MERRION OIL & GAS CORPORATION

P. O. Box 840 FARMINGTON, NEW MEXICO 87499



November 8, 1985

Ru. 11/12/95

Mike Stogner Chief Hearing Officer New Mexico Oil Conservation Division P. O. Box 2088 Santa Fe, New Mexico 87501-2088

Caso 8772

Re: December 4, 1985 Hearing

Dear Mike:

To confirm our phone conversation on November 8, 1985, Merrion Oil and Gas Corporation's application for an unorthodox location in Section 28, Township 20 North, Range 06 West is cancelled. The application for an unorthodox location in Section 36, Township 20 North, Range 05 West is now to be heard on December 4, 1985.

In addition, at the same December 4, 1985 hearing, Merrion Oil and Gas Corporation intends to present evidence to obtain an Oil Discovery Allowable (Rule G-509) on the Arena Blanca #1 well in Section 36, Township 20 North, Range 05 West. Evidence for a "special" depth bracket allowable for the 603 Arena Blanca #1, which is greater than the regular depth bracket allowable, will also be presented.

Thank you for your assistance and please call if you have any questions.

Respectfully

T. Greg Merrion Production Engineer

TGM/1jm

Pool (newhoring)

Alexandra

Shering

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S Form 3811	PK G N B
, July	ar fo
1983	1
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	PS Form 3811, July 1983

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-404	3811	being returned to you. The return receipt fee will provide you the name of the person delivered to and the date of delivery. For additional fees the following services are
and	Form 3811, July 1983	available. Consult postmaster for fees and check box(es) for service(s) requested.
	198	1. Show to whom, date and address of delivery.
		2. Restricted Delivery.
		3. Article Addressed to:
1985		Chevron, USA P. O. Box 599
nd fee paid)		Denver, CO 80201
,	*	
		4. Type of Service: Article Number 3 100 8
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		Always obtain signature of addressee or agent and DATE QELIVERED.
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ופר	Arena Blanca 1					
Š	SENDER: Complete item	s 1, 2, 3 and 4.				
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	2. Restricted Delivery.					
	3. Article Addressed to: Trend Exploration 777 Grant Street Suite 600 Denver, Co 8020					
	4. Type of Service:	Article Number				
1	Registered Insured Cortified COD	483-749-246				
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	Arena Blanca	1				
B	SENDER: Complete item	s 1, 2, 3 and 4.				
Form 3811, July 1983	Put your address in the "RETURN TO" space on the reverse side. Failure to do this will prevent this card from being returned to you. The return receipt fee will provide you the name of the person delivered to and the date of delivery. For additional fees the following services are available. Consult postmaster for fees and check box(es) for service(s) requested. 1. XShow to whom, date and address of delivery. 2. Restricted Delivery.					
						
	Santa Fe Energy 1616 Glenharm P Suite 2600 Denver, Colorad	lace				
	4. Type of Service:	Article Number				
	Registered Insured Certified COD Express Mail	483–749–245				
	Always obtain signature of ac DATE DELIVERED.	dressee <u>or</u> agent and				
MOD	5. Signature – Addressee X	ntelli:				
STIC	6. Signature – Agent X					
DOMESTIC RETURN	7. Date of Delivery					
RN RECEIPT	8. Addressee's Address (ONL	Y if requested and fee paid)				

Arena Blanca 1 SENDÉR: Complete items 1, 2, 3 and 4. Put your address in the "RETURN TO" space on the reverse side. Failure to do this will prevent this card from being returned to you. The return receipt fee will provide you the name of the person delivered to and the date of delivery. For additional fees the following services are available. Consult postmaster for fees and check box(es) for service(s) requested. 1. 🖂 Show to whom, date and address of delivery. 2.

Restricted Delivery. 3. Article Addressed to: Yates Petroleum Corp 207 S. 4th Street Artesia, NM 88210 4. Type of Service: Article Number Insured COD Registered
Certified
Express Mail 483-749-247 Always obtain signature of addressee or agent and DATE DELIVERED. 5. Signature - Addressee DOMESTIC RETURN RECEIPT 6. Signature - Agent 7. Date of Delivery 8. Addressee's Address (ONLY if requested

PS Form 3811, July 1983	Arena Blan SENDER: Complete item Put your address in the "RET reverse side. Failure to do this being returned to you. The re you the name of the person of delivery. For additional fees t available. Consult postmaster for service(s) requested. 1. Show to whom, date at 2. Restricted Delivery. 3. Article Addressed to:	s 1, 2, 3 and and the URN TO" space on the will prevent this card from turn receipt fee will provide elivered to and the date of the following services are for fees and check box(es)
	Champlin Petrole P. O. Box 1257 Englewood, Co 8 4 Type of Service: Registered Insured Certified COD Express Mail	
DOMESTIC RETURN RECEIPT	Always obtain signature of ac DATE DELIVERED. 5. Signature — Addressee X. 6. Signature — Agen X. 7. Date of Delivery 7. 8. Addressee's Address (ONL)	-85 0

Are	na Blanca 1 SENDER: Complete item					
S	SENDER: Complete items 1, 2, 3 and 4.					
Form 3811, July 1983	Put your address in the "RETURN TO" space on the reverse side. Failure to do this will prevent this card from being returned to you. The return receipt fee will provide you the name of the person delivered to and the date of delivery. For additional fees the following services are available. Consult postmaster for fees and check box(es) for service(s) requested.					
1983	1. Show to whom, date and address of delivery. 2. Restricted Delivery.					
	Quintana Petroleum Corp 818 17th Street Suite 610 Denver, Colorado 80202					
]	4. Type of Service: Article Number					
	Registered Insured COD Express Mail	483-749-248				
	Always obtain signature of ac DATE DELIVERED.	ddressee <u>or</u> agent and				
DOM	5. Signature - Addressee X , Addressee	u_				
STIC	6. Signature Agent X					
DOMESTIC RETURN	7. Date of Delivery					
RN REC	8. Addressee's Address <i>(ONL</i>	Y if requested and fee paid)				
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Arèna Blanca 1 SENDER: Complete items 1, 2, 3 and 4. Put your address in the "RETURN TO" space on the reverse side. Failure to do this will prevent this card from being returned to you. The return receipt fee will provide 3811, July 1983 you the name of the person delivered to and the date of delivery. For additional fees the following services are available. Consult postmaster for fees and check box(es) for service(s) requested. 2. Restricted Delivery. 3. Article Addressed to: F. E. Hunt P. O. Box 151 Florence, Oregon 97439 4. Type of Service: Article Number ☐ Insured ☐ COD Registered Certified Express Mail 483-749-251 Always obtain signature of addressee or agent and DATE DELIVERED. 5. Signature - Addressee DOMESTIC RETURN RECEIPT 6. Signature 7. Date of Delivery 8. Addressee's Address (ONLY if requested and fee)

STATE OF NEW MEXICO ENERGY AND MINERALS DEPARTMENT

OIL CONSERVATION DIVISION P. O. BOX 2088 SANTA FE, NEW MEXICO 87501

Case 8772

Form C-109 Revised 10-01-78 Format 06-01-83 Page 1

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.

Obelatot			Address				
Merrion Oil and G	as Corporati	.on	P.O. 8	Box 840 Far	rmington, Ne	w Mexico 87499	
Lease Name			Well No.	Count			
Arena Blanca			1	McKi	inley		
Well Location					······································		
Unit Letter;	2360		Foot Ire	South	Line ar	1200 F**1	
From the East Line of S	iection 36	. Township	20N		Range 05W	, NMPM	
Suggested Pool Names (List in order of						, ((())	
ı. Arena <u>Blanca</u>	. 2. P	enistaja			3. Little E	lue Mesa	
Name of Producing Formation	Perforations					Date of Filing Form C-104	
Entrada	5514, 15,	& 15.5				10-1-85	
Was "Allidavit of Discovery" Previous For This Well in this Pool?	ly Filed If Yes, G	ive Date of Filing	7	Date Well was Sp	udded	Date Compl. Ready to Prod.	
No.				7-14-85		8-27-85	
	ack Depth	Depth Casing Sh	00	Tubing Depth	Elevat	on (Gr., DF, RKB, RT, etc.)	
5614'KB 5569'	KB .	5614' KB		5548'KB	6634 '	GL	
Oil Well Potential (Test to be taken on	ly after all load oil	has been recover	ed)				-
				0			
357 Bbis, Oil Per Day Bo	sed On	_ Bbis In	Hou	s=;B	ibls Water Per Day	Based On Bble	
. 22		TCTM	_ Gas-	on ř	tethod Of	. Chk.	
In 22 Hours; Gas Produ	ction During Test:	TSTM MC	F; Ratio	:F	Producting: Pump	Ing Size	=045 : II - 5
EAREST PRODUCTION TO THIS DISC il or vertical separation);	OVERY (Includes)	past and present o	oil or gas	producing areas a	nd zones whether	this discovery is based on ho	rizon•
Pool Name	Name of Producting	g Formation	Top of	Pay	Bottom of Pay	Currently Producing	?
Undesignated	Gallup		32	270'	3578'	No	
Horizontal Distance and Direction from	Subject Discovery	Well to the		l Distance from S		th level in producting interval th	ls
Necrest Well in this Pool 1350!	SE	•	Pool	1936'			
			<u></u>				
EAREST COMPARABLE PRODUCTION	N (Includes past an	d present oil or g	as produc	tion from this pay	or formation only) <u>:</u>	
Pool Name			Top of		Bottom of Pay	Currently Producing	. ?
Ojo Encino Entrad	а		'	5900'	59301	No	·
Horizontal Distance and Direction from	· · · · · · · · · · · · · · · · · · ·	Well to the Necre	st Well in	this Comparable	<u> </u>		
4 miles Northwest							
4 miles voichwest							
						•	
s "County Deep" Discovery Allowable	Tre van Cinn Na		Danih at	New Decree Oil	Deadwallan in this	Canada	
Requested for Subject Discovery Well?	II les' Cive van	e, Location, and	Depth of		Production in this	County	
IX()							~~~
s the Subject Well Is Discovery All Requested for of No		(es, Name all Suc	h Formati	on a			

cont'd below	
anta Fe Energy Company	1616 Glenharm Place, Suite 2600, Denver, Co 802
noiteroqroJ mustorten Enstriu	818 17th St. Suite 610, Denver, Co 80202
JunH .3.	P.O. Box 151, Florence, OR 97439
.onl A2U .nolvad	P.O. Box 599, Denver, CO 80201
ynamplin Petroleum Company	P.O. Box 1257, Englewood, CO 80150
yneqmol Liu eionei-Tasie	P.O. Box 24168 Tulsa, OK 74121-1468
NAME	ADDRESS

Hematks:

at supply hes been made in said well. I further certly that the dis-	is my opinion that a bone tide discovery of a hitherto unknown common seuses et al allowable for the subject well, if authorized, will be produced from the subject soe	موند. 1][]
). TERTIFICATION OF THE Were NOT THE NEW Mexico DO ERTIFICATION (MANAGER).	4020

Dαr●	nolitaoq
October 3, 1985	Production Engineer

T. Greg Merrion

777 Grant Street, Suite 600, Denver, Co 80203 207 S. 4th Street, Artesia, New Mexico 88210

Trend Exploration Ltd. *Yates Petroleum Corporation

ADDENDUM

RULE 509: OIL DISCOVERY ALLOWABLE

- 1. Enclosed is a map depicting all wells within a two mile radius of the Arena Blanca #1 which includes the name of all lessees of record.
- 2. Enclosed is an electrical log of the Arena Blanca #1. The top and bottom of the Entrada are indicated since it is the producing interval in the subject well. The top and bottom of the Gallup formation are shown since it once produced in the Chittum-Penistaja #1. The top and bottom of the Menefee Mesaverde are shown since the Bird Federal 12-5 produces from this interval.
- 3. No structural map is enclosed since no other nearby wells within the two mile radius have ever produced hydrocarbons from the Entrada.
- 4. No cross section of the Entrada is enclosed for the same reason as indicated in No. 3.
- 5. Enclosed is a Horner plot derived from drill stem test data which indicates an initial bottom hole pressure of approximately 2000 psi. Also enclosed is a sidewall core analysis with the information on the Entrada highlighted in yellow. In addition, an Entrada oil analysis and water analysis are included.

OPUGE 2032 LEGEND 0.2 0-01F 2 0 0.6 0 ا - - - -Horner Plot of 2nd Shut-In Period 0 0.8 LOG((T+DT)/DT) Time (min) 64.8 25.9 119.9 59.4 DST Information 0 0 Pressure (psig) 2534.7 16.0 23.6 23.6 18.5 50.3 2599.3 <u>a</u> Initial Second Closed-In Final Second Closed-In Initial First Closed-In Final First Closed-In Initial Second Flow Final Second Flow Initial Hydrostatic 0 Initial First Flow Firal First Flow Final Hydrostatic Description 1.6 0.0 2000.0-1600.0-400.0-2400.0-800.0-2800.0-(ISA) A

Interval Tested: Entrada (5480'-91')

Arena Blanca #1



GEOCHEMICAL ANALYSES SOURCE ROCK EVALUATION

CRUDE OIL-SOURCE ROCK CORRELATION

CRUDE OIL CHARACTERIZATION GEOCHEMICAL PROSPECTING

1143-C BRITTMOORE ROAD • HOUSTON, TEXAS 77043-5094 • 713/467-7011

September 10, 1985

Mr. Doug Endsley MERRION OIL AND GAS CORP. P.O.Box 840 Farmington, New Mexico 87499

RE: GeoChem Job No. 3190

Six Sidewall Cores from NM

Dear Mr. Endsley:

Enclosed please find the results of geochemical analyses performed on a suite of six (6) sidewall core samples from New Mexico.

These samples were submitted to the following geochemical analyses:

Comments on Environment of Deposition of Six Sidewall Cores Submitted for Analyses

Samples from 1644' and 2058', the Late Cretaceous Menefee mudstones are rich in amorphous sapropel (oil-prone) with secondary amounts of terrestriallyderived herbaceous, woody and reworked terrestrial kerogen. Although these mudstones were doubtless deposited in a transitional environment, the sediments are rich in marine-type kerogen. Transitional environments, in light of their location between marine and terrestrial environments, are prone to accumulate kerogen from both marine and terrestrial sources. In these two sidewall cores the "marine" component predominates volumetrically over the terrestrial component. This "marine" kerogen may have come from euryhline marine algae accumulating in transitional aqueous systems or may have accumulated from fresh water (lake or stream) algae. From these two sidewalls it appears that the organic material is predominantly amorphous in character and that the amorphous kerogen would have been the first to source oil in this section. The results of Rock-Eval pyrolysis indicate the first mudstone sampled (1644') had neither adsorbed hydrocarbons (low S1) nor generative potential (low S2). The second Menefee mudstone (2058') is considerably more prospective. With a large SI peak there is evidence of reservoired hydrocarbons in this sample. Because the kerogen in this sample is predominantly mature amorphous kerogen, it appears that the amorphous kerogen may have sourced the reservoired hydrocarbons associated with the mudstone.

The mudstone sample from 3554' is consistent with the kerogen that would be expected from a regressive marine sediment. The strong physical similarity of the kerogen with that from the Menefee (2058') strongly suggests that the Menefee mudstone is more marine than lacustrine in character. In this sample the amorphous kerogen would be expected to source liquid hydrocarbons before the lesser quantity of terrestrial kerogen could act as source.

[As you will see from the visual kerogen assessment worksheet, caved or drilling mud contaminants are associated with these mudstone sidewall cores. The 'caved' materials are distinctly less mature and have a definite Upper Cretaceous or Lower Tertiary pollen flora associated with the woody kerogen in them. The caved kerogen is not included in the interpretations here.]

The sample from 4077' was reported as Cretaceous Semilla formation - an offshore sand bar or a calcarenite. The mudstone from this interval was noncalcareous. The character of the kerogen in this sample limits the environments in which this mudstone may have been deposited. This interval contained only inertinite - kerogen which may have been oxidized from other kerogen. The "medium" size of this kerogen may indicate its transport as part of a sand bed load. Winnowing of a sand body could explain the lack of finer (typical amorphous) kerogen. A calcarenite or mudstone associated with a calcarenite would be expected to include amorphous kerogen. From the kerogen it appears that the mudstone from 4077' was more likely to have come from a temporarily emergent offshore sand bar than from an offshore calcarenite.

The two mudstones 5509' and 5518' from the Entrada have kerogen types that are consistent with their widely accepted origin as aeolian sand accumulations. The inertinitic character of their kerogen is consistent with the severe oxidizing environment of aeolian deposits.

Should we be of further assistance concerning this study or any other matter, please advise.

Yours truly,

Ann Brooke Reaugh by Douglas A. Muckelroy

GEOCHEM LABORATORIES, INC.

st

Enclosures



LITHOLOGICAL DESCRIPTIONS AND ORGANIC CARBON ANALYSES

MERRION OIL AND GAS CORP. - SIX SIDEWALL CORES FROM NEW MEXICO

TABLE I

SAMPLE NUMBER	DEPTH (feet)	LITHO DESCRIPTION	GSA NO.	ORGANIC CARBON (wt.%)
3190-001	1644	100% Mudstone, very light gray		0.23
3190-002	2058	100% Mudstone, very light gray		0.46
3190-003	3554	100% Mudstone, very light gray		0.59
3190-004	4077	100% Mudstone, light gray		0.30/0.28
3190-005	5509	100% Mudstone, light gray		0.69
3190-006	5518	100% Mudstone, light gray		0.68

TABLE II

RESULTS OF ROCK-EVAL PYROLYSIS ANALYSIS

GEOCHEM SAMPLE NUMBER	DEPTH INTERVAL (feel)	TMAX (c)	S1 (mg/g)	(82°) (mg/g)	53 (mg/g)	Id	PC*	T.O.C. (wt.Z)	HYDROGEN INDEX	OXYGEN INDEX
3190-001 3190-002 3190-002 3190-003 3190-003 3190-005 3190-005 3190-006 3190-006	1644 2058 2058 3554 3554 4077 5509 5518 5518	402 403 419 419 426 426 423 314 314 312	0.07 2.20 0.06 1.44 0.05 0.04 5.80 0.04 5.16	0.27 1.44 0.01 1.19 0.20 2.99 2.83 0.05	0.69 0.90 0.82 0.89 1.00 1.19 0.50	0.21 0.60 1.00 0.42 0.31 0.17 0.66 0.33	0.02 0.30 0.28 0.11 0.02 0.73 0.01	0.23 0.46 0.59 0.59 0.59 0.69 0.68	117 313 2 337 18 68 433 11 416	300 195 178 150 169 296 172 72 105

T.O.C. = Total organic carbon, wt. %	53	= CO2 produced from kerogen pyrolysis	Oxygen	
Sl = Free hydrocarbons, mg Hc/g of rock		(mg CO2/g of rock)	· Index	= mg CO2/g organic carbon
S2 = Residual hydrocarbon potential	PC*	= 0.083 (S1 + S2)	PI	= S1/S2 + S2
(mg NC/g or rock)	Hydrogen	c	TMAX	 Temperature Index, degrees C.
	Index =	# mg HC/g organic carbon		

TABLE III

SUMMARY	MATTER TYPE		Am:W-I;H	Am; I; W	Am;-; 11-W-I	1;-;-	-:-:1	1;-;-							
ZZZZZ CAVED AND/OR REWORKED POPULATION(S)	MATURATION INDEX	EMARKS	/ I := : - /		1:-:-										
REWORKED POPULAT	TYPE OF ORGANIC MATTER							 							
Ş	*	LVM				186		 							
GENERAL CHARACTERISTICS	COLOR OF STATE OF ORGANIC MATTER														
풍	COLOR OF ORGANIC MATTER														
(INTERPRETED)						*	\								
POPULATION (INTE	MATURATION INDEX	REMARKS	Am; W; H	Am; -: W	Λm;-;H-W	I;-;-		1;-;-							
INDIGENOUS P	TYPE OF ORGANIC MATTER		1	V		2	ò	15							
	<u> 8</u>														
		ОЕРТН	1644	2058	3554	4077	5509	5518							
		GEOCHEM No	1190-001	3190-002	3190-003	3190-004	3190-005	3190-006							

NOTES: In sample -003 the 2-/2 palynomorphs are Upper Cretaceous or Tertiary In sample -004 the immature population is Tertiary In sample -004, -005, -006 maybe Entrada. Of samples -004, -005, -006 maybe Entrada.

API FORM 45-1

DISSOLVED SOLIDS

FIELD RECEIPT NO. N/A

API WATER ANALYSIS REPORT FORM

Company MERRION OIL	& GAS			Sample No.	Date Sampled 10/2/85
Field	Legal D	escription "		County or F	Parish State
Lease or Unit Arena Blanca	Vell #1		Depth	Formation	Water, B/D
Type of Water (Produced, Supproduced	oply, etc.)	Sampling Po	int		Sampled By

CATIONS Sodium, Na (cala.) Calcium, Ca Magnesium, Mg Barium, Ba	mg/l 3218 282 0	140 14.1 0	ppm 3174 278 0
ANIONS Chloride, Cl	2208	62.2	2178

Chloride, Cl
Sulfate, SO₄
Carbonate, CO₃
Bicarbonate, HCO₃

135

2.21

133

Total Dissolved Solids (calc.)

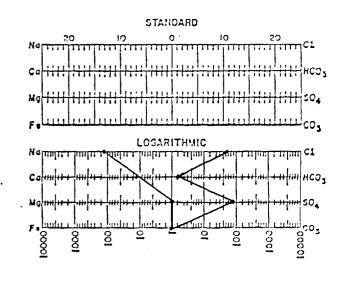
Iron, Fe (total) Fe 0; Fe 0 Sulfide, as HaS

REMARKS & RECOMMENDATIONS:

OTHER PROPERTIES

pH Specific Gravity, 60/60 F.	7.8
Resistivity (ohm-meters) 74° F. Total hardness	0.75 690

WATER PATTERNS - me/l



ANALYST: Russ Pyeatt

THE WESTERN COMPANY OF NORTH AMERICA, FARMINGTON. NM (505) 327-6222

Please refer any questions to: Clay Terry. District Engineer or Tom Burris, Field Engineer

Analys	is	No.	
Date	10	/12/85	-

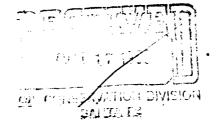
The Western Company Oil Analysis

Operator Merrion Oil & Gas	Date Sampled 8-27-85
Well Arena Blanca #1	Date Received 8-22-85
Field Wildcat Entrada	Submitted By Doug Insley/T.Gregg Merrion
Formation Entrada	Worked By Russ Pyeatt
Depch 5755	Sample Description Dark, brownish
County McKinley	0.7. No water observed.
State New Mexico	
API Gravity 32.9° at 60°F *Paraffin Content 15.5 % by weight *Asphaltene Content 7.1 % by weig Pour Point 49 °F Cloud Point Nobs °F	
Commonta	

Comments:

Cloud point non-observable due to opaque characteristics of oil.

Analyst	Russ	Pyeatt	
maryst	n u s s	lyeatt	



STATE OF NEW MEXICO ENERGY AND MINERALS DEPARTMENT

PO, DO COPICE SECTIVED DISTRIBUTION BANTA FE FILE U.S.O.S., LAND OFFICE TRANSPORTER OAS OPERATOR PROPATION DISTRIBUTION DISTRIBUTIO

OIL CONSERVATION DIVISION P. O. BOX 2088 SANTA FE, NEW MEXICO 87501

Form C-104 Revised 10-01-78 Format 06-01-83 . Page 1

REQUEST FOR ALLOWABLE
AND
AUTHORIZATION TO TRANSPORT OIL AND NATURAL GAS

•				514 423	~~ ~~ ~~ ~~	
Operator Merrico Oil 6 Con Communication				加出	GEIVE	
Merrion Oil & Gas Corporat	lon					
P. O. Box 840, Farmington,	New Mexico 8749	99			T 0 1 1985	
Reason(s) for filing (Check proper box)		· · · · · · · · · · · · · · · · ·	Other (Please	explain)	~~\	
X3 New Well	Change in Transporter of:		1	Oit	CON. DIV	'.
Recompletion	Oir	Dry Gas			DIST. ?	
Change in Ownership	Casinghead Gas	Condensate				
change of ownership give name nd address of previous owner						
I. DESCRIPTION OF WELL AND LEA	ASE					
Lease Name	Well No. Pool Name, Inclu	ding Formation		Kind of Lease		Lease No.
Arena Blanca	1 WC Entrada			State, Federal or I	State	LG 7435
Location						
Unit Letter T : 2360	Feet From The South	Line and]	200	Feet From The _	East	
				-		
Line of Section 36 Township	20N Roma	• 5W	, NMPM	McKinley	·	County
II. DESIGNATION OF TRANSPORT Name of Authorized Transporter of Oil FX The Mancos Corporation Name of Authorized Transporter of Casinghed If well produces off or liquids, give location of tanza. I this production is commingled with that	or Condensate ad Gas or Dry Gas Sec. Twp. Ro	Address P. O Address qe. Is gas a	BOV 1320	<u> </u>	n. New Merric	87/99
NOTE: Complete Parts IV and V on t	reverse side if necessary.	,		-		
T. CERTIFICATE OF COMPLIANCE hereby certify that the rules and regulations of			OIL C	ONSERVATION	N DIVISION OCT - 1 1	985
een complied with and that the information give				(a)	,	
y knowledge and belief.		BY	ره صفهوت	·	SUPERVISOR DISTRI	C1 •
\cdot		TITL	£			
4			his form is to	be filed in comp	lience with RUL	E 1104.
(Signature)		well, t	this form must	lest for allowable be accompanied well in accordance	by a tabulation of	of the deviation
Steve S. Dunn, Operations N	lanager			this form must be completed wells.	filled out compl	etely for allow-
(Date)		well no	swe or number	ections I, II, III, or transporter, or	other such chang	e of condition.
•		Comple	parate Forms ted wells.	C-104 must be	filed for each p	ool in multiply

D	Oll Weil Gas Wei	New Weil Workover Deepen	Plug Back Same Res'v. Diff. Res'
Designate Type of Compl		Total Depth	i i
Date Spudded	Date Compl. Ready to Prod.	Total Depth	P.B.T.D.
7/14/85	8/27/85	5614' KB	5569' KB
Elevations (DF, RKB, RT, GR, etc	e., Name of Producing Formation	Top Oll/Gas Pay	Tubing Depth
6534' GL, 5647' KB	Entrada	5514' KB	5548' KB
Perforations			Depth Casing Shoe
5514-551	6		
	TUBING, CASING,	AND CEMENTING RECORD	
HOLE SIZE	CASING & TUBING SIZE	DEPTH SET	SACKS CEMENT
13-1/2"	9-5/8" 32 #/ft I-55	231' KB	190 sx (224.2 cu. ft.)
8-3/4"	7", 23 #/ft, J-55	5614' KB	760 sx (1003.2 cu. ft.
			300 sw (396 cu. ft.)
OIL WELL	able for this	depth or be for full 24 hours;	
OIL WELL Date First New Oil Run To Tanks	able for this	e after recovery of total volume of load depth or be for full 24 hours) Producing Method (Flow, pump, za.	oil and must be equal to or exceed top allo:
OIL WELL Date First New Oil Run To Tanks 8/27/85	Date of Test 9/30/85	Producing Method (Flow, pump, ze. Pumping	e lift, etc.)
OIL WELL Date First New Oil Run To Tanks 8/27/85	Date of Test	Producing Method (Flow, pump, ga.	
OIL WELL Date First New Oil Run To Tanks 8/27/85	Date of Test 9/30/85	Producing Method (Flow, pump, ga. Pumping Casing Pressure	Choke Size
OIL WELL Date First New Oil Run To Tanks 8/27/85 Length of Test	Date of Test 9/30/85 Tubing Pressure	Producing Method (Flow, pump, ze. Pumping	e lift, etc.)
OIL WELL. Pais First New Oil Run To Tanks 8/27/85 Length of Test 22 hours	Date of Test 9/30/85 Tubing Pressure 10 PSIG	Producing Method (Flow, pump, ga. Pumping Casing Pressure	Choke Size
OIL WELL Date First New Oil Run To Tanks 8/27/85 Length of Test 22 hours Lettal Prod. During Test	Date of Test 9/30/85 Tubing Pressure 10 PSIG Oil-Bbis.	Producing Method (Flow, pump, ga. Pumping Casing Pressure	Choke Size 3/4 Gae-MCF
OIL WELL Date First New Oil Run To Tanks 8/27/85 Length of Test 22 hours Letual Prod. During Test 327 Bbls	Date of Test 9/30/85 Tubing Pressure 10 PSIG Oil-Bbis.	Producing Method (Flow, pump, ga. Pumping Casing Pressure	Choke Size 3/4 Gae-MCF
OIL WELL Date First New Oil Run To Tanks 8/27/85 Length of Test 22 hours Actual Prod. During Test	Date of Test 9/30/85 Tubing Pressure 10 PSIG Oil-Bbis.	Producing Method (Flow, pump, ga. Pumping Casing Pressure	Choke Size 3/4 Gae-MCF

Form C-105 Revised 10-1-78

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SANTA FE			ANTATE	, NEW	MEXICO	875	0 1		5. State	e O11 &	Gas Leas	No.
FILE		ich sp (M							LG 7	7435		,
U.S.G.S.		WELL-COMP	LETICH PE	RECC	MPLETION	N RE	PORTA	ND LOG	1111	7777	77777	7777777
OPERATOR		OCT 09 "	**									
IG. TYPE OF WELL		UCI US			3 2 2				7 1121	<u> </u>	nent Name	7777777
	Ilia.		- FERRICK			写 1	VE		/			
	الإسائي	STATION STATION	EDIMENT.	الله المالية	OTHER_	<u> </u>	VE					
b. TYPE OF COMPLE	TION OIL	NAMTA 5	<u>. </u>					414/	8. Forn	n or Le	sse Name	
WELL OVE				SVR.	OGF (1 10	10E		Are	na Bl	anca	
2. Name of Operator				ě.		- I #5	/ 0 J		9. Weil	No.		
Merrion Oil	& Gas Cor	poration		(M	DISE		1			
Merrion U11 3. Address of Operator	4						16.5		10. Fie	ic and	Pool, or W	llacat
P. O. Box 84	0. Farmin	gton. New M	Mexico 8	7477	Dis	<i>j</i> = 7			WC	Entra	da	
4. Location of Well				,					1777	7777	7777	111111
										////	//////	
UNIT LETTER		2360		Sout	h LINE AND	1	200					
			·		111111	777	7777	TTTTT	12. Co.	inty	~~////	4444
THE Bastine or	36	20N	5W				XIIII		1	,	. [[]]	
		Reached 17, Do	RGE.	endy to F		7777	V 1777	RKR RT		inle		coego
	}				1		GL		, etc./		ev. Cashin 17' KB	
7/14/85		lug Back T.D.	3/27/85	16 17					T-	00.		-1-
	Į.	_		Many Many	e Compi., Ho	w 2	3. Interva Drilled	is , Rota	- TD	;	Cable Too	ois
5614' KB		69' KB						<u>→ : °</u>	- 10			
24. Progueing Interval	s), of this compl	etion — Top, Bot	tom, Name							25.	Was Direc	tional Survey
5515 - 5515	.5' KB En	trada										No
26. Type Electric and (Street Logs Burn									17 1/2-	Well Core	
* *		an I am Dus	ol Cuard	and C	ompopes+c	A Do	neitu		1.	No. Was	Mell Cole	•
Cement Bond	Correlati				~							
28.			ASING RECO	RD (Rep	ort all strings	set in	well)					
CASING SIZE	WEIGHT LE	J./FT. DEF	THISET		E SIZE			TING REC				T PULLED
9-5/8"	32 #/ft	. J-55	231' KB	1	3-1/2"	190) sx (2	224.2 ct	ı. ft.) C1	ass B	
7"	23 #/ft	J-55 5	5614' KB		8-3/4"	760) sx (]	1003.2	cu. ft	.) C	lass H	
	1					300) sx (:	396 cu.	ft.)	Clas	s H	
							-					
29.		LINER RECORD	•			3	0.	-	TUBING	RECOR	D	
SIZE	TOP	воттом	SACKS C	EMENT	SCREEN		SIZE	DE	PTH SE	Ţ	PACE	CERSET
			T i	1			2-7/8"		8' KB			
			- 									
31. Perforation Record	(Interval. size a	nd number!	!		32.	ACID	SHOT F	RACTURE,	CEMENT	SOUE	F7F FTC	•
		Total of	3 holes									
5514, 5515,					DEPTH						MATERIA	
(Shot 3 holes	5508 - 55	510, 4 hole	s 5514 -	5517,	5508 -	5517		-				Class H
Squeezed off					-			1% CaC	12. (4	2.7	cu. ft.	
•												
												
33.			21		UCTION	4.			1	•••	n	7-1
Date First Production	Prox	duction Method (I	rowing, gas i	iji, pump	ing – Size an	a type	pmwb)		Well S	otatus (Prod. or SI	ter-tu)
8/27/85		ımpinq							1	···		
Date of Test	Hours Tested	Choke Size	Prod'n. Test Pe		Oil - Bbi.	,	as — MCF	F Wat	er 🗕 Bbl.	10	Gas — 011 R	atte
9/30/85	22	3/4		<u> </u>	327		TŜTM		0			
Flow Tuning Press.	Casing Press	we Calculated How Rate	011 - B	bl.	Gas - N	ACF	Wa	ner – Bbl.		Oil G	avity - Af	OI (Corr.)
10 PSIG	1		→ 35	7	TST	M	-	0		3	2.9	1
34. Disposition of Gas	(Sold, used for f	uel, vented, etc.,)					Tes	it Witness	ес Ву		
Vented								М	erle 1	Ellsa	esser	1
35. List of Attachments									·			
												;
36. I hereby certify tha	the information	shown on both s	ides of this fo	orm is tru	e and comple	ie so th	e best of	my knowles	ige and b	elief.		
<i>f</i>	1	1 0		, -								
4	f	11 V		0-	erations	Man	ager			1	0/1/85	
SIGNED	\sim	N	TIT	LE	CLUCIONS	r.m.	-7		DATE		, -, -,	

INSTRUCTIONS

This form is to be filed with the appropriate District Office of the Division not later than 20 days after the completion of any newly-drilled or deepened well. It shall be accompanied by one copy of all electrical and radio-activity logs run on the well and a summary of all special tests conducted, including drill stem tests. All depths reported shall be measured depths. In the case of directionally drilled wells, true vertical depths shall also be reported. For multiple completions, Items 30 through 34 shall be reported for each zone. The form is to be filled in quintuplicate except on state land, where six copies are required. See Rule 1105.

INDICATE FORMATION TOPS IN CONFORMANCE WITH GEOGRAPHICAL SECTION OF STATE

		Souther	estern	New Mexico				Northwest	em Ne	ew Mexico	
T. Anhy	/		_ т.	Canyon	т.	Ojo A	Mamo		_ т.	Penn_ ''B''	
T. Sait			T.	T. Strawn			T. Kirtland-Fruitland			Penn. "C"	
B. Salt			т.	Atoka	т.			т.	Penn. "D"		
T. Yates			T.	Miss	T.	Cliff	House _	1308	_ т.	Leadville	
T. 7 Ri	vers		т.	Devonian	Т.	Mene	fee	1440	т.	Madison	
T. Quee	n		T.	Silurian	т.	Point	Lookout	2348	т.	Elbert	
T. Gray	burg		T.	Montoya	T.	Manc	os	2490	_ т.	McCracken	
T. San	Andres_		T.	Simpson	T.	Gallu	P	3300	т.	Ignacio Qtzte	
T. Glori	eta		_ т.	McKee	Bas	se Gree	enhorn _	4295	_ т.	Granite	
T. Padd	lock		T.	Ellenburger	T.	Dako	ta	4379	_ т.		·
T. Bline	ebry		т.	Gr. Wash	T.	Morri	son	4760	т.		
T. Tubb		<u></u>	T.	Granite	Т.	Todil	to	5494	_ т.		
T. Drink	kard	 	_ T.	Delaware Sand	Т.	Entra	da	5503	_ T.		
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ENERGY AND MINERALS DEPA				/	
40. 07 torico acceives		IL CONSERVA	TION DIVISION /	!	
DISTRIBUTION		P. O. BO	X 2088		Form C-103
SANTA FE		SANTA FE, NEW	MEXICO 87501	•	Revised 10-1-7
FILE			/	5a. Indicate 7	Type of Lease
. U.S.O.S.			1. /	Stote KX	
LAND OFFICE	- 		· · · · · · · · · · · · · · · · · · ·		Gas Lease No.
OPERATOR	ث لــــ		70:	LG 7435	Gus Cedse No.
				16 7433	*********
SI	JNDRY NOTICES	AND REPORTS ON	WELLS		
MACS EINT JEU TON OO)	PLICATION FOR PERMIT	OR TO DEEPEN OF PLUG E	HEROPOSALS,		
1.	_	10 SEP 35	229 11:	7, Unit Agree	ment Name
WELL WELL	OTHER-	100	11.01		
2. Name of Operator				8. Form or Le	ase Name
Merrion Oil & Gas	Corporation		The Address of the Control of the Co	Arena Bl	lanca
3. Address of Operator	COLPOIGCION	. , ,		9. Well No.	-anca
P. O. BOx 840, Fa	rmington Now	Morrigo 97400		1	
	Imingcon, New	Mexico 6/499		10 5/-14	Dool or Wildow
4. Location of Well	.1		***	i	Pool, or Wildcat
UNIT LETTER T	. 2360 FEET	FROM THE South	LINE AND	WC Entra	ıda
East	36	TOWNSHIP20	IN 5W	Men Allilli	
THE CINE,	, SECTION	TOWNSHIP	RANGE	- um.m. ////////	
	15.	Elevation (Show whether	DF. RT. GR. etc.)	12. County	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
		634' GL	,	1	
	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	·····		McKinley	
Ch	eck Appropriate	Box To Indicate N	lature of Notice, Report	or Other Data	
NOTICE	OF INTENTION T	O:	SUBSE	QUENT REPORT C)F:
•			•		
PERFORM REMEDIAL WORK		PLUG AND ABANDON	REMEDIAL WORK	Π AL	TERING CASING
TEMPORARILY ABANDON			COMMENCE DRILLING OPHS.	=	US AND ABANDONMENT
PULL OR ALTER CASING		CHANGE PLANS	CABING TEST AND CEMENT JOB		
POLE OF METER CASING		CHANGE PEARS		_	
			OTHER First Pr	DOUGLION	
OTHER		LJ	•		
17. Describe Proposed or Comple	ated Operations (Clear	lu state all nesticest det	ails and sive persinent dates i	including actionted data	of starting any property
work) SEE RULE 1103.	Med Operations (Crear	ly state all pertinent des	atis, and give pertinent dates, t	ucinding estimaten ante	of starting any proposed
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Pressure tested c	asing to 4000	PSI for 30 minu	tes. Held.		
PBTD - 5569' KB.					
First Production	- 8/27/85.				
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			CON		
		•	Dist DIV	Ĵ	
			AUG 2 9 1985 OIL CON. DIN	7 &	
18. I hereby certify that the infor	mation above is true a	nd complete to the best	of my knowledge and belief.		
11 - V	()				
the 1	V	*I*I# ^-	erations Managor	DATE	8/28/85
-iento	<u> </u>	·····	cractons manager		_11/-/-11/-(1.)
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5.456	<i>YL</i> ,		SUPERVISOR DISTRICT # 4	_	AUG 29 1985

STATE OF NEW MEXICO

CONDITIONS OF APPROVAL, IF ANY

DISTRIBUTION SAPATA FE NEW MEXICO OF CONSERVATION COMMISSION Separation Se	NO. OF COPIES RECEIVED			Form C-103
SUNDRY NOTICES AND REPORTS ON WELLS SUNDRY NOTI	DISTRIBUTION	 	/	
Support Supp		NEW MEXICO ON	CONSERVATION COMMISSION	
SUNDRY NOTICES AND REPORTS ON WELLS OPERATOR ALCOMORD AND AND AND AND AND AND AND AND AND AN		 		Sa Indicate Type of Lease
SUNDRY NOTICES AND REPORTS ON WELLS Content Content	<u> </u>	-		
SUNDRY NOTICES AND REPORTS ON WELLS 1. SUNDRY NOTICES AND REPORTS ON WELLS 2. Rose of Consensor Merrian Oil & Gas Corporation 1. Autres of Chapteries P. O. Box 840, Farmington, New Mexico 87499 1. Common of Companies 1. Survey of Chapteries 1. Sundry Notice of Chapteries 1. Survey of Chapteries 20N BASE 1. Survey of Chapteries 1. Survey				
12. Create Section 10 1 & Gas Corporation 2. Advances of Specimen 2. Advances of Specimen 2. P. O. Box 840, Farmington, New Mexico 87499 3. Carress of Specimen 2. P. O. Box 840, Farmington, New Mexico 87499 3. Carress of Specimen 3. Print and France Blanca 3. Superior of Well 4. Location of Well 4. Location of Well 4. Location of Well 5. Check Appropriate Box To Indicate Nature of Notice, Report of Other Data NOTICE OF INTENTION TO: 2. Check Appropriate Box To Indicate Nature of Notice, Report of Other Data NOTICE OF INTENTION TO: 2. Check Appropriate Box To Indicate Nature of Notice, Report of Other Data NOTICE OF INTENTION TO: 2. Check Appropriate Box To Indicate Nature of Notice, Report of Other Data NOTICE OF INTENTION TO: 2. Check Appropriate Box To Indicate Nature of Notice, Report of Other Data NOTICE OF INTENTION TO: 2. Check Appropriate Box To Indicate Nature of Notice, Report of Other Data 3. Check Appropriate Box To Indicate Nature of Notice, Report of Other Data NOTICE OF INTENTION TO: 2. Check Appropriate Box To Indicate Nature of Notice, Report of Other Data 3. Check Appropriate Box To Indicate Nature of Notice, Report of Other Data NOTICE OF INTENTION TO: 2. Check Appropriate Box To Indicate Nature of Notice, Report of Other Data 3. Check Appropriate Box To Indicate Nature of Notice, Report of Other Data 3. Check Appropriate Box To Indicate Nature of Notice, Report of Other Data 3. Check Appropriate Box To Indicate Nature of Notice, Report of Other Data 3. Check Appropriate Check To Indicate Nature of Notice, Report of Other Data 3. Check Appropriate Box To Indicate Nature of Notice, Report of Other Data 3. Check Appropriate Check To Indicate Nature of Notice, Report of Other Data 4. Check Appropriate Check To Indicate Nature of Notice, Report of Other Data 4. Check Appropriate Check To Indicate Nature of Notice, Report of Other Data 4. Check Appropriate Check To Indicate Nature of Notice, Report of Other Data 5. Check Appropriate Check To Indicate Nature of				LG 7435
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Merrion Oil & Gas Corporation 7. Assess of Operation Of New 1	OIL X GAS WELL	OTHER-		
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South Line and 1200 rest from the South Line and 1200 rest from WC Entrada WC	· ·	rmington. New Mexico. 8	7199	1 11
I 2360 THE EAST CIME, SECTION 36 TOWNSHIP 20N MARKET DF, RT, GR, stc.) Check Appropriate Box To Indicate Nature of Notice, Report or Other Data NOTICE OF INTENTION TO: SUBSEQUENT REPORT OF: STENCEM REVEDIAL WORK TEST AND CEMEST PLUS AND ABANDON THE PLUS A		Zmington, new Mexico o	1400	10. Field and Pool, or Wildcat
15. Elevation (Show whether DF, RT, GR, etc.) 16. Check Appropriate Box To Indicate Nature of Notice, Report or Other Data NOTICE OF INTENTION TO: PERFORM REMEDIAL WORK TELEPHORAFILY ABANDON PULL OR ALTER CASING CHANGE PLANS THE COMMERCE SPILLING STIME. TO 5614' KB, 7/27/85. Ran 7", 23 %/ft. production casing. Set casing @ 5614' KB with 760 sx (1003.2 cu. ft.) Class H, 50-50 poz w/4% gel. (2 stage cement job.) TO 56.14' KB with 760 sx (1003.2 cu. ft.) Class H, 50-50 poz w/4% gel. TO 57. 30 1985 OIL CON. DIV. DIST. 3		. 2360 FEET FROM THE SOL	ith Line and 1200 FEET	MC Protected
Check Appropriate Box To Indicate Nature of Notice, Report or Other Data NOTICE OF INTENTION TO: PERFORM MEMEDIAL WORK TEMPORABILITY ASAMDON PULL OR ALTER CASING OTHER 17. Describe Proposed or Completed Operations (Clearly state all persinent details, and give pertinent dates, including estimated date of starting any proposed work) see RULE 119. 17. Search Report OF: 18. Thereby certify that the information above is true and complete to the best of my knowledge and belief. 18. Thereby certify that the information above is true and complete to the best of my knowledge and belief. 19. Thereby certify that the information above is true and complete to the best of my knowledge and belief. 19. Thereby certify that the information above is true and complete to the best of my knowledge and belief. 19. Thereby certify that the information above is true and complete to the best of my knowledge and belief. 19. Thereby certify that the information above is true and complete to the best of my knowledge and belief. 19. Thereby certify that the information above is true and complete to the best of my knowledge and belief. 19. Thereby certify that the information above is true and complete to the best of my knowledge and belief. 19. Thereby certify that the information above is true and complete to the best of my knowledge and belief. 19. Thereby certify that the information above is true and complete to the best of my knowledge and belief. 19. Thereby certify that the information above is true and complete to the best of my knowledge and belief. 19. Thereby certify that the information above is true and complete to the best of my knowledge and belief. 19. Thereby certify that the information above is true and complete to the best of my knowledge and belief. 19. Thereby certify that the information above is true and complete to the best of my knowledge and belief.				
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OTHER 17. Describe Proposed or Completed Operations (Clearly state all persinent details, and give pertinent dates, including estimated date of starting any proposed work) SER RULE 1103. TD 5614' KB, 7/27/85. Ran 7", 23 #/ft. production casing. Set casing @ 5614' KB with 760 sx (1003.2 cu. ft.) Class H, 50-50 poz w/4% gel. 300 sx (396 cu. ft.) Class H, 50-50 poz, 4% gel. (2 stage cement job.) DECEIVE JUL30 1985 OIL CON. DIV. DIST. 3 18. Thereby certify that the information above is true and complete to the best of my knowledge and belief. THE Operations Manager DATE 7/29/85 JUL 20 1985	TEMPORARILY ABANDON		COMMENCE DRILLING OPNS.	PLUG AND ABANDONMENT
17. Descripe Proposed or Completed Operations (Clearly state all pertinent derails, and give pertinent dates, including estimated date of starting any proposed work) SEE RULE 1703. TD 5614' KB, 7/27/85. Ran 7", 23 \$\forall f(\text{tr})\$, production casing. Set casing @ 5614' KB with 760 sx (1003.2 cu. ft.) Class H, 50-50 poz w/4\(\frac{1}{3}\) gel. (2 stage cement job.) DECEIVE JUL3 0 1985 OIL CON. DIV. DIST. 3 18. I hereby certify that the information above is true and complete to the best of my knowledge and belief. Three Operations Manager PATE 7/29/85	PULL OR ALTER CASING	CHANGE PLANS	CASING TEST AND CEMENT JQB	
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	APPROVED BY	71T	SUPERVISOR DISTRICT 温 3	· // 1000

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NO. OF COPIES RECEIVED		/ .	Form C-103
DISTRIBUTION			Supersedes Old
SANTAFE	NEW MEXICO OIL CONS	ERVATION COMMISSION	C-102 and C-103 Effective 1-1-65
FILE			
u.s.g.s.	*		5a. Indicate Type of Lease
LAND OFFICE	1 10 25	554 J.D.	State X Fee
OPERATOR			5. State Oil & Gas Lease No.
	Section 1	11 11 2 10 11 1 1 1 1 1 1 1 1 1 1 1 1 1	LG 7435
SUNDR' OD NOT USE THIS FORM FOR PROI USE "APPLICATI	Y NOTICES AND REPORTS ON POSALS TO DRILL OR TO DEEPEN OR PLUG BON FOR PERMIT -" (FORM C-101) FOR SU	MELLS ACK TO A DIFFERENT RESERVOIR. H PROPOSALS.)	
OIL GAS WELL	OTHER-		7. Unit Agreement Name
. Name of Operator			8. Farm or Lease Name
Merrion Oil & Gas	Corporation		Arena Blanca
. Address of Operator			9. Well No.
P. O. Box 840 Fa:	rmington, New Mexico 87	499	1
. Location of Well			10. Field and Pool, or Wildcat
UNIT LETTER I 2	360 FEET FROM THE South	LINE AND	WC Entrada
•			
THEEast	N 36 TOWNSHIP 20N	5W	
	- Tomasair		
	15. Elevation (Show whether	DF, RT, GR, etc.)	12. County
	6634' GL		McKinley ()
6. Check	Appropriate Box To Indicate N	ature of Notice Report of C	Other Data
NOTICE OF IN			NT REPORT OF:
PERFORM REMEDIAL WORK	PLUG AND ABANDON	REMEDIAL WORK	ALTERING CASING
TEMPORARILY ABANDON		COMMENCE DRILLING OPNS.	PLUG AND ABANDONMENT
PULL OR ALTER CASING	CHANGE PLANS		<u></u>
		Change of pla	ins
OTHER			
 Describe Proposed or Completed Operators SEE RULE 1903. 	erations (Clearly state all pertinent det	zils, and give pertinent dates, includi	ng estimated date of starting any proposed
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To the event Mann	ion ologha to mun angine	wo roquest permission	to change plans
	ion elects to run casing	, we request permission	to change plans
as follows:			
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	<pre>/ft, N-80 Buttress Casin Cement with 250 sx Clas</pre>		-) followed by
Single Stage	H 2% Gel (122 cu. ft.).	Top of coment estimat	ed = 1200!
100 SX Class	n 28 Ger (122 cu. 10.).	Top of Cement escima	
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			JUL 1 8 1985
		Oll	CON. DIV.
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			DIST. 3
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8. I hereby certify that the information	above is true and complete to the best	or my knowledge and belief.	
AT	!		- /2 - /2 -
IIGNED /	7171.5	Operations Manager	7/17/85
			JUL 1 8 1985
)		OOF TO 1303
APPROVED BY TO THE	TITLE	SUPERVISOR DISTRICT # 5	DATE

CONDITIONS OF APPROVAL, IF ANY:

O. OF COPIES RECEIVED		/	
DISTRIBUTION	T - 		Form C-103 Supersedes Old
SANTA FE	+	USERVATION COMMISSION	C-102 and C-103
FILE	NEW WEXICO OIL COM	NSERVATION COMMISSION	Effective 1-1-65
	+	and the same of th	5a. Indicate Type of Lease
U.S.G.S.		•	
LAND OFFICE	40.2	$\sum_{i=1}^{n} \sum_{j=1}^{n} \sum_{i=1}^{n} \sum_{j=1}^{n} \sum_{j=1}^{n} \sum_{j=1}^{n} \sum_{i=1}^{n} \sum_{j=1}^{n} \sum_{j$	State Y Fee
OPERATOR		• •	5. State Oil & Gas Lease No.
			LG 7435
SL (DO NOT USE THIS FORM F USE "AP	JNDRY NOTICES AND REPORTS O OR PROPOSALS TO DRILL OR TO DEEPEN OR PLUC PLICATION FOR PERMIT —" (FORM C-101) FOR S	N WELLS BACK TO A DIFFERENT RESERVOIR. BUCH PROPOSALS.)	
I. OIL X GAS WELL	OTHER-	Section 1997	7. Unit Agreement Name
2. Name of Operator Merrion Oil & Gas	Corporation		8. Form or Lease Name Arena Blanca
3. Address of Operator			9. Well No.
	mington, New Mexico 87499		1
4. Location of Weil	2260	1200	10. Field and Pool, or Wildcat
UNIT LETTER	South	LINE AND FEET FR	°M WC Entrada
THE East LINE,	section 36 township 20N	RANGE 5W NMP	
	15. Elevation (Show wheth	er DF, RT, GR, etc.)	12. County
	6634' GL	, , , , ,	McKinley
16. Ch	eck Appropriate Box To Indicate	Nature of Notice Report of C	
	OF INTENTION TO:	_	NT REPORT OF:
PERFORM REMEDIAL WORK	PLUG AND ABANDON	REMEDIAL WORK	
in the second se	PLUG AND ABANDON		ALTERING CASING
PULL OR ALTER CASING	CHANGE PLANS	COMMENCE DRILLING OPNS.	PLUG AND ABANDONMENT
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OTHER		- [
17. Describe Proposed or Complework) SEE RULE 1703.	eted Operations (Clearly state all pertinent d	etails, and give pertinent dates, includi	ng estimated date of starting any proposed
Spud 7/14/85, 5:30) PM.		
at 231' KB with 19 Circulated 4 Bbls		B 2% CaCl2.	e casing. Set casing
rressure tested to	600 PSI for 30 minutes.	Heig.	
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		Dr	STY. DIV
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18. I hereby certify that the infor	mation above is true and complete to the bea	st of my knowledge and belief.	
/ / /	- X /		
SIGNED #	TITLE	Operations Manager	DATE 7/16/85
/ *)	\not		- V
APPROVED BY	TITLE_	SUPERVISOR DISTRICT # 5	JUL 1 8 1985

NERGY AND MINERALS DEPARTMENT DIVISION Service DIVISION Service DIVISION Service DIVISION DI	STATE OF NEW MEXIC	CO	٠ رمه	and the same of th			-	.	1	
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Size Of HOLE Size Of CASING Weight PER FOOT SETTING DEFTH SACKS OF CEMENT Size Of HOLE Size Of ASING Weight PER FOOT SETTING DEFTH SACKS OF CEMENT Size Of Hole to 200 ft. and set 200 ft. of 9–5/8", 32 8/ft. J-55 casing with 75 sx class B 28 CaCl2. Will pressure test to 600 PSI for 30 minutes. Drill 8-3/4" hole to 200 ft. and set 200 ft. of 9–5/8", 32 8/ft. J-55 casing with 75 sx class B 28 CaCl2. Will pressure test to 600 PSI for 30 minutes. Drill 8-3/4" hole to 5520 fts. Will run open hole logs. Will run 7", 23 8/ft. J-55 casing to 5520 fts. Will run open hole logs. Will run 7", 23 8/ft. J-55 casing to 5520 fts. Will run open hole logs. Will run 7", 23 8/ft. J-55 casing to 5520 fts. Will run open hole logs. Will run 7", 23 8/ft. J-55 casing to 5520 fts. Will run open hole logs. Will run 7", 23 8/ft. J-55 casing to 5520 fts. Will run fillstem test of Bntrada If Bntrada appears productive, will drill to 5620 fts. Will run open hole logs. Will run 7", 23 8/ft. J-55 casing to 5520 fts. Will run fillstem test of Bntrada If Bntrada appears productive, will drill perform two stages. Pirst stage will pump 150 sx class B 29 lot cover from To to top(183 of Morrison) 4630". Will set stage tool 9 4600" est. and cement in two stages. Pirst stage will pump 150 sx class B 29 lot cover from To to top(183 of Morrison) 4630". Will set stage tool 9 4600" est. and cement with 350 sx Class B 28 (cu ft D-79 (726 cu. ft.) followed by 5 sx Class B 6(c) cu. ft.). Top cement standard at surface. Will perforate and stimulate as deemed necessary. Drilling mid will be low solids, non-dispersed, low water loss mad using Bentonite, starch, CMC, and fresh water. Minimum specifications for pressure control is 10" 900 series double ram blowout preventer.	DISTRIBUTION		BAN	NTA FE, NEW M	TEX CO 87501			SA. Indicate	Type of Lease	\neg
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APPLICATION FOR PERMIT TO DRICL, DEEPEN, OR PLUG BACK APPLICATION FOR PERMIT TO DRICL, DEEPEN, OR PLUG BACK Type of Work Type	<u> </u>		On Ce	DAISEDVATION DIV	ASION .			LG 7435	5	
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Section of the Gas Corporation Section S		- 1			SINGLE IV	54115 T1E		_		
Merrion Oil & Gas Corporation Address of Operator P. O. Box 1017, Parmington, New Mexico 87499 Location of Well Out Letter 1 Location 2360 PERFYROW THE South Line 1200 PERFYROW THE East Line of SEC. 36 PROPOSED CASING AND CEMENT PROGRAM SIZE OF HOLE SIZE OF CASING WEIGHT PER FOOT SETTING DEPTH SACKS OF CEMENT EST. TOP 12-1/4" 9-5/8", J-55 23 \$/ft. 23 \$/ft. 20 \$ft. 23 \$/ft. 20 \$ft. 24 \$ft. 25 \$ft. 26 \$ft. 27 \$ft. 28 \$ft. 29 \$ft. 29 \$ft. 20 \$ft. 20 \$ft. 20 \$ft. 21 \$ft. 25 \$ft. 26 \$ft. 26 \$ft. 27 \$ft. 28 \$ft. 29 \$ft. 20 \$ft. 20 \$ft. 20 \$ft. 21 \$ft. 22 \$ft. 25 \$ft. 26 \$ft. 26 \$ft. 27 \$ft. 28 \$ft. 29 \$ft. 29 \$ft. 29 \$ft. 29 \$ft. 29 \$ft. 20 \$ft. 20 \$ft. 20 \$ft. 21 \$ft. 22 \$ft. 25 \$ft. 25 \$ft. 25 \$ft. 25 \$ft. 26 \$ft. 27 \$ft		OTH	ir '		ZONE A	zc	NE L		Lanca	\dashv
Address of Operator P. O. Box 1017, Farmington, New Mexico 87499 Licention of Well Unity LETTER 1	-•	Gas Corr	noration							
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1200 PROPOSED CASING AND CEMENT PROGRAM 13A. Formation 20. Rotary or C.F.	P. O. Box 101	7, Farmir	ngton, N	lew Mexico 874	199					
18. Formation 18. Formatio	Location of Well UNIT LETT	er <u>I</u>	Loc	ATED 2360	FEET FROM THESC	uth	LINE	HILLI		1
18. Formation 18. Formatio				26	2011	C 7.7		///\$LEX		U
19. Proposed Depth 19. Proposed Depth 19. Formation 20. Rotary or C.T. Scale 19. Elevations/Show whether DF, RT, etc. 21.A. Kind & Stratus Pilos, Bond 21B. Drilling Contractor 56.20 Entrada Rotary Summer/1985 Summe	ND 1200 FEET FROM	THE East	LILLIA	E OF SEC. 36	TWP. 2019 RGE.	7777.	VIVIVI	12 County		H
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12-1/4" 9-5/8", J-55 32 #/ft. 200 ft. 75 sx surface 8-3/4" 7", J-55 23 #/ft. 5620 ft. as below (970 cu. ft.) Will drill 12-1/4" hole to 200 ft. and set 200 ft. of 9-5/8", 32 #/ft. J-55 casing with 75 sx Class B 2% CaCl2. Will pressure test to 600 PSI for 30 minutes. Drill 8-3/4" hole to 5520' KB. Will run drillstem test of Entrada Interval. If Entrada appears productive, will drill to 5620' KB. Will run open hole logs. Will run 7", 23 #/ft, J-55 casing to 5620' and cement in two stages. First stage will pump 150 sx Class H 2% gel to cover from TD to top(183 of Morrison @ 4630'. Will set stage tool @ 4600' est. and cement with 350 sx Class B 2% (cu ft D-79 (726 cu. ft.) followed by 50 sx Class H (61 cu. ft.). Top of cement estimated at surface. Will perforate and stimulate as deemed necessary. Drilling mud will be low solids, non-dispersed, low water loss mud using Bentonite, starch, CMC, and fresh water. Minimum specifications for pressure control is 10" 900 series double ram blowout preventer. APPROVILEXTRIF Commentation blowd by 50 States of my knowledge and belief. ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If PROPOSAL IS TO DEEPEN OF PLUS BACK, SIVE DATA ON PRESENT PROCEEDS. ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If PROPOSAL IS TO DEEPEN OF PLUS BACK, SIVE DATA ON PRESENT PROCEEDS. ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If PROPOSAL IS TO DEEPEN OF PLUS BACK, SIVE DATA ON PRESENT PROCEEDS. ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If PROPOSAL IS TO DEEPEN OF PLUS BACK, SIVE DATA ON PRESENT PROCEEDS. ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If PROPOSAL IS TO DEEPEN OF PLUS BACK, SIVE DATA ON PRESENT PROCEDURE. APPROVICE SPACE DESCRIBE PROPOSED PROGRAM: If PROPOSAL IS TO DEEPEN OF PLUS BACK, SIVE DATA ON PRESENT PROCEDURE. ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If PROPOSAL IS TO DEEPEN OF PLUS BACK, SIVE DATA ON PRESENT PROCEDURE. APPROVICE SPACE DESCRIBE PROPOSED PROGRAM: If PROPOSAL IS TO DEEPEN OF PLUS BACK, SIVE DATA ON PRESENT PROCEDURE.	•	RT, etc.)					EIITT AUA		L. Date Work will start	-
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ereby certify that the information above instrue and complete to the best of my knowledge and belief.	6634' GL 3. SIZE OF HOLE 12-1/4"	SIZE OF 9-5/8",	Nation PI CASING J-55	ROPOSED CASING AN WEIGHT PER FOO 32 #/ft.	21B. Drilling Control ND CEMENT PROGRA T SETTING DEI 200 ft	AM PTH S	SACKS OF	Summe	EST. TOP	
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	SIZE OF HOLE 12-1/4" 8-3/4" Will drill 12-1/ sx Class B 2% Ca 5520' KB. Will drill to 5620' K cement in two st of Morrison @ 46 D-79 (726 cu. ft Will perforate a dispersed, low w Minimum specific	SIZE OF 9-5/8", 7", J-55 4" hole to the color of the col	Nation PI CASING J-55 CO 200 f Il press Istem te run ope Irst sta Il set s ved by 5 Late as s mud us or press	WEIGHT PER FOO 32 #/ft. 23 #/ft. 23 #/ft. t. and set 200 ure test to 60 st of Entrada n hole logs. ge will pump 1 tage tool @ 46 0 sx Class H (deemed necessa ing Bentonite, ure control is APPROV/LEXTA UNLESS DELEMO SPUD NOTICE MU WITHIN 10 DAYS	T SETTING DEI 200 ft 5620 ft 0 Ft. of 9-5/8 0 PSI for 30 Interval. I Will run 7", 150 sx Class F 500' est. and (61 cu. ft.). ary. Drilling starch, CMC, s 10" 900 seri	", 32 minut f Ent 23 #/ 2% g cemen Top mud and es do	#/ft. es. Dr. rada ar ft, J-5 el to cont with of ceme will be fresh v	J-55 cascill 8-3, ppears processor from 350 sx (cover from a low solution) and blowout the cover from a low solution and blowout the cover from a low solution.	EST. TOP surface cu. ft.) sing with 75 /4" hole to roductive, will g to 5620' and om TD to top(183 class B 2% (cu nated at surface lids, non-	ft:

SUPERVISOR DISTRICT # 3

APR 25 1985

(This space for State Use)

ESTIMATED TOPS

Fruitland	Surface
Pictured Cliffs	235
Cliffhouse	480
Menefee	1440
Point Lookout	2340
Mancos	2460
Gallup A	3235
Ballup B	3315
Massive Gallup	3495
Sanostee	3950
Greenhorn	4285
Dakota	4500
Morrison	4630
Todilto	5505
Entrada	5517
TD	5620

NEW MEXICO OIL CONSERVATION COMMISSION WELL LOCATION AND ACREAGE DEDICATION PLAT

Form C-102 Supersedes C-128 Effective 1-1-65

		All distances must be	from the outer	boundaries of the	Section.	
perator			Legse	D2		Well No.
MERRION OIL &	GAS CORPOR	ATION	Are	ena Blanca		1
Unit Letter Seci		Township	Range	l l	inty	
I	36	20N	5W		McKinley	
Actual Footage Location						
		uth line and	1200	feet from	n the East	line
Ground Level Elev:	Producing Form		Pool			Dedicated Acreage:
6634	Entrada		WC E	ntrada		40 Acres
2. If more than interest and ro 3. If more than or dated by comm Yes	one lease is oyalty). ne lease of dinunitization, un No If an	fferent ownership is nitization, force-pool swer is "yes," type o	dedicated to ing. etc?	ach and identified the well, have the well, have the well	fy the ownership	the plat below. thereof (both as to working of all owners been consoli-
this form if ne No allowable w	cessary.) vill be assigne	d to the well until al	l interests l	nave been cons	solidated (by co	ommunitization, unitization, en approved by the Commis-
	1			**************************************		CERTIFICATION
	 	APR 25	1 2		Name Steve Position Operat Company	y certify that the information con- herein is true and complete to the my knowledge and belief. S. Dunn ions Manager n Oil & Gas Corp.
	Sec.	36	23601	1200' LG 7435	shown a notes of under mile true knowled Date Surv	1 12, 1985
	Scal	e: 1"=1000'	1	<u></u>	1 1 ' 16	B. Kery Jr.