

ABOVE THIS LINE FOR DIVISION USE ONLY

NEW MEXICO OIL CONSERVATION DIVISION  
- Engineering Bureau -

**ADMINISTRATIVE APPLICATION COVER SHEET**

THIS COVERSHEET IS MANDATORY FOR ALL ADMINISTRATIVE APPLICATIONS FOR EXCEPTIONS TO DIVISION RULES AND REGULATIONS

**Application Acronyms:**

[NSP-Non-Standard Proration Unit] [NSL-Non-Standard Location]  
[DD-Directional Drilling] [SD-Simultaneous Dedication]  
[DHC-Downhole Commingling] [CTB-Lease Commingling] [PLC-Pool/Lease Commingling]  
[PC-Pool Commingling] [OLS - Off-Lease Storage] [OLM-Off-Lease Measurement]  
[WFX-Waterflood Expansion] [PMX-Pressure Maintenance Expansion]  
[SWD-Salt Water Disposal] [IPI-Injection Pressure Increase]  
[EOR-Qualified Enhanced Oil Recovery Certification] [PPR-Positive Production Response]

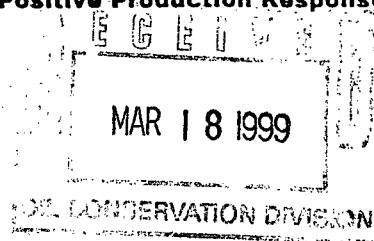
[1] TYPE OF APPLICATION - Check Those Which Apply for [A]

[A] Location - Spacing Unit - Directional Drilling  
☒ NSL ☐ NSP ☐ DD ☐ SD

Check One Only for [B] and [C]

[B] Commingling - Storage - Measurement  
☐ DHC ☐ CTB ☐ PLC ☐ PC ☐ OLS ☐ OLM

[C] Injection - Disposal - Pressure Increase - Enhanced Oil Recovery  
☐ WFX ☐ PMX ☐ SWD ☐ IPI ☐ EOR ☐ PPR



[2] NOTIFICATION REQUIRED TO: - Check Those Which Apply, or ☒ Does Not Apply

- [A] ☐ Working, Royalty or Overriding Royalty Interest Owners
- [B] ☐ Offset Operators, Leaseholders or Surface Owner
- [C] ☐ Application is One Which Requires Published Legal Notice
- [D] ☐ Notification and/or Concurrent Approval by BLM or SLO  
U.S. Bureau of Land Management - Commissioner of Public Lands, State Land Office
- [E] ☐ For all of the above, Proof of Notification or Publication is Attached, and/or,
- [F] ☐ Waivers are Attached

[3] INFORMATION / DATA SUBMITTED IS COMPLETE - Statement of Understanding

I hereby certify that I, or personnel under my supervision, have read and complied with all applicable Rules and Regulations of the Oil Conservation Division. Further, I assert that the attached application for administrative approval is accurate and complete to the best of my knowledge and where applicable, verify that all interest (VI, RI, ORRI) is common. I understand that any omission of data (including API numbers, pool codes, etc.), pertinent information and any required notification is cause to have the application package returned with no action taken.

Note: Statement must be completed by an individual with supervisory capacity.

Bill Baker Jr  
Print or Type Name

[Signature]  
Signature

Exploration Manager  
Title

3-8-99  
Date

# DAVID H. ARRINGTON OIL & GAS, INC.

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P.O. BOX 2071 , MIDLAND, TEXAS 79702  
OFF (915) 682-6685  
FAX (915) 682-4139

March 8, 1999

Mr. Michael L. Stogner  
Oil Conservation Division  
New Mexico Department of Energy  
Minerals & Natural Resources  
2040 South Pacheco  
Santa Fe, New Mexico 87505

99 MAR 18 PM 4:01

OIL CONSERVATION DIV.

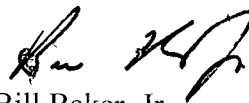
Re: Application of David H. Arrington Oil & Gas, Inc.  
for Administrative Approval of an unorthodox well location "Irresistible #1"  
Section 33, T16S-R36E, Lea County, New Mexico

Dear Mr. Stogner:

Enclosed please find the Application of David H. Arrington Oil & Gas, Inc. for Administrative Approval of an unorthodox location for the "Irresistible" #1 well located 1351' FNL & 696' FWL of section 33, Township 16 South, Range 36 East, N.M.P.M., Lea County, New Mexico. This unorthodox location is unorthodox to the inner quarter-quarter section of our proposed forty-acre unit and is encroaching upon our own leases and should not affect any adjoining or diagonal spacing units.

Your due consideration to this application is most appreciated. Should you have any questions, please feel free to call me at 915-682-6685.

Sincerely,



Bill Baker, Jr.  
Exploration Manager

BDB/nm

District I  
PO Box 1980, Hobbs, NM 88241-1980  
District II  
811 South First, Artesia, NM 88210  
District III  
1000 Rio Brazos Rd., Aztec, NM 87410  
District IV  
2040 South Pacheco, Santa Fe, NM 87505

State of New Mexico  
Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION  
2040 South Pacheco  
Santa Fe, NM 87505

Form C-101  
Revised October 18, 1994  
Instructions on back  
Submit to Appropriate District Office  
State Lease - 6 Copies  
Fee Lease - 5 Copies

☐ AMENDED REPORT

APPLICATION FOR PERMIT TO DRILL, RE-ENTER, DEEPEN, PLUGBACK, OR ADD A ZONE

<sup>1</sup> Operator Name and Address. David H. Arrington Oil & Gas, Inc. P.O. Box 2071 Midland, Texas 79702		<sup>2</sup> OGRID Number 005898
		<sup>3</sup> API Number 30 - 0
<sup>4</sup> Property Code	<sup>5</sup> Property Name Irresistible	<sup>6</sup> Well No. 1

<sup>7</sup> Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
E	33	16S	36E		1351	North	696	West	Lea

<sup>8</sup> Proposed 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
<sup>9</sup> Proposed Pool 1 Wildcat					<sup>10</sup> Proposed Pool 2				

<sup>11</sup> Work Type Code N	<sup>12</sup> Well Type Code O	<sup>13</sup> Cable/Rotary R	<sup>14</sup> Lease Type Code P	<sup>15</sup> Ground Level Elevation 3898
<sup>16</sup> Multiple N	<sup>17</sup> Proposed Depth 11,400	<sup>18</sup> Formation Wolfcamp	<sup>19</sup> Contractor Peterson	<sup>20</sup> Spud Date May 1, 1999

<sup>21</sup> Proposed Casing and Cement Program

Hole Size	Casing Size	Casing weight/foot	Setting Depth	Sacks of Cement	Estimated TOC
17 1/2"	13 3/8"	48#	425'	460	Circl.
11"	8 5/8"	32#	4950'	770	500' above upper
7 7/8"	5 1/2"	17#	11,400'	600	most pay

<sup>22</sup> 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.

Set surface casing @ 425'. Circ1 cement to surface. Set inter csg @ approx 4900'. Cement. Install BOP's. Tsg to 100 psi. Drill 7 7/8" hole to 11,400'. DST any prospective pays. Run 5 1/2" production casing through Wolfcamp if justified.

<sup>23</sup> I hereby certify that the information given above is true and complete to the best of my knowledge and belief.

Signature:

Printed name:

David H. Arrington

Title:

President

OIL CONSERVATION DIVISION

Approved by:

Title:

Approval Date:

Expiration Date:

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

State of New Mexico  
Energy, Minerals, and Natural Resources Department

Form C-102  
Revised 02-10-94

Instructions on back

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

**OIL CONSERVATION DIVISION**

P. O. Box 2088  
Santa Fe, New Mexico 87504-2088

Submit to the Appropriate  
District Office  
State Lease - 4 copies  
Fee Lease - 3 copies

☐ AMENDED REPORT

**DISTRICT III**  
1000 Rio Brazos Rd.  
Aztec, NM 87410

**DISTRICT IV**  
P. O. Box 2088  
Santa Fe, NM 87507-2088

**WELL LOCATION AND ACREAGE DEDICATION PLAT**

<sup>1</sup> API Number		<sup>2</sup> Pool Code		<sup>3</sup> Pool Name			
<sup>4</sup> Property Code		<sup>5</sup> Property Name <b>IRRESISTIBLE</b>				<sup>6</sup> Well Number <b>1</b>	
<sup>7</sup> OGRID No.		<sup>8</sup> Operator Name <b>DAVID H. ARRINGTON OIL &amp; GAS, INC.</b>				<sup>9</sup> Elevation <b>3898'</b>	

**<sup>10</sup> SURFACE LOCATION**

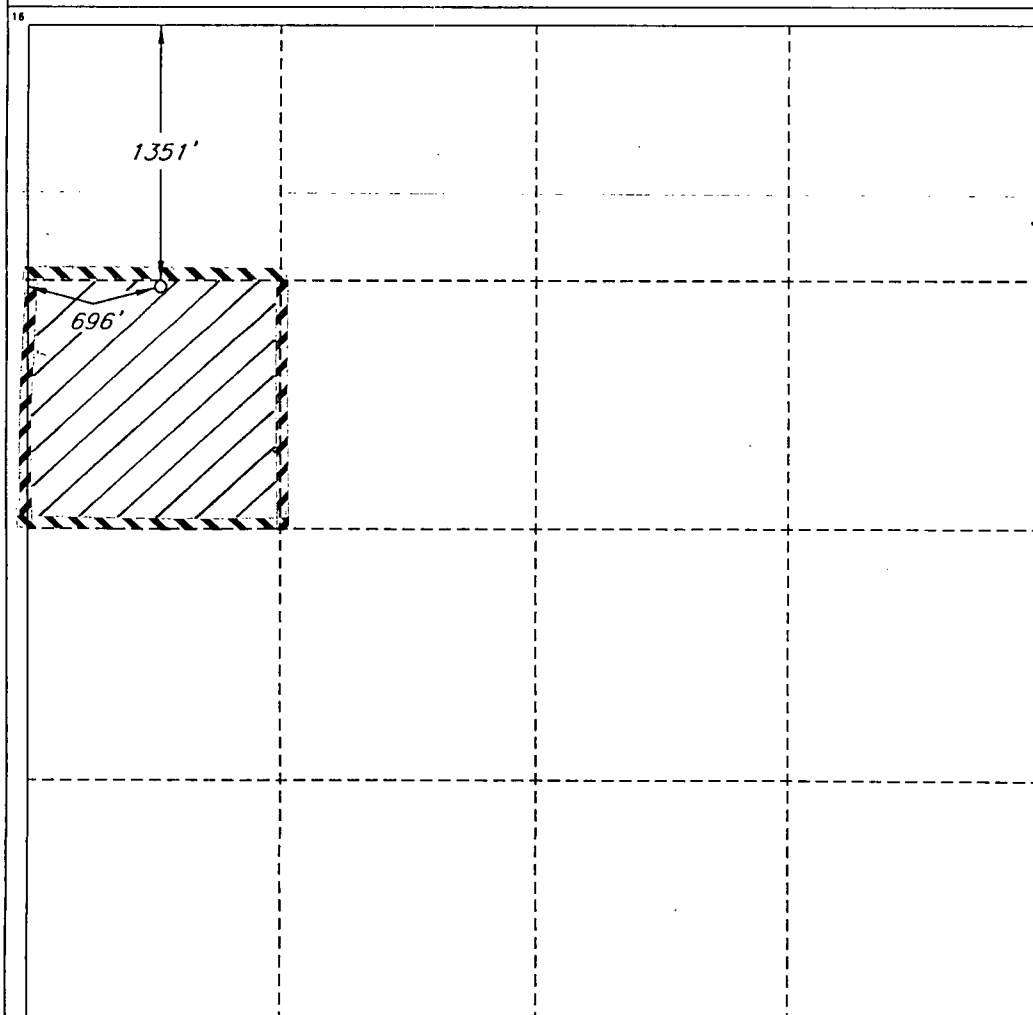
UL or lot no.	Section	Township	Range	Lot Ida	Feet from the	North/South line	Feet from the	East/West line	County
E	33	16 SOUTH	36 EAST, N.M.P.M.		1351'	NORTH	696'	WEST	LEA

**" BOTTOM HOLE LOCATION IF DIFFERENT FROM SURFACE**

UL or lot no.	Section	Township	Range	Lot Ida	Feet from the	North/South line	Feet from the	East/West line	County

<sup>12</sup> Dedicated Acres	<sup>13</sup> Joint or Infill	<sup>14</sup> Consolidation Code	<sup>15</sup> Order No.
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NO ALLOWABLE WELL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION



**OPERATOR CERTIFICATION**

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.

Signature

Printed Name

Title

Date

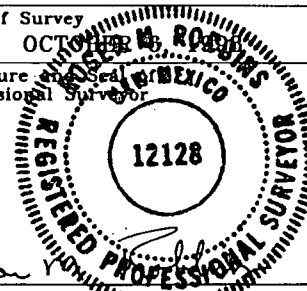
**SURVEYOR CERTIFICATION**

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 supervision, and that the same is true and correct to the best of my belief.

Date of Survey

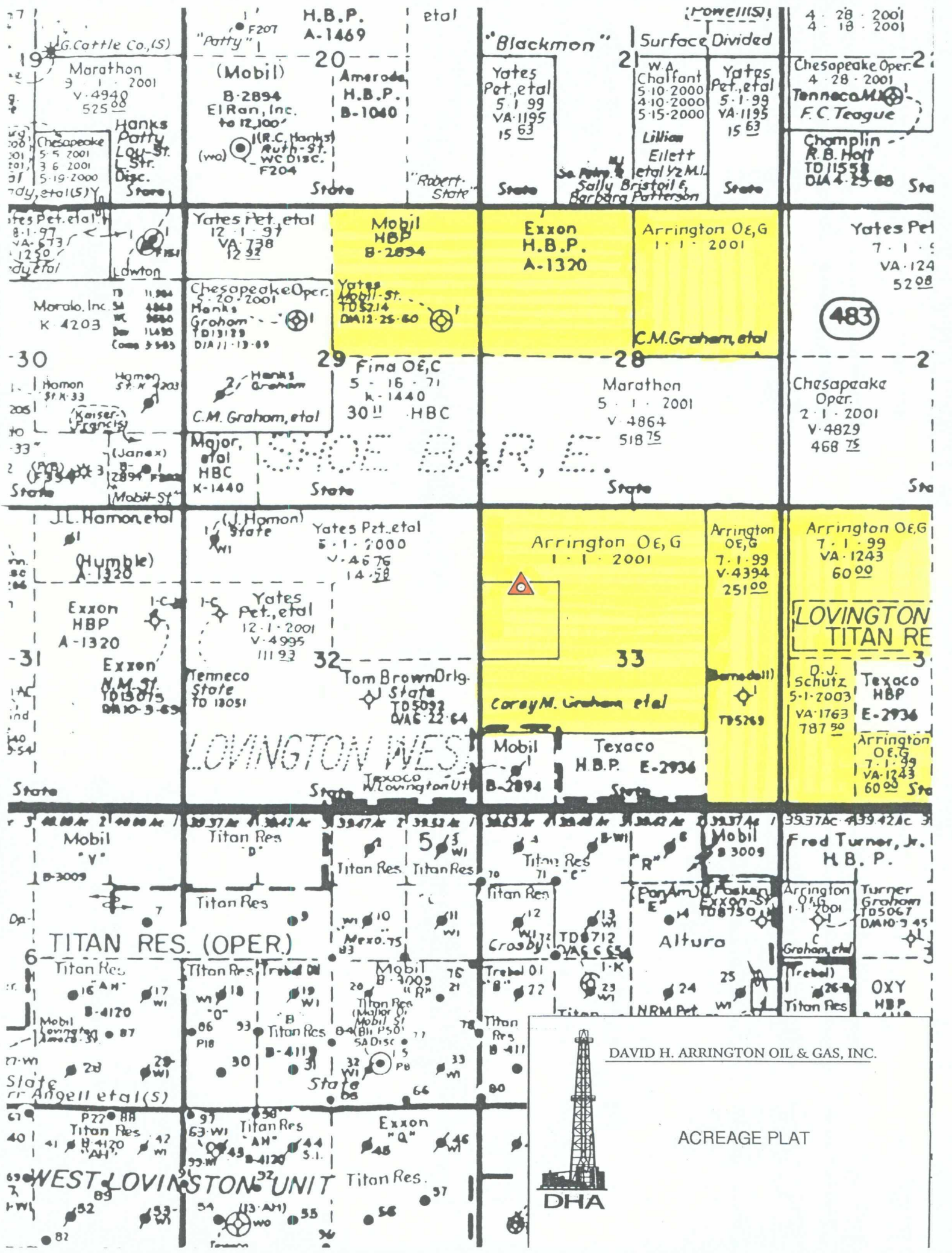
OCTOBER 10, 1998

Signature of Registered Professional Surveyor



Certificate No.

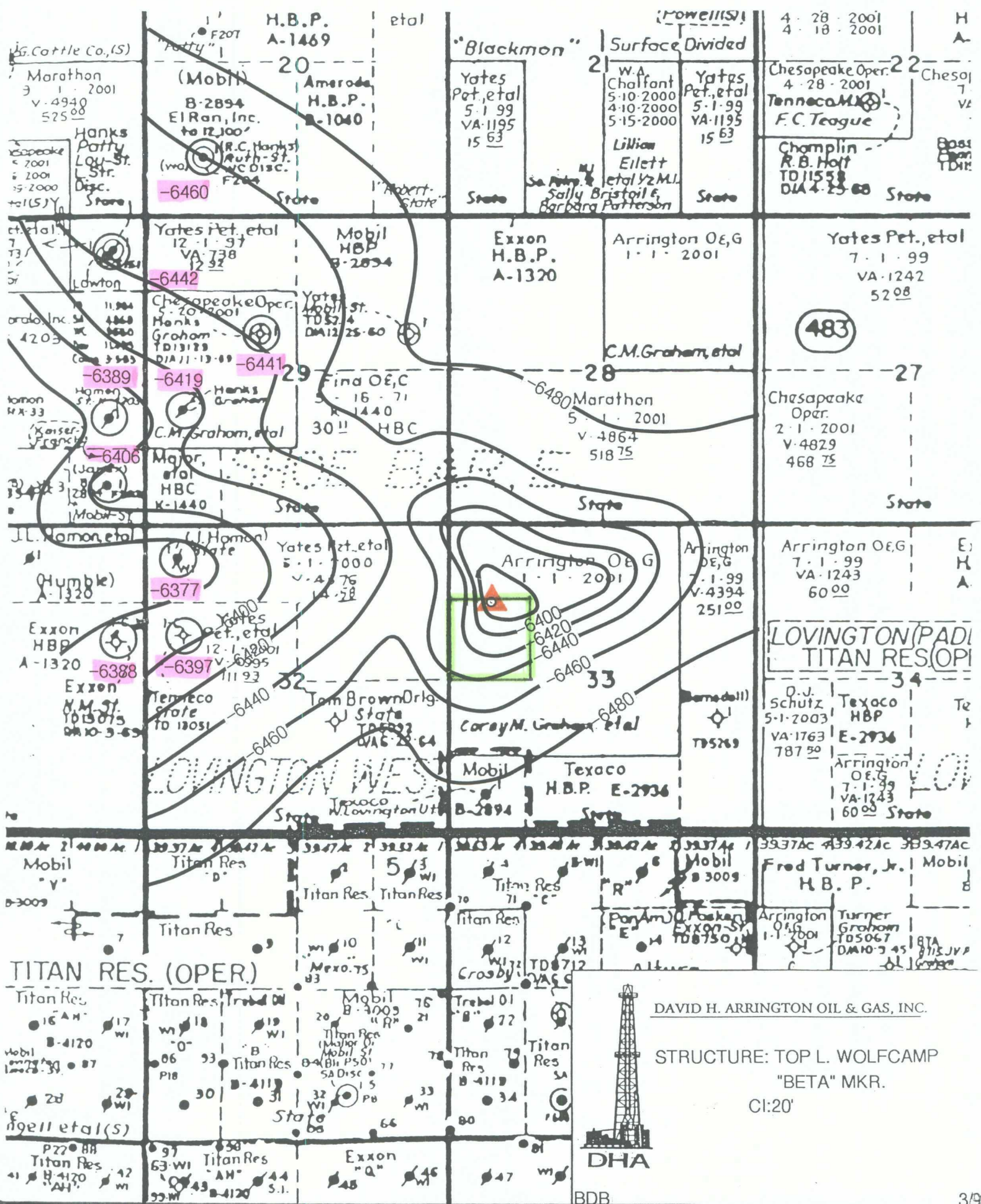
ROGER M. ROBBINS P.S. #12128



## Geological Discussion

The David H. Arrington Oil & Gas, Inc. "Irresistible" #1 is a proposed 11,400' lower Wolfcamp exploratory test in which the subsurface location was determined using 3-D seismic data. This 3-D seismic data indicates the presence of a separate lower Wolfcamp structure located directly east of the East Shoebar field (see structure map - Top of Lower Wolfcamp "Beta" marker). In addition to a strong structural component, it should be noted that the best porosity distribution in the lower Wolfcamp occurs on the crest of these lower Wolfcamp structural features. This map also shows the relationship between our proposed location and the adjacent acreage offsetting our prospect. Using the 3-D seismic X-Y section coordinate grid provided by Dawson Geophysical Surveyors, our geophysicist working this project was instructed to determine the most advantageous structural position in the lower Wolfcamp. This location, being 1351' FNL & 696' FWL of section 33, T16S-R36E, shows that the proposed location is more than 150' from the center of the quarter/quarter section and is unorthodox by 299 feet. Fortunately, this unorthodox location is encroaching upon our own leases and should not offset any adjoining offset spacing units. Using the 3-D seismic data to determine the optimum structural location in the lower Wolfcamp, the current location of 1351' FNL & 696' FWL provides the best location for exploiting the reserves of this lower Wolfcamp structure. Moving the location south to an orthodox location would result in a loss of structure relief and a potential loss of reserves or a dry hole. Granting Arrington's request for an unorthodox location for the David H. Arrington Oil & Gas, Inc. "Irresistible" #1 would allow Arrington to establish production capable of preventing waste and protecting correlative rights.





DAVID H. ARRINGTON OIL & GAS, INC.

STRUCTURE: TOP L. WOLFCAMP  
"BETA" MKR.  
CI:20'



CMD :  
OG5SECT

ONGARD  
INQUIRE LAND BY SECTION

03/19/99 13:20:00  
OGOMES -TPZF  
PAGE NO: 1

Sec : 33 Twp : 16S Rng : 36E Section Type : NORMAL

D 40.00  Fee owned	C 40.00  Fee owned	B 40.00  Fee owned	A 40.00 CS V04394 0001 07/99 DAVID H ARRINGTON
E 40.00  Fee owned	F 40.00  Fee owned	G 40.00  Fee owned	H 40.00 CS V04394 0001 07/99 DAVID H ARRINGTON

PF01 HELP	PF02	PF03 EXIT	PF04 GoTo	PF05	PF06
PF07 BKWD	PF08 FWD	PF09 PRINT	PF10 SDIV	PF11	PF12

*NSL-0/L, NS3*



CMD :  
OG5SECTONGARD  
INQUIRE LAND BY SECTION03/19/99 13:20:10  
OGOMES -TPZK  
PAGE NO: 2

Sec : 33 Twp : 16S Rng : 36E Section Type : NORMAL

L 40.00  Fee owned	K 40.00  Fee owned	J 40.00  Fee owned	I 40.00 CS V04394 0001 07/99 DAVID H ARRINGTON  A
M 40.00 CS B02894 0001 05/44 MOBIL PRODUCING T U	N 40.00 CS E02936 0001 09/59 TEXACO EXPLORATIO	O 40.00 CS E02936 0001 09/59 TEXACO EXPLORATIO	P 40.00 CS V04394 0001 07/99 DAVID H ARRINGTON

PF01 HELP	PF02	PF03 EXIT	PF04 GoTo	PF05	PF06
PF07 BKWD	PF08 FWD	PF09 PRINT	PF10 SDIV	PF11	PF12