2 Hours Akins-Pear Mr. Ludwich							
LEVEL AAX. REC. TEMP., DE DERATING RIG'TIM SECORDED BY WITNESSED BY RUN	BORE-HOLE	- 2 Hours Akins-Pears Mr. Ludwich			CASING RE	CORD			
LEVEL MAX. REC. TEMP., DE DERATING RIG'TIM RECORDED BY WITNESSED BY RUN NO. BIT	BORE-HOLE FROM	- 2 Hours Akins-Pears Mr. Ludwich RECORD	SIZE	WGT.	FROM	CORD	10		
LEVEL MAX. REC. TEMP., DE OPERATING RIG/TIM ECORDED BY WITHESSED BY RUN NO. BIT 1 8 3/4	BORE-HOLE FROM Surf.	2 Hours Akins-Pears Mr. Ludwich RECORD 10	SIZE 7."	wgt.	FROM Surf.	CORD	101		
LEVEL AAX. REC. TEMP., DE DERATING RIG'TIM SECORDED BY WITNESSED BY RUN NO. BIT	BORE-HOLE FROM	- 2 Hours Akins-Pears Mr. Ludwich RECORD	SIZE	wgt.	FROM	CORD			
LEVEL MAX. REC. TEMP., DE DERATING RIG/TIM ECORDED BY VITNESSED BY RUN NO. BIT 1 8 3/4	BORE-HOLE FROM SULF. 103	2 Hours Akins-Pears Mr. Ludwich RECORD 10	SIZE 7."	wgt.	FROM Surf.	CORD	101		
LEVEL LAX. REC. TEMP., DE PERATING RIG'TIM ECORDED BY VITNESSED BY RUN NO. BIT 1 8 3/4	BORE-HOLE FROM Surf.	2 Hours Akins-Pears Mr. Ludwich RECORD 10	SIZE 7."	wgt.	FROM Surf.	CORD	101		





STATE OF NEW MEXICO ENERGY AND MINERALS DEPARTMENT

OIL CONSERVATION DIVISION

BRUCE KING GOVERNOR LARRY KEHOE SECRETARY

May 19, 1982

POST OFFICE BOX 2088 STATE LAND OFFICE BUILDING SANTA FE, NEW MEXICO 87501 (505) 827-2434

Claude C. Kennedy 6109 Del Campo Place, NE Albuquerque, NM 87109

> Re: Application for NGPA Infill Well Findings Under Provisions of Order No. R-6013-A James L. Ludwick,

> > Jicarilla Well No. 6-J, Unit O, Section

28; Township 24 North, Range 5 West,

Rio Arriba County, New Mexico

Dear Mr. Kennedy:

التبائيو هدائموا

We may not process the subject application for infill findings until the required information, forms, or plats checked on the reverse side of this letter are submitted.

Sincerely,

Michael E. Stogner,

Petroleum Engineer

MES/dp

1 · · · · · · · · · · · · · · · · · · ·		
		A copy of Form C-101 must be submitted.
		A copy of Form C-102 must be submitted.
• ••		The pool name must be shown.
		The standard spacing unit size for the pool must be shown.
••		Give the Division Order No. which granted the non-standard proration unit.
		Please state whether or not the well has been spudded and give the spud date, if any.
		Information relative to other wells on the proration unit is incomplete.
· · · · · · · · · · · · · · · · · · ·	X	The geologic and reservoir data is incomplete or insufficient. Please submit a more detailed account on how the increase of production
		was determined, include production decline curves and calculation.
e e e e e e e e e e e e e e e e e e e	•	
•		
		Other:

CLAUDE C. KENNEDLY

INDEPENDENT OIL AND GAS OPERATOR

OIL COLLEGE

OIL

SANIA FF

July 7, 1982

New Mexico OCD P.O. Box 2088 Santa Fe, New Mexico 87501

Attention: Mr. Michael Stogner

Re:

APPLICATION FOR ADMINISTRATIVE APPROVAL OF NFL ORDER for:

James L. Ludwick 6-J Jicarilla

Unit 0, 800'FSL, 1520'FEL

Section 28, T24N, R5W

Rio Arriba County, New Mexico

Dear Mr. Stogner:

In reply to your letter dated May 19, 1982 requesting additional information, we furnish the following:

1. Subject well is waiting on pipeline connection; therefore, a decline production curve can not be furnished.

On page 2 of the original application it was stated:

EXPECTED INCREASED ULTIMATE RECOVERY: 125 MMCF

We arrive at the above figure, expecting to deliver 25% of 250 mcf potential, projecting a 10% decline over 10 years.

The expected recovery could be tabulated as follows:

Year	Recovery MCF
lst	22,000
2nd	20,000
3rd	18,000
4th	16,000
5th	14,000
6th	12,000
7th	10,000
8th	8,000
9th	7,000
10th	6,000

JUL 08 1982

CLAUDE C. KENNEDY SANTA FE

July 7, 1982

page - 2

Letter - New Mexico OCD Attn: Mr. Michael Stogner

ESTIMATED PROJECTED 10 YR RECOVERY:

133 MMCF

As a comparison, the projection can be compared to the actual decline as shown below which represents production for the offset well in Unit C, Section 33, T24N, R5W.

1972			22,455	MCF
1973			14,306	
1974			8,791	
1975	•		8,015	
1976		-	7,356	
1977			8,150	
1978	•		7,332	•
1979			5,602	
1980			3,768	
1981		• •	4,061	-
	TOTAL:		90,133	MCF

Under the circumstances, I would think that this Expected Recovery as presented would be as accurate as could be expected, since this is the first infill drilling in this immediate area.

Very truly yours,

Claude C. Kennedy

AGENT FOR:

James L. Ludwick