PO Box 1980, Hobbs, NM 88241-1980

PO Drawer DD, Artesia, NM 88211-0719

District III

1000 Rio Brazos Rd., Aztec, NM 87410

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

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

Form C-101 Revised February 10, 1994

Instructions on back Submit to Appropriate District Office

State Lease - 6 Copies

#### Fee Lease - 5 Copies District IV PO Box 2088, Santa Pe, NM 87504-2068 AMENDED REPORT APPLICATION FOR PERMIT TO DRILL, RE-ENTER, DEEPEN, PLUGBACK, OR ADD A ZONE Operator Name and Address. OGRID Number DALEN Resources 011 & Gas Co. 016751 6688 N Central Expwy., Suite 1000 API Number Dallas, Texas 75206-3922 30-015-25299 **Property Code** Property Name · Well No. Murchinson State (2) <sup>7</sup> Surface Location UL or lot ao. Section Towaship Range Lot Ida Feet from the North/South fine Feet from the East/West Las County Η 2 25 S 26 E 1980 North 660 East Eddy Proposed Bottom Hole Location If Different From Surface UL or lot no. Section Township Feet from the North/South Sac Feet from the County Proposed Pool 1 96036 " Proposed Pool 2 Wildcat WOLFSHARP Work Type Code 12 Well Type Code 14 Cable/Rotary 14 Lease Type Code " Ground Level Elevation Ν 0 R 3343 " Multiple 17 Proposed Depth " Formation 1 Contractor \* Sped Date 87001 Wolfcamp Advanced Downhole 1/15/95 <sup>21</sup> Proposed Casing and Cement Program Hole Stre Casing Size Casing weight/foot Setting Depth Sacks of Cement Estimated TOC 17 1/2" 13 3/8" 48 250' 280 Surface 12 1/4" 8 5/8" 24 2000 775 Surface 7 7/8" 5 1/2" 17 8700' 775 40001 Describe the proposed program. If this application is to DEEPEN or PLUG BACK give the data on the present productive zone and proposed new productive zone. Describe the blowout prevention program, if any. Use additional sheets if necessary. 1 pipe, 1 blind, 1 hydril 5000 psi wp This application is to drill and test the Brushy Canyon and Bone Spring formations. Past ID-/ JANOS 95 1-20-95 New HOC + APE and SILL CTICK <sup>23</sup> I hereby certify that the information given above is true and complete to the best of my knowledge and belie OIL CONSERVATION DIVISION Signature: Approved by: SUPERVISOR, DISTRICT !! Printed name: Lorri S. Jackson Title: Regulatory Analyst Expiration Date: 2 1995

Conditions of Approval:

Attached 

□

Phone

(214) 750-3800

12/28/94

DISTRICT I P.O. Box 1980, Hobbs, NM 88240

#### State of New Mexico

Energy, Minerals and Natural Resources Department

Form C-102 Revised February 10, 1994 instruction on back

Submit to Appropriate District Office

State Lease - 4 Copies Fee Lease - S Copies

DISTRICT II P.O. Drawer DD, Artesta, NM 88210

DISTRICT III

1000 Rio Brazos Rd., Astec, NM 87410

# oil conservation division #05 95

P.O. Box 2088

Santa Fe, New Mexico 87504--2088

 $C_{a} \subset \mathcal{D}_{c}$ 14-37-4 D-101

☐ AMENDED REPORT

#### WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number	Pool Code		Pool Name
Property Code		operty Name SON STATE 2	Tell Number
OGRID No.	-	perator Name ESOURCES	Elevation 3343
	Sur	face Location	

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
Н	2	25 S	26 E		1980	NORTH	660	EAST	EDDY

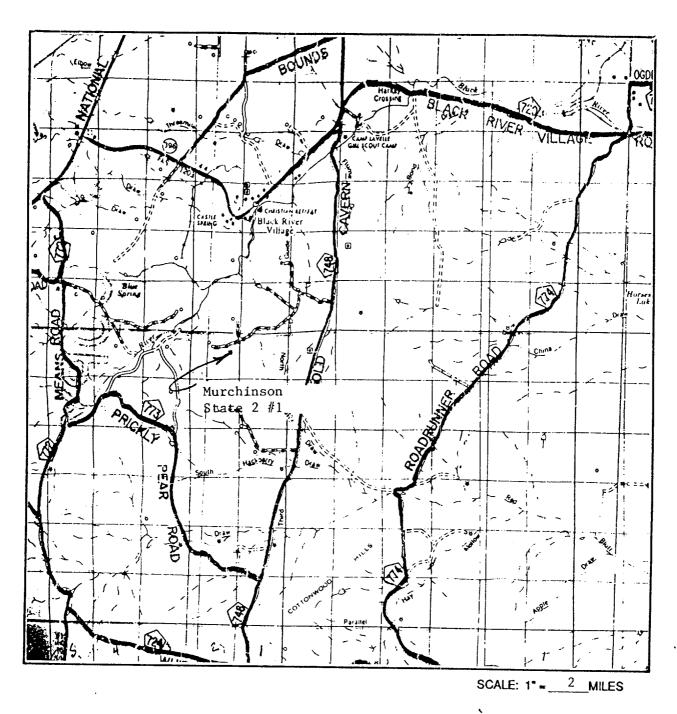
#### Bottom Hole Location If Different From Surface

	UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
L										
١	Dedicated Acres	Joint o	r Infill (	Consolidation (	Code Or	der No.				
L	40									

#### NO ALLOWABLE WILL BE ASSCRED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

				· · · · · · · · · · · · · · · · · · ·
			980,	OPERATOR CERTIFICATION  I hereby certify the the information contained herein is true and complete to the best of my knowledge and belief.
LOT 4 41.24 AC.	LOT 3 41.15 AC.	LOT 2 40.96 AC.	LOT 1 40.72 AC.	Signature  Lorri S. Jackson  Printed Name  Regulatory Analyst  Title  1/3/95
			    	SURVEYOR CERTIFICATION  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
	     		     	person and that the same is true and correct to the past of my belief.  DECEMBER 20, 1994  Date Surveyed  Signature & Seal of Professional Surjetus
	         		 	W.O. NUMD 44117-2206  Certificate No. JOHN W. WEST, 676  RONALD J. EIDSON, 3239

# VICINITY MAP

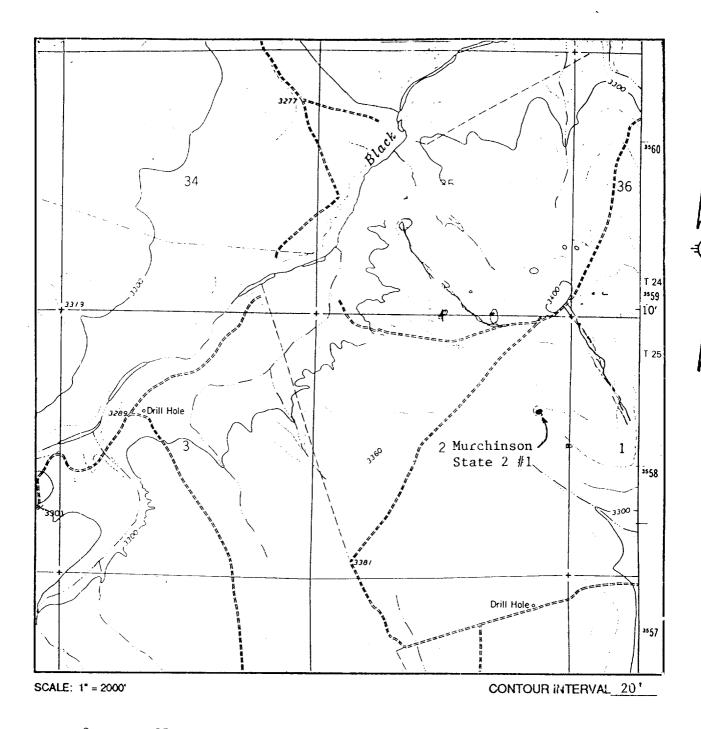


SEC. 2 TWP. 25-S RGE. 26-E
SURVEYN.M.P.M.
COUNTY Eddy STATE N.M.
DESCRIPTION 1980' FNL. & 660' FEL.
ELEVATION3343
OPERATOR Dalen Resources
Lease Murchinson State 2 #1

JOHN WEST ENGINEERING HOBBS, NEW MEXICO (505) 393-3117



# LOCATION VERIFICATION MAP



SEC. $\frac{2}{}$ TWP. $\frac{25-8}{}$ RGE. $\frac{26-E}{}$
SURVEY N.M.P.M.
COUNTY Eddy STATE N.M.
DESCRIPTION 1980' FNL. & 660' FEL.
ELEVATION 3343
OPERATOR <u>Dalen Resources</u>
LEASE Murchinson State 2 #1
U.S.G.S. TOPOGRAPHIC MAP
Rlack River Village, N.M.

JOHN WEST ENGINEERING HOBBS, NEW MEXICO (505) 393-3117

### DISTRICT I P.O.Box 1980, Hobbs, NM 88241-1980

DISTRICT II
P.O. Drawer DD, Artesia, NM 88211-0719
DISTRICT III

1000 Rio Brazos Rd, Aztec, NM 87410

# State of New Mexico Energy, Minerals and Natural Resources Dep

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Form C-109 Revised 4-1-91

### OIL CONSERVATION DIVISION

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

Y 11995

Instructions on Reverse Side

### APPLICATION FOR DISCOVERY ALLOWABLE AND CREATION OF A NEW POOL

NOTE: This form is to be filed and attachments made in accordance with the provisions of Rule 509.

If discovery is claimed for more than one zone, separate forms must be filed for each.

Operator DALEN POGOUTOGO	O:1 5 C== C:		<del></del>	Address					
DALEN Resources	Ull & Gas Co	·		6688	N. Cei	ntral l	Expwy.	Suite l	000, Dallas,
				Well No.		County			
Murchison 2 Stat	e			1	<del></del>	Eddy			
Wen Location									
Unit Letter H	:		1980	Feet from	The	north		Line and	660 Feet
From the east	Line of S	ection	2	, Townshi		<u>1</u> ,	, Range	26E	, NMPM
Suggested Pool Names (List in	order of preference)								
1.White City		1 <del>8</del>	2 Black Riv	er. Soi	ith			3. P. J.	South
Name of Producing Formation Brushy Canyon	l	Perforation	ons ' - 5166'		l'op Perfir -1790 '	om GL		Date of Filing	
Was "Affidavit of Discovery"	Previously Filed		Give Date of Filing	-l		was Spudd	ed	Date Compl. R	31/95
For This Well in this Pool?	. •		•			•	~	•	•
	No				01/2	20/95		03/05	5/95
Total Depth	Plugged Back Depth		Depth Casing Shoe		Tubing D	cixth	Elevation	(Gr., DF, RKB, I	RT, etc.)
8631	5270 <b>'</b>		5520 <b>'</b>		5074	, *	3343	GR GR	
Oil Well Potential (Test to be	aken only after all lo	ad oil has l	been recovered)						
Bbls, Oil	Per Day Based On		Bbls In Ho	ours:	BN W	ater Per Da	Rased On	Вы	
						· Di,			•
In	Hours; Gas Productio		_	MCF:	Gas-Oil Ratio		Method Of Producing		(e
NEAREST PRODUCTION TO pertical separation): Pool Name	· · · · · · · · · · · · · · · · · · ·	Producing		Top of Pa		Bottom of		Currently Produ	
White City	Penn	sylva:	nian	11,0	49 <b>'</b>	11,453	,	Yes	
Horizontal Distance and Direct Nearest well in this Pool App:	tion from Subject Dis $rox$ . $1000$ ' W	•	II to the	Pool	istance from	n Subject D	iscovery Z	one to Producing	Interval this
VEAPEST COMPARADI E DI	PODUCTION ///	· · · · · · · · · · · · · · · · · · ·	d	· · · · · · · · · · · · · · · · · · ·	44.5-	A		· · · · · · · · · · · · · · · · · · ·	
VEAREST COMPARABLE PT Pool Name	CODOC HON (INCINC	es pasi an	a present ou or gas pro	Top of Par		Bottom of		Currently Produ	
Р. J.		•		4823		4827		No	en B
Horizontal Distance and Direct	tion from Subject Dis	covery We	Il to the Nearest Well i	n this Comp	arable Pool			<del></del>	
1.33 miles NI	W								
Is "County Deep" Discovery A Requested for Subject Discovery		If Yes, G	ive Name, Location, an	id Depth of	Next Deepe	st Oil Produ	ection in thi	s County	
No	-								
·		<del>-</del>							
Is the Subject Well Multiple Completion?	Is Discovery Allowal Requested for Other		If Yes, Name all Suc	h Formation			· · · · · · · · · · · · · · · · · · ·		

NAME			ADD	RESS	<del></del>
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	· · · · · · · · · · · · · · · · · · ·	<del></del>		<del></del>	
ach evidence that all of the above operators have been	furnished a comp of this and	ication. Any of said o	nergions who into do to	a a bia a da a da a da a da a da a da a	
days after receiving a copy of this application	t furnished a copy of this appl able, must notify the approprii	ication. Any of said o ate District Office an	perators who intends t d the Santa Fe Office o	o object to the de of the Division of s	signation of the subject we such intent in writing with
days after receiving a copy of this application	t furnished a copy of this appl able, must notify the appropri	ication. Any of said o ate District Office an	perators who intends t d the Santa Fe Office o	o object to the de of the Division of s	signation of the subject we such intent in writing with
a discovery well, eligible to receive a discovery allow days after receiving a copy of this application	t furnished a copy of this appl able, must notify the appropri	ication. Any of said a ate District Office an	perators who intends t d the Sania Fe Office o	o object to the de of the Division of s	signation of the subject we such intent in writing with
days after receiving a copy of this application	abie, must notify the appropri	ale District Office an	d the Santa Fe Office o	o object to the de of the Division of s	signation of the subject we such intent in writing with:
days after receiving a copy of this application  CMarks:	OPERATOR C	ERTIFICATIO	on the Santa Fe Office of	f the Division of s	such intent in writing with
a days after receiving a copy of this application  CM arks:  roby certify that all rules and regulations of the New Mexico Od Conserver of oil supply that the disco	OPERATOR C	ERTIFICATIO	on the Santa Fe Office of	f the Division of s	such intent in writing with
days after receiving a copy of this application  CM arks:  proby certify that all rules and regulations of the New Maxico Oil Conserved to the State of the Sta	OPERATOR C	ERTIFICATIO	on the Santa Fe Office of	f the Division of s	such intent in writing with
and accovery well, engine to receive a discovery allowed days after receiving a copy of this application  The arks:  The poly certify that all rules and regulations of the New Mexico Oil Conserve of oil supply has been made in said well. I further certify that the discover is true and complete to the best of my knowledge and belief.	OPERATOR C  vection Division have been complied with very allowable for the subject well, if some	ERTIFICATIO	ON  well, and that it is my opinion in the subject some in this well	f the Division of s	ruch intent in writing with
and accovery well, engine to receive a discovery allowed days after receiving a copy of this application  The arks:  The poly certify that all rules and regulations of the New Mexico Oil Conserve of oil supply has been made in said well. I further certify that the discover is true and complete to the best of my knowledge and belief.	OPERATOR C  vection Division have been complied with very allowable for the subject well, if some	ERTIFICATION with respect to the subject to the sub	ON  well, and that it is my opinion to subject some in this well  Compliance	of the Division of s  on that a bone fide disco- only. Purther, that the in	ruch intent in writing with
days after receiving a copy of this application  emarks:  reby certify that all rules and regulations of the New Mexico Od Consent on of oil supply has been made in said well, I further certify that the discomo is yes and complete to the beet of my knowledge and belief.  Signature	OPERATOR C  vestion Division have been complied with early allowable for the subject well, if and  Supvr.  Title	ERTIFICATION of the subject to the s	ON  well, and that it is my opinion to subject some in this well  Compliance	of the Division of s  on that a bona fide discoonly. Purther, that the is	ruch intent in writing with
ach evidence that all of the above operators have been a discovery well, eligible to receive a discovery allow a days after receiving a copy of this application  emarks:  Proby certify that all rules and regulations of the New Maxico Od Consents of od supply has been made in said well, I further certify that the discover is yes and complete to the beet of my knowledge and belief.  Signature  Cindy R. Keister  Printed Name	OPERATOR C  vestion Division have been complied with early allowable for the subject well, if and  Supvr.  Title	ERTIFICATION with respect to the subject to the sub	ON  well, and that it is my opinion to subject some in this well  Compliance	of the Division of s  on that a bona fide discoonly. Purther, that the is	ruch intent in writing with

<u>INSTRUCTIONS</u>: File two copies of Form C-109 with attachments with appropriate district office and one copy with attachments with the Santa Fe Office.

Attachments: (See Rule 509 for details)

- 1) Map showing all wells within a two-mile radius of discovery well.
- 2) Electrical log with tops and bottoms of producing formations marked.
- 3) A sub-surface structure map if application is based on horizontal separation.
- 4) Geological cross-section.
- 5) Summary of reservoir data.
- 6) Evidence that all operators (listed above) owning leases within one mile of this well have been furnished a copy of this application.

### <u>DISTRICT I</u> P.O.Box 1980, Hobbs, NM 88241-1980

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-109 Revised 4-1-91

DISTRICT II

P.O. Drawer DD, Artesia, NM 88211-0719

DISTRICT III 1000 Rio Brazos Rd, Aztec, NM 87410

# OIL CONSERVATION DIVISION

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

Instructions on Reverse Side

## APPLICATION FOR DISCOVERY ALLOWABLE AND CREATION OF A NEW POOL

NOTE: This form is to be filed and attachments made in accordance with the provisions of Rule 509.

If discovery is claimed for more than one zone, separate forms must be filed for each.

Operator			Address					
DALEN Resource	s Oil & Gas C	ο.	6688 N.	Central	Expwy.	, Suite l	1000, Da	llas,
.case Name			Well No.	County			<del></del>	
Murchison 2 Sta	ate		1	Edd	У			
Well Location								
Unit Letter H	·	1980	Feet from The	nortl	h	Line and	660	Feet
From the eas			, Township	255	, Range	26E	, NM	PM
Suggested Pool Names (Lin	st in order of preference,							
White City  Lame of Producing Formal	ion	2. Black R	iver. South   Depth of Top P			3. P. J.	South	
Brushy Canyon	101	5133' - 5166'	-179	an irona GL		Date of Filing	31/95	
Vas "Affidavit of Discover	y" Previously Filed	If yes, Give Date of Filing		Well was Spu	dded	Date Compl.	Seady to Prod	<del></del>
for This Well in this Pool?	No			1/20/95		1	15/95	
otal Depth	Plugged Back Depth	Depth Casing St	noe Tubi	ng Depth	Elevation	(Gr., DF, RKB,	RT. etc.)	
8631 <b>'</b>	5270 <b>'</b>	5520 <b>'</b>	ľ	074'	ľ	3' GR	, , ,	
Bbls, O	il Per Day Based On	Bbls In	Hours; Bb	ls Water Per [	Day Based On	вь	is	
	_					_		
<u>In</u>	Hours; Gas Production		Gas- MCF; Ratio		Method O Producing	-		
In EAREST PRODUCTION	Hours; Gas Production		Gas- MCF; Ratio	)	Producing	Siz	e	al or
In  EAREST PRODUCTION rical separation):	Hours; Gas Production	on During Test:	Gas- MCF; Ratio	)	Producing whether this c	Siz	ed on horizon	al or
In  EAREST PRODUCTION  rtical separation):  ool Name	Hours: Gas Production TO THIS DISCOVERY  Name of	on During Test:  (Includes past and present of	Gas- MCF; Ratio	Bottom	Producing whether this co of Pay	Siz discovery is bas	ed on horizon	al or
In  EAREST PRODUCTION mical separation): col Name White City orizontal Distance and Di	Hours; Gas Production TO THIS DISCOVERY  Name of Penr	on During Test:  (Includes past and present of Producing Formation asylvanian	Gas- MCF; Ratio  If or gas producing are  Top of Psy  11,049!  Vertical Distance	Bottom (	Producing whether this co of Pay	Siz discovery is base Currently Prod Yes	ed on horizon	
In  EAREST PRODUCTION  mical separation):  col Name  White City  corizontal Distance and Distance are Distanc	Hours; Gas Production TO THIS DISCOVERY  Name of Penr	on During Test:  (Includes past and present of Producing Formation asylvanian ecovery Well to the	Gas- MCF; Ratio if or gas producing are Top of Psy 11,049!	Bottom of 11,45	Producing whether this co of Pay	Siz discovery is base Currently Prod Yes	ed on horizon	
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In  EAREST PRODUCTION  rical separation):  cool Name  White City  forizontal Distance and Di fearest well in this Pool  Ap  EAREST COMPARABLE  cool Name	Hours: Gas Production TO THIS DISCOVERY  Name of Penrimentation from Subject Discovery.  Prox. 1000' W	on During Test:  (Includes past and present of Producing Formation asylvanian ecovery Well to the	Gas- MCF; Ratio il or gas producing are Top of Psy 11,049! Vertical Distance Pool 5883	Bottom of 11,45	Producing whether this o of Pay 53  Discovery Z	Siz discovery is base Currently Prod Yes	ed on horizon lucing? g Interval this	
In  EAREST PRODUCTION rical separation): Pool Name White City  Iorizontal Distance and Distance	Hours: Gas Production TO THIS DISCOVERY  Name of Penrimentation from Subject Discovery.  Prox. 1000' W	on During Test:  (Includes past and present of Producing Formation asylvanian scovery Well to the	Gas- MCF; Ratio il or gas producing are Top of Psy 11,049' Vertical Distance Pool 5883	Bottom of 11,45 e from Subject	Producing whether this of of Pay 53  Discovery Z  only): of Pay	discovery is base Currently Prod Yes one to Producin	ed on horizon lucing? g Interval this	
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In  EAREST PRODUCTION  rtical separation):  cool Name  White City  forizontal Distance and Di fearest well in this Pool  Ap  EAREST COMPARABLE  cool Name  P. J.  orizontal Distance and Di  1.33 miles	Hours; Gas Production TO THIS DISCOVERY  Name of Penn rection from Subject Discovery. 1000' Was PRODUCTION (Include rection from Subject Discovery) NNW	on During Test:  (Includes past and present of Producing Formstion asylvanian ecovery Well to the VNW  des past and present oil or gast covery Well to the Nearest W	Top of Psy  11,049'  Vertical Distance Pool  5883  production for this particular of Psy 4823'  cell in this Comparable	Bottom of 11,45 e from Subject  ry or formation Bottom of 4827	Producing whether this of of Pay 53  Discovery Z  n only): of Pay	discovery is based  Currently Prod  Yes  One to Producin  Currently Prod  No	ed on horizon lucing? g Interval this	
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In  EAREST PRODUCTION  rical separation):  Pool Name  White City  Iorizontal Distance and Di  Rearest well in this Pool  Ap  EAREST COMPARABLE  ool Name  P. J.  Iorizontal Distance and Di  1.33 miles	Hours; Gas Production TO THIS DISCOVERY  Name of Penn rection from Subject Discovery. 1000' Was PRODUCTION (Include rection from Subject Discovery) NNW	on During Test:  (Includes past and present of Producing Formstion asylvanian ecovery Well to the VNW  des past and present oil or gast covery Well to the Nearest W	Top of Psy  11,049'  Vertical Distance Pool  5883  production for this particular of Psy 4823'  cell in this Comparable	Bottom of 11,45 e from Subject  ry or formation Bottom of 4827	Producing whether this of of Pay 53  Discovery Z  n only): of Pay	discovery is based  Currently Prod  Yes  One to Producin  Currently Prod  No	ed on horizon lucing? g Interval this	
In  EAREST PRODUCTION extical separation):  Pool Name  White City  Horizontal Distance and Diverset well in this Pool  Appearest Comparable  Pool Name  P. J.  Horizontal Distance and Di  1.33 miles  "County Deep" Discover Requested for Subject Discover Requested for Subject Discover	Hours; Gas Production TO THIS DISCOVERY  Name of Penn rection from Subject Discovery. 1000' Was PRODUCTION (Include rection from Subject Discovery) NNW	on During Test:  (Includes past and present of Producing Formation in sylvanian covery Well to the WNW  des past and present oil or gas covery Well to the Nearest W	Top of Psy  11,049'  Vertical Distance Pool  5883  production for this particular of Psy 4823'  cell in this Comparable	Bottom of 11,45 e from Subject  ry or formation Bottom of 4827	Producing whether this of of Pay 53  Discovery Z  n only): of Pay	discovery is based  Currently Prod  Yes  One to Producin  Currently Prod  No	ed on horizon lucing? g Interval this	

NAME	<del></del>		ADI	DRESS	
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			· <del></del>		
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		· · · · · · · · · · · · · · · · · · ·			
ascorery well, eligible to receive a discovery allowal	furnished a copy of this appi ble, must notify the appropri	lication. Any of said o late District Office and	perators who intends I the Santa Fe Office	to object to the of of the Division o	tesignation of the su fsuch intent in writi
ch evidence that all of the above operators have been j discovery well, eligible to receive a discovery allowate days after receiving a copy of this application marks:	furnished a copy of this appl ble, must notify the appropri	lication. Any of said o late District Office and	perators who intends I the Santa Fe Office	to object to the o of the Division o	tesignation of the su f such intent in writi
days after receiving a copy of this application	furnished a copy of this appi ble, must notify the appropri	lication. Any of said o iate District Office and	perators who intends I the Santa Fe Office	to object to the a of the Division o	tesignation of the su f such intent in writi
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narks:	OPERATOR C	ERTIFICATIO	i the Santa Fe Office o	of the Division o	f such intent in writi
days after receiving a copy of this application	OPERATOR C	ERTIFICATIO	i the Santa Fe Office o	of the Division o	f such intent in writi
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<u>INSTRUCTIONS</u>: File two copies of Form C-109 with attachments with appropriate district office and one copy with attachments with the Santa Fe Office.

## Attachments: (See Rule 509 for details)

- 1) Map showing all wells within a two-mile radius of discovery well.
- 2) Electrical log with tops and bottoms of producing formations marked.
- 3) A sub-surface structure map if application is based on horizontal separation.
- 4) Geological cross-section.
- 5) Summary of reservoir data.
- 6) Evidence that all operators (listed above) owning leases within one mile of this well have been furnished a copy of this application.