



STATE OF NEW MEXICO
ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION
2040 S. PACHECO
SANTA FE, NEW MEXICO 87505
(505) 827-7131

July 9, 1997

Lone Star Oil & Gas, Inc.
P. O. Box 2735
Midland, Texas 79702
Attention: Mark L. Branum

Administrative Order DD-181 (NSBHL)

Dear Mr. Branum:

Reference is made to your application dated June 17, 1997 for approval to recomplete the Marathon Oil Company J. Benson Well No. 1 (API No. 30-025-29787), located on the surface 330 feet from the South line and 330 feet from the East line (Unit P) of Section 14, Township 16 South, Range 38 East, NMPM, in order to further develop the North Knowles-Devonian Pool, Lea County, New Mexico.

The Division Director Finds That:

- (1) The application has been duly filed under the provisions of:
 - (a) Rule 111.D and E of the General Rules and Regulations of the New Mexico Oil Conservation Division ("Division"), revised by Division Order No. R-10388, issued by the Oil Conservation Commission in Case 11,274 on June 13, 1995; and,
 - (b) Rule 104.F of said Division general rules, revised by Division Order No. R-10533, issued by the Oil Conservation Commission in Case 11,351 on January 18, 1996;
- (2) The subject well was drilled by Marathon Oil Company in late 1986 and completed as the discovery well for the North Knowles-Devonian Pool in February, 1987 (see Division Order No. R-8451, issued in Case 9133 and dated June 3, 1987); the 80 acres comprising the S/2 SE/4 of said Section 14 was dedicated to said well to

form a standard 80-acre oil spacing and proration unit for the North Knowles-Devonian Pool; the well ceased producing in January, 1993;

- (3) The North Knowles-Devonian Pool is subject to the "*Special Rules and Regulations for the North Knowles-Devonian Pool* ", as promulgated by Division Order No. R-8497, as amended, which includes provisions for 80-acre oil spacing and proration units with wells to be located within 150 feet of the center of a governmental quarter-quarter section or lot;
- (4) Lone Star proposes to recomplete the subject well by kicking-off from vertical at a depth of approximately 9,500 feet, drill in a north-northeasterly direction, build angle to approximately 15 degrees, and continue drilling in such a manner as to bottom back into the Devonian formation at a subsurface location considered to be unorthodox that is within a target area 100 feet in radius of a point that is 1100 feet from the South line and 770 feet from the East line (Unit P) of said Section 14, with total horizontal displacement of said wellbore to be approximately 800 feet; and,
- (5) It appearing the applicant has satisfied all of the appropriate requirements prescribed in said Rule 111.D and E, 104.F(2), and Rule 5 of said Order No. R-8451, as amended, the subject application should be approved and the well should be governed by the provisions contained within this order and all other applicable provisions of Division General Rule 111.

IT IS THEREFORE ORDERED THAT:

(1) The applicant, Lone Star Oil & Gas, Inc., is hereby authorized to recomplete the Marathon Oil Company J. Benson Well No. 1 (API No. 30-025-29787), located on the surface 330 feet from the South line and 330 feet from the East line (Unit P) of Section 14, Township 16 South, Range 38 East, NMPM, Lea County, New Mexico, by kicking-off from vertical at a depth of approximately 9,500 feet, drill in a north-northeasterly direction, build angle to approximately 15 degrees, and continue drilling in such a manner as to bottom back into the Devonian formation at a subsurface location considered to be unorthodox that is within a target area 100 feet in radius of a point that is 1100 feet from the South line and 770 feet from the East line (Unit P) of said Section 14, with total horizontal displacement of said wellbore to be approximately 800 feet.

PROVIDED HOWEVER THAT prior to commencing directional drilling operations in said wellbore, the applicant shall establish the location of the kick-off point by means of a directional survey acceptable to the Division.

PROVIDED FURTHER THAT during or upon completion of directional drilling operations, the applicant shall conduct an accurate wellbore survey from the kick-off point to total depth in order that the subsurface bottomhole location, as well as the wellbore's true depth and course, may be determined.

(2) The applicant shall notify the supervisor of the Hobbs district office of the Division of the date and time said wellbore surveys are to be conducted so that they may be witnessed. The applicant shall further provide a copy of said wellbore surveys to the Santa Fe and Hobbs offices of the Division upon completion.

(3) The S/2 SE/4 of said Section 14 shall be dedicated to said well to form a standard 80-acre oil spacing and proration unit for the North Knowles-Devonian Pool.

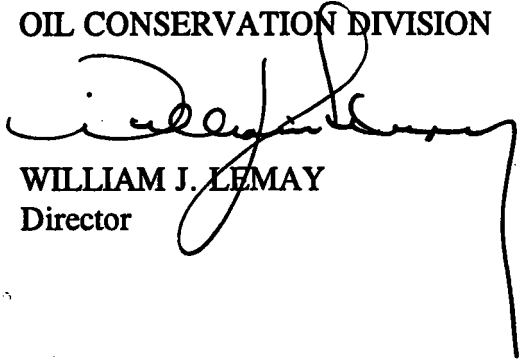
(4) The operator shall comply with all requirements and conditions set forth in Division General Rule 111.E(2) and any applicable requirements in 111.D and F and Division Order No. R-8451, as amended.

(5) Form C-105 shall be filed in accordance with Division Rule 1105 and the operator shall indicate thereon true vertical depth in addition to measured depths.

(6) Jurisdiction of this cause is retained for the entry of such further orders as the Division may deem necessary.

DONE at Santa Fe, New Mexico, on the day and year hereinabove designated.

STATE OF NEW MEXICO
OIL CONSERVATION DIVISION


WILLIAM J. LEMAY
Director

WJL/MES/kv

cc: Oil Conservation Division - Hobbs

DD-014.80

Rec: 6-18-97

Susp: 7-8-97

Released: 7-9-97

July 9, 1997

Lone Star Oil & Gas, Inc.
Attention: Mark L. Branum
P. O. Box 2735
Midland, Texas 79702

181
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for the North Knowles-Devonian Pool; the well ceased producing in January, 1993;

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- (5) It appearing the applicant has satisfied all of the appropriate requirements prescribed in said Rule 111.D and E, 104.F(2), and Rule 5 of said Order No. R-8451, as amended, the subject application should be approved and the well should be governed by the provisions contained within this order and all other applicable provisions of Division General Rule 111.

IT IS THEREFORE ORDERED THAT:

(1) The applicant, Lone Star Oil & Gas, Inc., is hereby authorized to recomplete the Marathon Oil Company J. Benson Well No. 1 (API No. 30-025-29787), located on the surface 330 feet from the South line and 330 feet from the East line (Unit P) of Section 14, Township 16 South, Range 38 East, NMPM, Lea County, New Mexico, by kicking-off from vertical at a depth of approximately 9,500 feet, drill in a north-northeasterly direction, build angle to approximately 15 degrees, and continue drilling in such a manner as to bottom back into the Devonian formation at a subsurface location considered to be unorthodox that is within a target area 100 feet in radius of a point that is 1100 feet from the South line and 770 feet from the East line (Unit P) of said Section 14, with total horizontal displacement of said wellbore to be approximately 800 feet.

PROVIDED HOWEVER THAT prior to commencing directional drilling operations in said wellbore, the applicant shall establish the location of the kick-off point by means of a directional survey acceptable to the Division.

PROVIDED FURTHER THAT during or upon completion of directional drilling operations, the applicant shall conduct an accurate wellbore survey from the kick-off point to total depth in order that the subsurface bottomhole location, as well as the wellbore's true depth

and course, may be determined.

(2) The applicant shall notify the supervisor of the Hobbs district office of the Division of the date and time said wellbore surveys are to be conducted so that they may be witnessed. The applicant shall further provide a copy of said wellbore surveys to the Santa Fe and Hobbs offices of the Division upon completion.

(3) The S/2 SE/4 of said Section 14 shall be dedicated to said well to form a standard 80-acre oil spacing and proration unit for the North Knowles-Devonian Pool.

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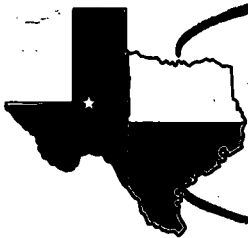
DONE at Santa Fe, New Mexico, on the day and year hereinabove designated.

STATE OF NEW MEXICO
OIL CONSERVATION DIVISION

WILLIAM J. LEMAY
Director

WJL/MES/kv

cc: Oil Conservation Division - Hobbs



Lone Star Oil & Gas

A Texas Corporation

DD

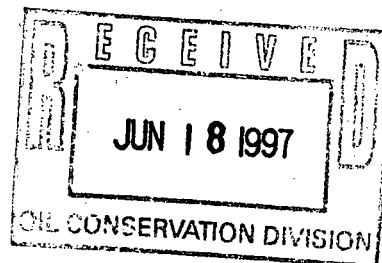
7/8/97

Tel 915/686-9390

Fax 915/684-3710

P. O. Box 2735 • Midland, Texas 79702

17 June 1997



Oil Conservation Division
2040 S. Pacheco
Santa Fe, New Mexico 87505
Attn: Michael E. Stogner

Re: Rule 111 Application
Section 14-16S-38E
Lea County, New Mexico

Gentlemen:

Lone Star Oil & Gas, Inc. hereby respectfully requests approval to drill a directional well in Section 14-16S-38E of Lea County, New Mexico on or before 15 July 1997. As our bottom hole location may be deemed as being non-standard, Lone Star Oil & Gas, Inc. respectfully requests likewise approval by the Commission in this regard.

Lone Star Oil & Gas, Inc. is making this request because a wellbore previously drilled by Marathon Oil Company, the J. Benson #1 depicted on the enclosed plat, may be re-entered and sidetracked to attempt to extend the North Knowles-Devonian oil pool. All of the surface and intermediate casing was left in the Benson #1 well, enabling us to make use of the first 5000' of the wellbore at a substantial cost savings.

Enclosed please find the required plat, a vertically oriented plan view and horizontal plan view, type log section, and evidence of notification of offset operators.

Very truly yours,

LONE STAR OIL & GAS, INC.

Mark L. Branum

MB/mac
enclosure



SEC 14 16S-38E

14-16-38

P 14-16-38
Marathon Oil Company
Benson #1

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COMPANY MARATHON OIL COMPANY																																																	
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<div style="display: flex; justify-content: space-between;"> <div> FORMATION DESIGN Log Measured From Logging Measured From </div> <div> G.L. R.S. R.S. </div> <div> Spg. 288.0 F 28.4 F above Perm. Return </div> </div>	<div style="border: 1px solid black; padding: 5px;"> 29 G.L. 5728.4 F R.F. 5728.4 F G.L. 5888.0 F </div>																																																
<div style="display: flex;"> <div style="width: 60%;"> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td>Time</td><td>24-JAN-57</td></tr> <tr><td>Run No.</td><td>1</td></tr> <tr><td>Depth - Giller</td><td>5240.0 F</td></tr> <tr><td>Depth - Logger (GILL)</td><td>5243.0 F</td></tr> <tr><td>Start Log Interval</td><td>5240.0 F</td></tr> <tr><td>Top Log Interval</td><td>5250.0 F</td></tr> <tr><td>Counting - Giller</td><td>5240.0 F</td></tr> <tr><td>Counting - Logger</td><td>5240.0 F</td></tr> <tr><td>Bit Size</td><td>8 5/8"</td></tr> <tr><td>Fluid Filled to Hole</td><td>SALT OIL</td></tr> <tr><td>Temp.</td><td>0.30 LB/D</td></tr> <tr><td>psi</td><td>PSI LOGS</td></tr> <tr><td>Source of Sample</td><td>WT</td></tr> <tr><td>Run @ Meas. Temp.</td><td>1070 C/GM ● 50.0 DEG</td></tr> <tr><td>Run @ Meas. Temp.</td><td>250 C ● 50.0 DEG</td></tr> <tr><td>Run @ Meas. Temp.</td><td>1500 C/GM ● 50.0 DEG</td></tr> <tr><td>Geometric Grad (Runs)</td><td>NEAR CALC.</td></tr> <tr><td>Run @ GHT</td><td>254 C/GM ● 52.0 DEG</td></tr> <tr><td>Classification System</td><td>0700 V24</td></tr> <tr><td>Logger on Bottom</td><td>1400 V24</td></tr> <tr><td>Max. Rec. Temp.</td><td>72.0 DEG</td></tr> <tr><td>Equip.</td><td>Location 101 MIDLAND</td></tr> <tr><td>Recorded By</td><td>HAEROTT</td></tr> <tr><td>Witnessed By</td><td>T. ENGLER</td></tr> </table> </div> <div style="width: 40%; font-size: 2em; font-weight: bold; text-align: center; padding-top: 20px;"> TIGHT HOLE </div> </div>		Time	24-JAN-57	Run No.	1	Depth - Giller	5240.0 F	Depth - Logger (GILL)	5243.0 F	Start Log Interval	5240.0 F	Top Log Interval	5250.0 F	Counting - Giller	5240.0 F	Counting - Logger	5240.0 F	Bit Size	8 5/8"	Fluid Filled to Hole	SALT OIL	Temp.	0.30 LB/D	psi	PSI LOGS	Source of Sample	WT	Run @ Meas. Temp.	1070 C/GM ● 50.0 DEG	Run @ Meas. Temp.	250 C ● 50.0 DEG	Run @ Meas. Temp.	1500 C/GM ● 50.0 DEG	Geometric Grad (Runs)	NEAR CALC.	Run @ GHT	254 C/GM ● 52.0 DEG	Classification System	0700 V24	Logger on Bottom	1400 V24	Max. Rec. Temp.	72.0 DEG	Equip.	Location 101 MIDLAND	Recorded By	HAEROTT	Witnessed By	T. ENGLER
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REPRODUCED BY
Petroleum Information

MIDLAND, TEXAS 79701

REFERENCE Y 9183G



29 COMPLETION RECORD

SPUD DATE

COMP DATE

DST RECORD

API NO. 30-025-29787

~~CATHINE SURFACE LIBRARY (R)~~
B. C. BOWEN

P. O. BOX 2538

MIDLAND TEXAS 79702

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REMARKS



REPRODUCTION FOR RESALE IN WHOLE OR PART PROHIBITED

All interpretations are opinions based on information from client(s) and/or other measurements and we cannot, and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross negligence, be held liable or responsible for any loss, costs, damages or expenses incurred or sustained by any individual(s) or organization(s) as a result of any interpretation made by any of our officers, agents or employees. These interpretations are also subject to Clause 4 of our General Terms and Conditions and to our current Price Schedule.

COMPANY MARATHON OIL COMPANY
 WELL J. BENSON #1
 FIELD WILDCAT
 COUNTY LEA STATE NEW MEXICO

SOL. FR 0000.0 F
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COMPENSATED NEUTRON-LITHO DENSITY

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Lone Star Oil & Gas

A Texas Corporation

Tel 915/686-9390
Fax 915/684-3710

P. O. Box 2735 • Midland, Texas 79702

17 June 1997

Partner

Christensen Petroleum, Inc.
P.O. Box 3790
Midland, Texas 79702

CERTIFIED MAIL - RETURN RECEIPT REQUESTED

Re: Rule 111 Application
Section 14-16S-38E
Lea County, New Mexico

Gentlemen:

Notice is hereby given of our intent to reenter the J. Benson #1 well located in the captioned section and directionally drill a well to the Devonian formation as shown on the enclosed application.

If you have an objection, it must be filed in writing within twenty (20) days of the above date.

Very truly yours,

LONE STAR OIL & GAS, INC.

Mark L. Branum

MB/mac
enclosure



Lone Star Oil & Gas

A Texas Corporation

Tel 915/686-9390
Fax 915/684-3710

P. O. Box 2735 • Midland, Texas 79702

17 June 1997

Marathon Oil Company
125 West Missouri
Midland, Texas 79701

CERTIFIED MAIL-RETURN RECEIPT REQUESTED

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Section 14-16S-38E
Lea County, New Mexico

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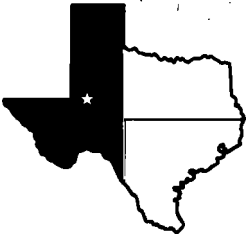
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Mark L. Branum

MB/mac
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Lone Star Oil & Gas

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Tel 915/686-9390

Fax 915/684-3710

P. O. Box 2735 • Midland, Texas 79702

17 June 1997

Oil Conservation Division
2040 S. Pacheco
Santa Fe, New Mexico 87505
Attn: Michael E. Stogner

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Section 14-16S-38E
Lea County, New Mexico

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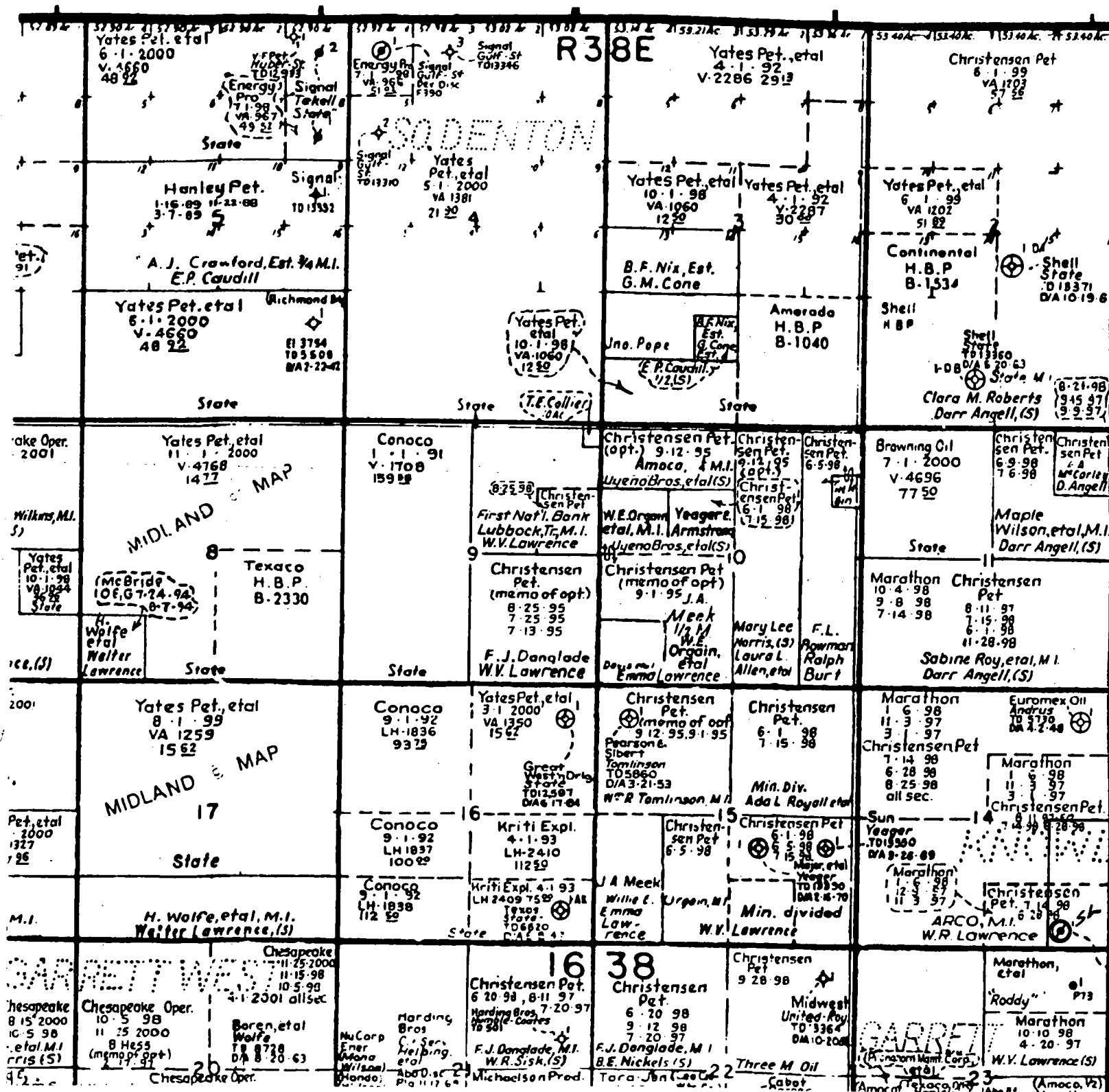
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Very truly yours,

LONE STAR OIL & GAS, INC.

Mark L. Branum

MB/mac
enclosure



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-102
Revised October 18, 1994
Instructions on back
Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

1 APT Number 30-025-29787		2 Pool Code 36330		3 Pool Name North Knowles - Devonian	
4 Property Code		5 Property Name J. Benson			6 Well Number 1
7 OGRID No. 161485		8 Operator Name Lone Star Oil & Gas, Inc.			9 Elevation 3698'

10 Surface Location

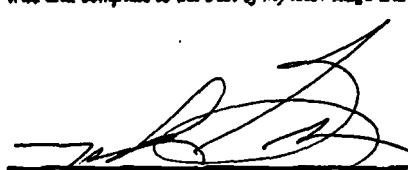
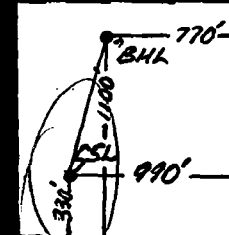
UL or lot no.	Section	Township	Range	Lot Ida	Feet from the	North/South line	Feet from the	East/West line	County
P	14	16-S	38-E		330	South	990	East	Lea

11 Bottom Hole Location If Different From Surface

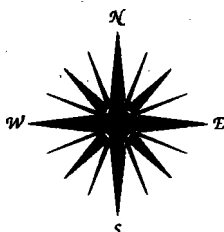
UL or lot no.	Section	Township	Range	Lot Ida	Feet from the	North/South line	Feet from the	East/West line	County
P	14	16-S	38-E		1100	South	770	East	Lea

12 Dedicated Acres	13 Joint or Infill	14 Consolidation Code	15 Order No.
80	N		

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

16				<p>17 OPERATOR CERTIFICATION</p> <p>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief</p> <p></p> <p>Signature _____</p> <p>Printed Name Mark L. Branum</p> <p>Title Vice-President</p> <p>Date 6-17-97</p>
				<p>18 SURVEYOR CERTIFICATION</p> <p>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.</p> <p>Date of Survey _____</p> <p>Signature and Seal of Professional Surveyor: _____</p> <p>Certificate Number _____</p>
				

KOP Br 1.5~/100
MD 9500 .0~



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9700
9900
10100
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12700
12900
13000.0
13100
13300

True Vertical Depth Scale 1 inch : 100 ft

3~
6~
9~
12~
15~

EOB MD 10496 15.0~

HOLD 15.0~

Vertical Section Scale 1 inch : 100 ft

0 200 400 600 800 1000

Latitude Scale 1 inch : 100 ft

800
600
400
200
0

Departure Scale 1 inch : 100 ft

0 200 400

PLANE OF VERT SECTn N15.95W

LONE STAR OIL & GAS BENSON #1 LEA COUNTY, NEW MEXICO

WELL PROPOSAL

MD	TVD	VS	INC	DIR	LAT	DEP
9500.0	9500.0	0.0	0.0	N15 57E	0.0	0.0
10496.8	10485.5	129.3	15.0	N15 57E	124.3	35.5
13099.4	13000.0	800.8	15.0	N15 57E	770.0	220.1

TARGET DETAILS

No	TVD	Lat	Dep
1	13000.0	770.0	220.1

Tgt 1 Rad 100
TD 13000.0 TVD
MD 13099 15.0~

PLOT DATE 06-11-1997

BENSON BENSON #1 6-11-97
Plane of Vertical Section 15.95

Section 1 (Const Dogleg)

MD	Inc	Dir	Tvd	Vsec	Lat	Dep	Values to be applied			
							Build	Turn	Dleg	T Face
9500.0	0.00	15.95	9500.0	0.0	0.0	0.0	1.5	0.0	1.5	0.0
9600.0	1.50	15.95	9600.0	1.3	1.3	0.4	1.5	0.0	1.5	0.0
9800.0	4.50	15.95	9799.7	11.8	11.3	3.2	1.5	0.0	1.5	0.0
10000.0	7.50	15.95	9998.6	32.7	31.4	9.0	1.5	0.0	1.5	0.0
10200.0	10.50	15.95	10196.1	64.0	61.5	17.6	1.5	0.0	1.5	0.0
10400.0	13.50	15.95	10391.7	105.5	101.5	29.0	1.5	0.0	1.5	0.0

Section 2 (Hold Section)

MD	Inc	Dir	Tvd	Vsec	Lat	Dep	Values to be applied			
							Build	Turn	Dleg	T Face
10496.8	14.95	15.95	10485.5	129.3	124.3	35.5	0.0	0.0	0.0	0.0
10600.0	14.95	15.95	10585.2	156.0	149.9	42.9	0.0	0.0	0.0	0.0
10800.0	14.95	15.95	10778.5	207.6	199.6	57.0	0.0	0.0	0.0	0.0
11000.0	14.95	15.95	10971.7	259.2	249.2	71.2	0.0	0.0	0.0	0.0
11200.0	14.95	15.95	11164.9	310.8	298.8	85.4	0.0	0.0	0.0	0.0
11400.0	14.95	15.95	11358.1	362.4	348.4	99.6	0.0	0.0	0.0	0.0
11600.0	14.95	15.95	11551.4	414.0	398.0	113.8	0.0	0.0	0.0	0.0
11800.0	14.95	15.95	11744.6	465.6	447.6	127.9	0.0	0.0	0.0	0.0
12000.0	14.95	15.95	11937.8	517.2	497.3	142.1	0.0	0.0	0.0	0.0
12200.0	14.95	15.95	12131.1	568.8	546.9	156.3	0.0	0.0	0.0	0.0
12400.0	14.95	15.95	12324.3	620.4	596.5	170.5	0.0	0.0	0.0	0.0
12600.0	14.95	15.95	12517.5	672.0	646.1	184.7	0.0	0.0	0.0	0.0
12800.0	14.95	15.95	12710.7	723.6	695.7	198.8	0.0	0.0	0.0	0.0
13000.0	14.95	15.95	12904.0	775.2	745.3	213.0	0.0	0.0	0.0	0.0
13099.4	14.95	15.95	13000.0	800.8	770.0	220.1	0.0	0.0	0.0	0.0

**LEA**

SEC 14 16S-38E

14-16-38

P 14-16-38
Marathon Oil Company
Benson #1

COMPENSATED NEUTRON-LITHO DENSITY			
COMPANY MARATHON OIL COMPANY			
WELL J. BENSON #1			
FIELD WILDCAT			
COUNTY LEA STATE NEW MEXICO			
280 FBL 680 FEE			
API SERIAL NO.	DEPT.	TRIP.	RANGE
14	14	10-S	30-E
Permanent Station G.L. 280 FBL 680 FEE			Other Station G.L. 280 FBL 680 FEE
Log Measured From K.S. 280 F			above Perm. Station G.L. 280 FBL 680 FEE
Drilling Measured From K.S.			G.L. 280 FBL 680 FEE
Date	20-JAN-57		
Run In	1		
Depth Bottom	10440.0 F		
Depth Logger (Shot)	10440.0 F		
Shot Log Interval	10440.0 F		
Top Log Interval	10440.0 F		
Coring-Depth	0 0" 0 0000 F		
Coring-Logger	10440.0 F		
Dr. Size	3 1/4"		
Type Fluid in Hole	SALT OIL		
Grav.	Wt.	8.30 LB/G 8.00 S	
gr	Vol. Loss	0.3 0.0 CB	
Grains of Sample	FT		
Run @ 1000 Yards	1070 Grains	@ 81.0 DEEP	
Run @ 1000 Yards	220 Grains	@ 81.0 DEEP	
Run @ 1000 Yards	1800 Grains	@ 81.0 DEEP	
Grains per Yard	MEAS. CALC.		
Run @ 100 Yards	234 Grains	@ 72. DEEP	
Grains per Yard	700 1/24		
Grains per Yard	1000 1/24		
Min. Run. Temp.	72 DEEP		
Depth	Location	ON MIDLAND	
Recorded by	PAGE-177		
Witnessed by	T. ENGLER		

REPRODUCED BY
Petroleum Information

MIDLAND, TEXAS 79701

REFERENCE Y 9183G



* 393261 *

29 COMPLETION RECORD

SPUD DATE

COMP DATE

DST RECORD

API NO. 30-025-29787

CUTTING SURFACE LIBRARY®

P. O. BOX 2538

MIDLAND, TEXAS 79702

ACID FRAC SHOT

I P

GOR

GR

T P

C P

REMARKS

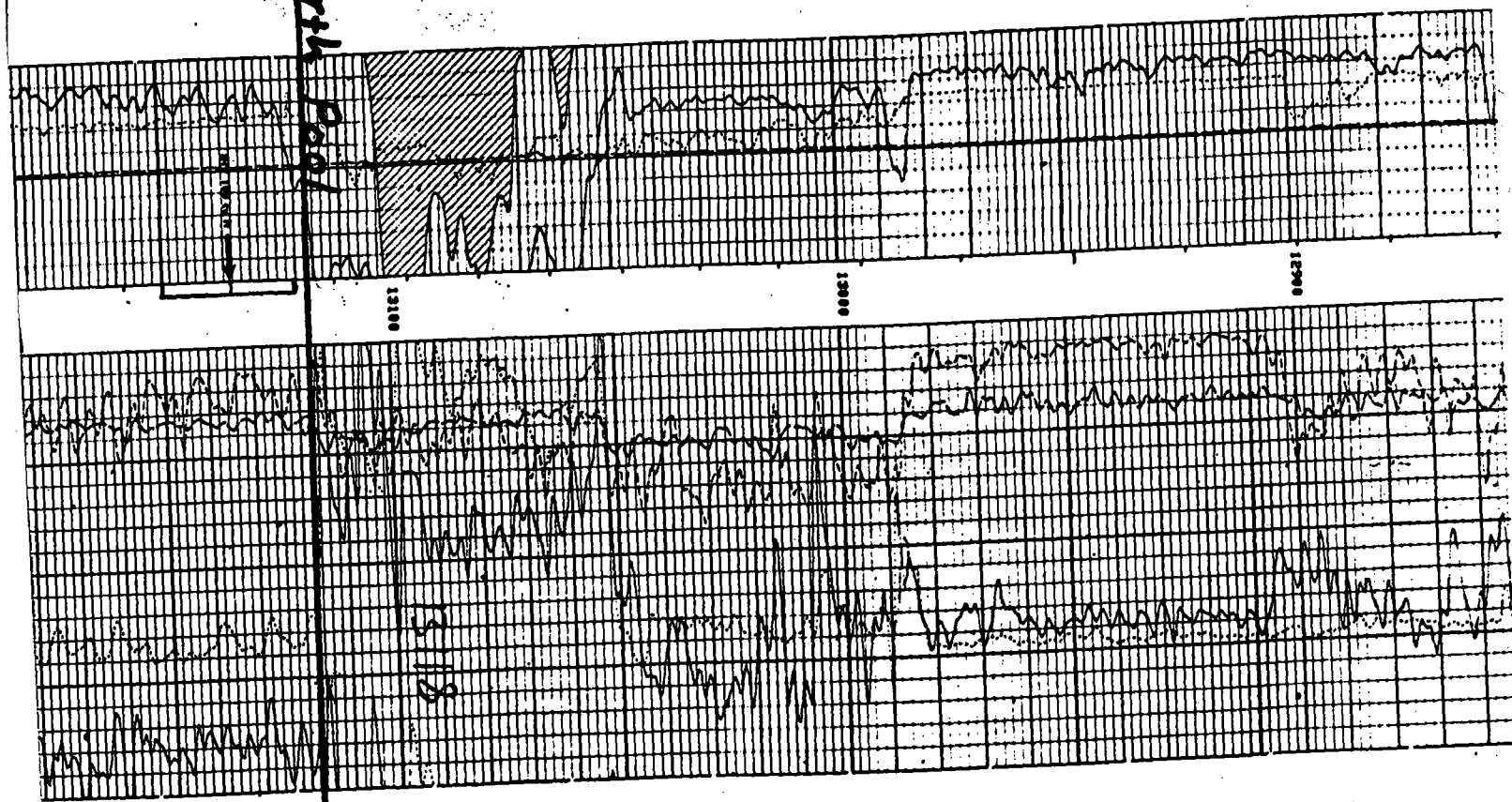


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All interpretations are opinions based on information from identified or other measurements and are subject to change without notice. The user assumes all responsibility for any use, errors, omissions or damages caused or sustained by anyone relying on any interpretation made by any of our officers, agents or employees. These interpretations are also subject to Clause 4 of our General Terms and Conditions on not set in our current Price Schedule.

COMPENSATED NEUTRON-LITHO DENSITY			
COMPANY MARATHON OIL COMPANY			
WELL J. BENSON #1			
FIELD WILDCAT			
COUNTY LEA STATE NEW MEXICO			
280 FBL 680 FEE			
API SERIAL NO.	DEPT.	TRIP.	RANGE
14	14	10-S	30-E
Permanent Station G.L. 280 FBL 680 FEE			Other Station G.L. 280 FBL 680 FEE
Log Measured From K.S. 280 F			above Perm. Station G.L. 280 FBL 680 FEE
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Coring-Depth	0 0" 0 0000 F		
Coring-Logger	10440.0 F		
Dr. Size	3 1/4"		
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Grav.	Wt.	8.30 LB/G 8.00 S	
gr	Vol. Loss	0.3 0.0 CB	
Grains of Sample	FT		
Run @ 1000 Yards	1070 Grains	@ 81.0 DEEP	
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Run @ 1000 Yards	1800 Grains	@ 81.0 DEEP	
Grains per Yard	MEAS. CALC.		
Run @ 100 Yards	234 Grains	@ 72. DEEP	
Grains per Yard	700 1/24		
Grains per Yard	1000 1/24		
Min. Run. Temp.	72 DEEP		
Depth	Location	ON MIDLAND	
Recorded by	PAGE-177		
Witnessed by	T. ENGLER		

TOP Knowles Devonian North Pool





Lone Star Oil & Gas

A Texas Corporation

Tel 915/686-9390

Fax 915/684-3710

P. O. Box 2735 • Midland, Texas 79702

17 June 1997

Marathon Oil Company
125 West Missouri
Midland, Texas 79701

CERTIFIED MAIL-RETURN RECEIPT REQUESTED

Re: Rule 111 Application
Section 14-16S-38E
Lea County, New Mexico

Gentlemen:

Notice is hereby given of our intent to reenter the J. Benson #1 well located in the captioned section and directionally drill a well to the Devonian formation as shown on the enclosed application.

If you have an objection, it must be filed in writing within twenty (20) days of the above date.

Very truly yours,

LONE STAR OIL & GAS, INC.

Mark L. Branum

MB/mac
enclosure



Lone Star Oil & Gas

A Texas Corporation

Tel 915/686-9390

Fax 915/684-3710

P. O. Box 2735 • Midland, Texas 79702

17 June 1997

Christensen Petroleum, Inc.
P.O. Box 3790
Midland, Texas 79702

CERTIFIED MAIL - RETURN RECEIPT REQUESTED

Re: Rule 111 Application
Section 14-16S-38E
Lea County, New Mexico

Gentlemen:

Notice is hereby given of our intent to reenter the J. Benson #1 well located in the captioned section and directionally drill a well to the Devonian formation as shown on the enclosed application.

If you have an objection, it must be filed in writing within twenty (20) days of the above date.

Very truly yours,

LONE STAR OIL & GAS, INC.

Mark L. Branum

MB/mac
enclosure



Lone Star Oil & Gas

A Texas Corporation

Tel 915/686-9390

Fax 915/684-3710

P. O. Box 2735 • Midland, Texas 79702

FAX TRANSMITTAL COVER SHEET

Date: 20 JUNE 1997 No. of Pages: 6
(including cover page)Message To: MICHAEL STOLNERLocation: SANTA FE / OLDFax Machine No: 505 827 1389Message From: MARK BRANUM / L50X6Location: MIDLANDFax Machine No: (915) 684-3710Comments: BENSON REENTRYRIG AVAILABLE 7/25/97. DOESPAPERWORK RE: RULE 111 APP LOOKOK?

District I
PO Box 1980, Hobbs, NM 88241-1980
District II
811 South First, Artesia, NM 88210
District III
1000 Rio Brazos Rd., Artesia, 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

Operator Name and Address: Lone Star Oil & Gas, Inc. P.O. Box 2735 Midland, TX 79702		OGRID Number 161485
		AFT Number 30-025-29787
Property Code	Property Name J. Benson	Well No. 1

Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
P	14	16-S	38-E		330	South	990	East	Lea

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
P	14	16-S	38-E		1100	South	770	East	Lea

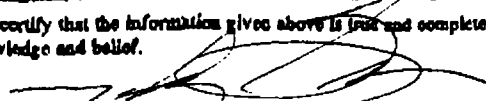
Proposed Pool 1 North Knowles - Devonian	Proposed Pool 2
---	-----------------

Work Type Code E	Well Type Code O	Cable/Rotary Rotary	Lease Type Code P	Ground Level Elevation 3698
Multiple No	Proposed Depth 13,100	Formation Devonian	Contractor N/A	Spud Date ≈ 7/15/97

Proposed Casing and Cement Program

Hole Size	Casing Size	Casing weight/foot	Setting Depth	Bars of Cement	Estimated TOC
17-1/4"	13-3/8"	54.5	319'	430	Surface
12-1/4"	9-5/8"	40.0	5017'	2015	Surface
8-3/4"	5-1/2"	20.0	13100'	See Attached Report	

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.
Lone Star Oil & Gas proposes to reenter the J. Benson #1 well. The 9-5/8" casing from the original completion is intact enabling us to drill out the plugs to the base of the 9-5/8" casing down to an open hole plug @ 6100'±. We will then whipstock at this point and drill a convention hole to 9500'±. At this point we will begin deviating the borehole in a northerly direction to a BHL approximately 800' North of our surface location to a depth of 13,100'± at the top of the Devonian formation.

I hereby certify that the information given above is true and complete to the best of my knowledge and belief. Signature: 		OIL CONSERVATION DIVISION Approved by:	
Printed name: Mark L. Branum		Title:	
Title: Vice-President		Approval Date: Expiration Date:	
Date: 6-17-97		Phone: 915-686-9390	
Conditions of Approval: Attached <input type="checkbox"/>			

Cement Production Casing

Calculations

2ND STAGE LEAD: (5189 ft fill)

$$\begin{aligned} 517 \text{ ft} * 0.2691 \text{ ft}^3/\text{ft} * 10 \% &= 153.02 \text{ ft}^3 \\ 4672 \text{ ft} * 0.2526 \text{ ft}^3/\text{ft} * 50 \% &= 1770.19 \text{ ft}^3 \end{aligned}$$

$$\begin{aligned} \text{TOTAL 2ND STAGE LEAD} &= 1923.21 \text{ ft}^3 \\ &= 342.52 \text{ bbls} \end{aligned}$$

2ND STAGE TAIL: (311 ft fill)

$$311 \text{ ft} * 0.2526 \text{ ft}^3/\text{ft} * 50 \% = 117.84 \text{ ft}^3$$

$$\begin{aligned} \text{TOTAL 2ND STAGE TAIL} &= 117.84 \text{ ft}^3 \\ &= 21.0 \text{ bbls} \end{aligned}$$

1ST STAGE CEMENT: (3100 ft fill)

$$3100 \text{ ft} * 0.2526 \text{ ft}^3/\text{ft} * 50 \% = 1174.57 \text{ ft}^3$$

$$\begin{aligned} \text{TOTAL 1ST STAGE CEMENT} &= 1174.57 \text{ ft}^3 \\ &= 209.19 \text{ bbls} \end{aligned}$$

TOTAL DISPLACEMENT VOLUME: (13100 ft casing)

$$\begin{aligned} 13100 \text{ ft} * 0.0238 \text{ bbl}/\text{ft} &= 311.80 \text{ bbls} \\ &= 311.80 \text{ bbls} \end{aligned}$$

DISPLACEMENT VOLUME TO SHOE JOINT:

$$311.80 \text{ bbls} - 1.00 \text{ bbls} = 310.80 \text{ bbls}$$

Cement Production Casing

Job Recommendation**FIRST STAGE**

Run in hole with 5-1/2 inch casing with a TAM external casing packer and a Halliburton Hydraulic operated Multiple Stage Cementer on top of the packer. Circulate the hole volume 2 to 3 times to remove mud filter cake. Run a bow spring centralizer every 5th joint from TD to 4500 ft or approximately 50 centralizers. Activate the TAM packer then the Multiple Stage Cementer then begin the cement job. Pump the following first stage cement designed to fill from 13,100 ft to 10,000 ft. assuming 50 % excess. (Note: Assuming a mud density of 9.5 lb/gal and a cement weight of 13.0 lb/gal this column of cement will result in a differential pressure across the packer element of 564 psi. The elements are good for 3000 psi according to the TAM International representative.)

FLUID 1: 1ST STAGE CEMENT**Modified Super Premium**

1 lb/sk Salt (3 %) (Accelerator)

0.4% CFR-3 (Dispersant)

0.1% HR®-7 (Retarder)

Mixed With Fresh Water

Fluid Weight:	13.00 lb/gal
Fluid Yield:	1.65 ft ³ /sk
Fluid Water Ratio:	8.70 gal/sk
Total Mixing Fluid:	148.1 bbls
Top of Fluid:	10000 ft
Calculated Fill:	3100 ft
Fluid Volume:	210.19 bbls
Calculated Volume:	711.6 sks
Shoe Joint Volume:	3.40 sks
Total Volume:	715.00 sks
Proposed Volume:	715 sks

Displace with a mix of 2% KCl water from the TD to the Multiple Stage Cementer at 10,000 ft then regular mud from 10,000 ft. to surface. When the plug lands at TD, pressure up and open the second Stage Cementer tool. Circulate for 6 hours to allow the first stage cement time to gel and begin building strength.

Cement Production Casing

Job Recommendation**SECOND STAGE**

Cement the second stage as follows which is designed to fill from 10,000 ft to 4500 ft assuming 50% excess in open hole.

FLUID 1: 2ND STAGE LEAD

Halliburton Lite Premium
5 lb/sk Salt (6 %) (Accelerator)
Mixed With Fresh Water

Fluid Weight:	12.60 lb/gal
Fluid Yield:	1.99 ft ³ /sk
Fluid Water Ratio:	10.85 gal/sk
Total Mixing Fluid:	250.6 bbls
Top of Fluid:	4500 ft
Calculated Fill:	5189 ft
Fluid Volume:	342.52 bbls
Calculated Volume:	966.00 sks
Proposed Volume:	970 sks

FLUID 2: 2ND STAGE TAIL

Premium Cement
Mixed With Fresh Water

Fluid Weight:	15.60 lb/gal
Fluid Yield:	1.18 ft ³ /sk
Fluid Water Ratio:	5.20 gal/sk
Total Mixing Fluid:	12.4 bbls
Top of Fluid:	9689 ft
Calculated Fill:	311 ft
Fluid Volume:	21.0 bbls
Calculated Volume:	100.00 sks
Proposed Volume:	100 sks

District I
PO Box 1980, Hobbs, NM 88241-1980
District II
811 South First, Artesia, NM 88210
District III
1800 Rio Bravo Rd., Amec, 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-10
Revised October 18, 199
Instructions on back
Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

' API Number 30-025-29787	' Pool Code 36330	' Pool Name North Knowles - Devonian
' Property Code	' Property Name J. Benson	' Well Number 1
' OGRID No. 161485	' Operator Name Lone Star Oil & Gas, Inc.	' Elevation 3698'

10 Surface Location

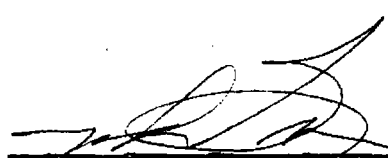
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
P	14	16-S	38-E		330	South	990	East	Lea

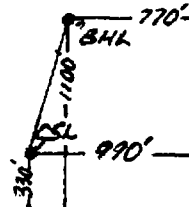
11 Bottom Hole Location If Different From Surface

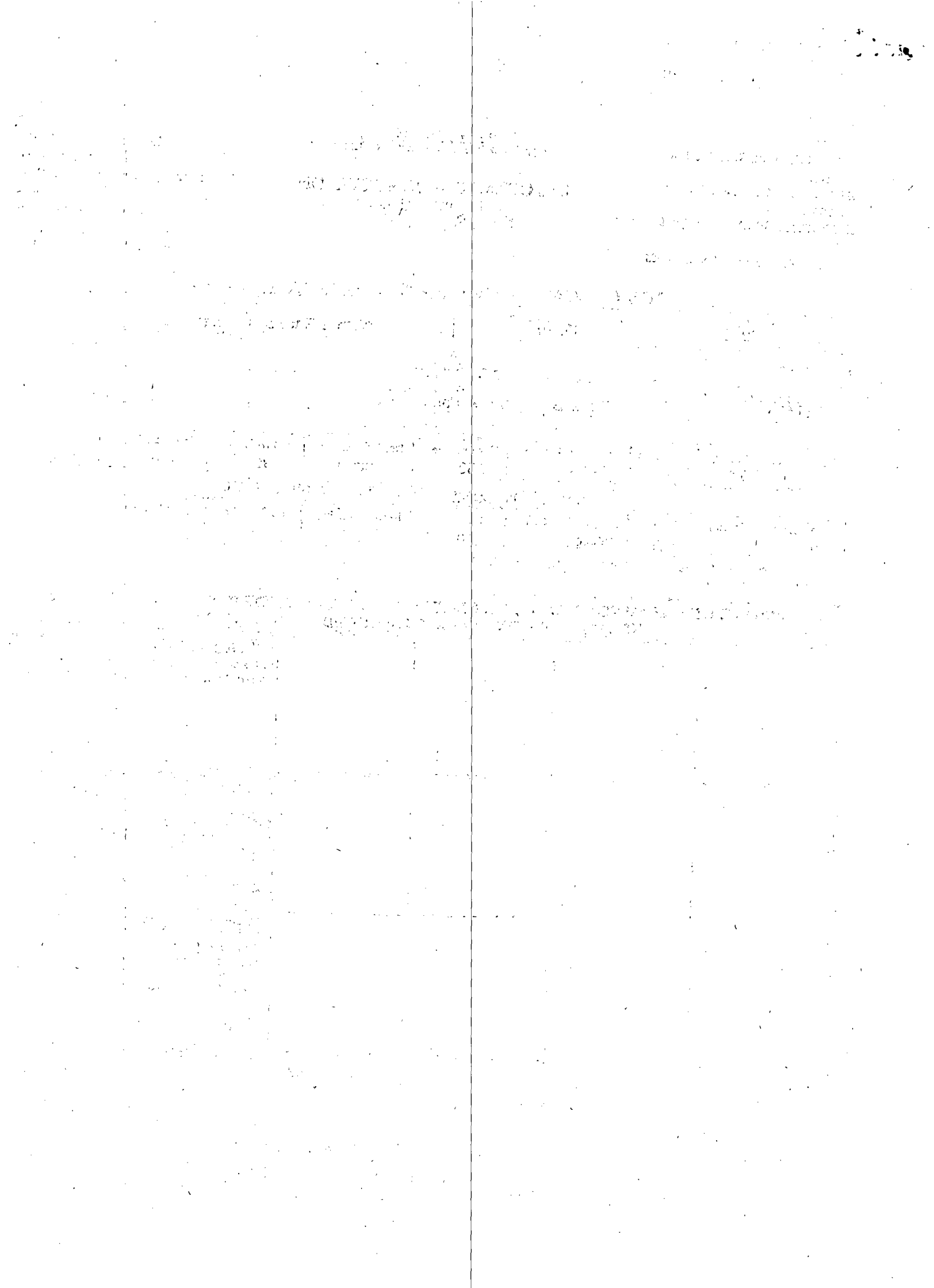
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
P	14	16-S	38-E		1100	South	770	East	Lea

' Dedicated Acres	' Joint or Infill	' Consolidation Code	' Order No.
80	N		

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

16					<p>17 OPERATOR CERTIFICATION</p> <p>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.</p>  <p>Signature Mark L. Branum</p> <p>Printed Name Vice-President</p> <p>Date 6-17-97</p>
					<p>18 SURVEYOR CERTIFICATION</p> <p>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.</p> <p>Date of Survey</p> <p>Signature and Seal of Professional Surveyor</p> <p>Certificate Number</p>





STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION

IN THE MATTER OF THE HEARING
CALLED BY THE OIL CONSERVATION
DIVISION FOR THE PURPOSE OF
CONSIDERING:

CASE NO. 9133
Order No. R-8451

THE APPLICATION OF THE OIL CONSERVATION
DIVISION UPON ITS OWN MOTION FOR AN
ORDER CREATING, CONTRACTING, AND EXTENDING
CERTAIN POOLS IN LEA COUNTY, NEW MEXICO.

ORDER OF THE DIVISION

BY THE DIVISION:

This cause came on for hearing at 8:15 a.m. on May 6 and May 20, 1987, at Santa Fe, New Mexico, before Examiner David R. Catanach.

NOW, on this 3rd day of June, 1987, the Division Director, having considered the testimony, the record, and the recommendations of the Examiner, and having been fully advised in the premises,

FINDS THAT:

(1) Due public notice having been given as required by law, the Division has jurisdiction of this cause and the subject matter thereof.

(2) There is need for the creation of a new pool in Lea County, New Mexico, for the production of oil from the Bone Spring formation, said pool to bear the designation of Gem-Bone Spring Pool. Said Gem-Bone Spring Pool was discovered by the Manzano Oil Corporation Federal 31-G Well No. 1 located in Unit H of Section 31, Township 19 South, Range 33 East, NMPM. It was completed in the Bone Spring formation on January 26, 1987. The top of the perforations is at 10,500 feet.

(3) There is need for the creation of a new pool in Lea County, New Mexico, for the production of oil from the Devonian formation, said pool to bear the designation of North Knowles-Devonian Pool. Said North Knowles-Devonian Pool was discovered by the Marathon Oil Company Benson Well No. 1 located in Unit P of Section 14, Township 16 South, Range 38 East, NMPM. It was completed in the Devonian formation on February 11, 1987. The top of the perforations is at 13,120 feet.

(4) There is need for the contraction of the Vacuum-Abo Reef Pool in Lea County, New Mexico, due to the completion of the BTA Oil Producers Buckeye C 8601 JV-P Well No. 1 located in Unit F of Section 36, Township 17 South, Range 35 East, NMPM, in the Abo formation. The deleted acreage will be included in the South Double A-Abo Pool.

(5) There is need for the dismissal of the proposed extension of the Lusk-Delaware Pool in Lea County, New Mexico, because the well completed in this area is deeper than the depth range for said pool, and a request for a new pool creation will be forthcoming at a later date.

(6) There is need for certain extensions to the South Double A-Abo Pool, the North Air Strip-Bone Spring Pool, the Alston Ranch-Upper Pennsylvanian Pool, the Casey-Strawn Pool, the Lower Double A-Abo Pool, the House Yates-Seven Rivers Gas Pool, the Lazy J-Pennsylvanian Pool, the North Sanmal-Pennsylvanian Pool, the Sanmal-Queen Pool, the Shipp-Strawn Pool, the West Teas Yates-Seven Rivers Pool, and the Vacuum Grayburg-San Andres Pool, all in Lea County, New Mexico.

(7) The effective date of this order and all creations, contractions, and expansions included herein should be June 1, 1987.

IT IS THEREFORE ORDERED THAT:

(a) A new pool in Lea County, New Mexico, classified as an oil pool for Bone Spring production is hereby created and designated as the Gem-Bone Spring Pool, consisting of the following described area:

TOWNSHIP 19 SOUTH, RANGE 33 EAST, NMPM
Section 31: NE/4

(b) A new pool in Lea County, New Mexico, classified as an oil pool for Devonian production is hereby created and designated as the North Knowles-Devonian Pool, consisting of the following described area:

TOWNSHIP 16 SOUTH, RANGE 38 EAST, NMPM
Section 14: SE/4

(c) The Vacuum-Abo Reef Pool in Lea County, New Mexico, as heretofore classified, defined, and described, is hereby contracted by the deletion of the following described area:

TOWNSHIP 17 SOUTH, RANGE 35 EAST, NMPM
Section 36: SE/4 NW/4

(d) The South Double A-Abo Pool in Lea County, New Mexico, as heretofore classified, defined, and described, is hereby extended to include therein:

TOWNSHIP 17 SOUTH, RANGE 35 EAST, NMPM
Section 36: N/2 NW/4 and SE/4 NW/4

(e) The North Air Strip-Bone Spring Pool in Lea County, New Mexico, as heretofore classified, defined, and described, is hereby extended to include therein:

TOWNSHIP 18 SOUTH, RANGE 34 EAST, NMPM
Section 14: SE/4

(f) The Alston Ranch-Upper Pennsylvanian Pool in Lea County, New Mexico, as heretofore classified, defined, and described, is hereby extended to include therein:

TOWNSHIP 13 SOUTH, RANGE 34 EAST, NMPM
Section 25: NW/4 and E/2 SW/4

(g) The Casey-Strawn Pool in Lea County, New Mexico, as heretofore classified, defined, and described, is hereby extended to include therein:

TOWNSHIP 16 SOUTH, RANGE 37 EAST, NMPM
Section 34: SW/4

(h) The Lower Double A-Abo Pool in Lea County, New Mexico, as heretofore classified, defined, and described, is hereby extended to include therein:

TOWNSHIP 17 SOUTH, RANGE 36 EAST, NMPM
Section 16: SE/4

(i) The House Yates-Seven Rivers Gas Pool in Lea County, New Mexico, as heretofore classified, defined, and described, is hereby extended to include therein:

TOWNSHIP 20 SOUTH, RANGE 38 EAST, NMPM
Section 1: NE/4

TOWNSHIP 20 SOUTH, RANGE 39 EAST, NMPM
Section 6: NW/4

(j) The Lazy J-Pennsylvanian Pool in Lea County, New Mexico, as heretofore classified, defined, and described, is hereby extended to include therein:

TOWNSHIP 13 SOUTH, RANGE 33 EAST, NMPM
Section 28: SW/4

(k) The proposed extension to the Lusk-Delaware Pool in Lea County, New Mexico, is hereby dismissed.

(l) The North Sanmal-Pennsylvanian Pool in Lea County, New Mexico, as heretofore classified, defined, and described, is hereby extended to include therein:

TOWNSHIP 16 SOUTH, RANGE 33 EAST, NMPM
Section 7: SE/4
Section 8: SW/4

(m) The Sanmal-Queen Pool in Lea County, New Mexico, as heretofore classified, defined, and described, is hereby extended to include therein:

TOWNSHIP 17 SOUTH, RANGE 33 EAST, NMPM
Section 1: NE/4 and SW/4

(n) The Shipp-Strawn Pool in Lea County, New Mexico, as heretofore classified, defined, and described, is hereby extended to include therein:

TOWNSHIP 17 SOUTH, RANGE 37 EAST, NMPM
Section 3: NE/4

(o) The West Teas Yates-Seven Rivers Pool in Lea County, New Mexico, as heretofore classified, defined, and described, is hereby extended to include therein:

TOWNSHIP 20 SOUTH, RANGE 33 EAST, NMPM
Section 9: N/2 SW/4

(p) The Vacuum Grayburg-San Andres Pool in Lea County, New Mexico, as heretofore classified, defined, and described, is hereby extended to include therein:

TOWNSHIP 17 SOUTH, RANGE 33 EAST, NMPM
Section 35: NE/4

IT IS FURTHER ORDERED THAT:

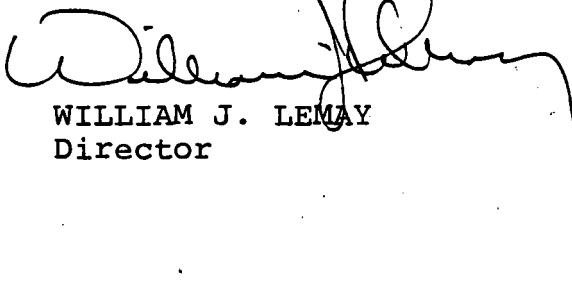
(1) Pursuant to Section 70-2-18, NMSA 1978, contained in Chapter 271, Laws of 1969, any well which, by virtue of any of the above pool extensions, is subject to pool rules providing for spacing or proration units larger than the one which is presently dedicated thereto, shall have 60 days from the effective date of this order in which to file new Forms C-102 dedicating a standard unit for the pool to said well, or to obtain a non-standard unit approved by the Division. Pending such compliance, the well shall receive a maximum allowable in the same proportion to a standard allowable for the pool that the acreage dedicated to the well bears to a standard unit

for the pool. Failure to file Form C-102 dedicating a standard unit to the well or to obtain a non-standard unit approved by the Division shall subject the well to cancellation of allowable.

(2) The effective date of this order and all creations, contractions, and extensions included herein shall be June 1, 1987.

DONE at Santa Fe, New Mexico, on the day and year hereinabove designated.

STATE OF NEW MEXICO
OIL CONSERVATION DIVISION



WILLIAM J. LEMAY
Director

S E A L

fd/

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-102
Revised October 18, 1994
Instructions on back
Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

1 APT Number 30-025-29787		2 Pool Code 36330		3 Pool Name North Knowles - Devonian	
4 Property Code		5 Property Name J. Benson			6 Well Number 1
7 OGRID No. 161485		8 Operator Name Lone Star Oil & Gas, Inc.			9 Elevation 3698'

10 Surface Location

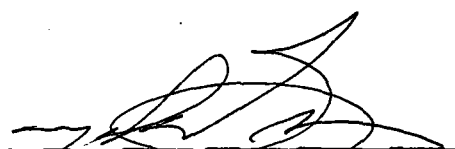
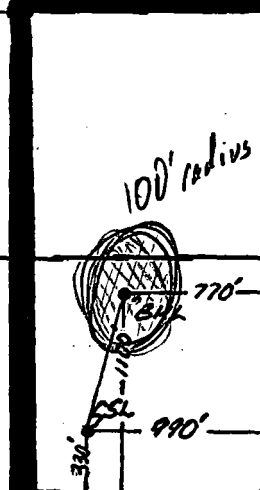
UL or lot no.	Section	Township	Range	Lot Ida	Feet from the	North/South line	Feet from the	East/West line	County
P	14	16-S	38-E		330	South	990	East	Lea

11 Bottom Hole Location If Different From Surface

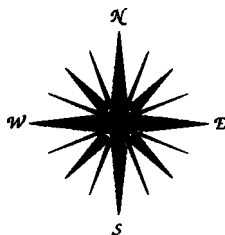
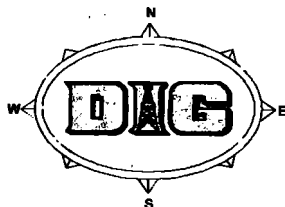
UL or lot no.	Section	Township	Range	Lot Ida	Feet from the	North/South line	Feet from the	East/West line	County
P	14	16-S	38-E		1100	South	770	East	Lea

12 Dedicated Acres	13 Joint or Infill	14 Consolidation Code	15 Order No.
80	N		

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

16				<p>17 OPERATOR CERTIFICATION</p> <p>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief</p> <p></p> <p>Signature _____</p> <p>Printed Name Mark L. Branum</p> <p>Title Vice-President</p> <p>Date 6-17-97</p>
				<p>18 SURVEYOR CERTIFICATION</p> <p>I hereby certify that the well location shown on this plat was placed 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.</p> <p>Date of Survey _____</p> <p>Signature and Seal of Professional Surveyor: _____</p> <p>Certificate Number _____</p>
				

KOP Br 1.5~/100
MD 9500 .0~



9500
9700 3~
9900 6~
10100 9~
10300 12~

10485.5 15~ EOB MD 10496 15.0~
10500 124.3

10700
10900
11100
11300
11500
11700
11900
12100
12300
12500
12700
12900
13000.0
13100
13300

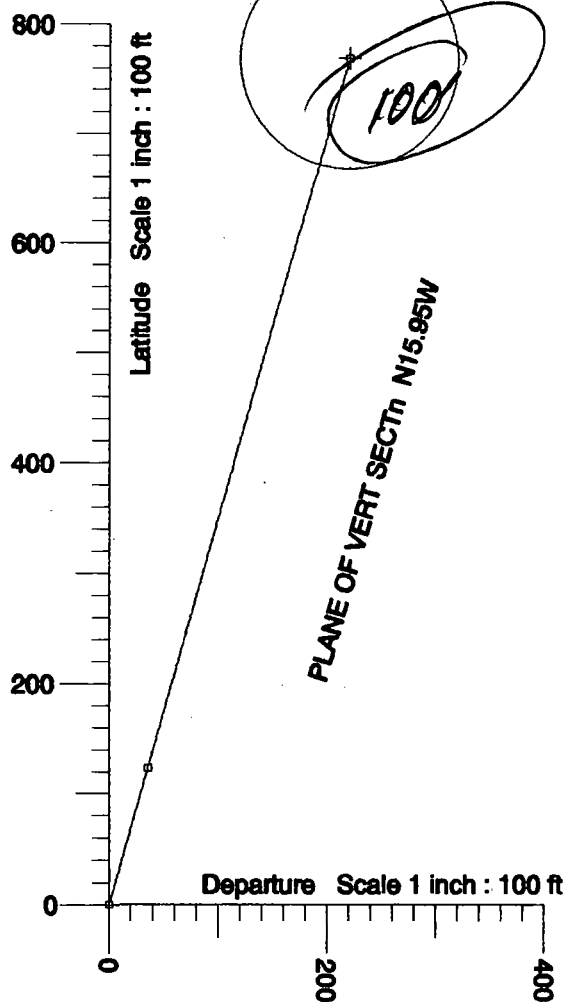
True Vertical Depth Scale 1 inch : 100 ft

HOLD 15.0~

770.0

Tgt 1 Rad 100
TD 13000.0 TVD
MD 13099 15.0~

Vertical Section Scale 1 inch : 100 ft



LONE STAR OIL & GAS BENSON #1 LEA COUNTY, NEW MEXICO

WELL PROPOSAL						
MD	TVD	VS	INC	DIR	LAT	DEP
9500.0	9500.0	0.0	0.0	N15 57E	0.0	0.0
10496.8	10485.5	129.3	15.0	N15 57E	124.3	35.5
13099.4	13000.0	800.8	15.0	N15 57E	770.0	220.1

TARGET DETAILS			
No	TVD	Lat	Dep
1	13000.0	770.0	220.1

PLOT DATE 06-11-1997

BENSON BENSON #1 6-11-97
Plane of Vertical Section 15.95

Section 1 (Const Dogleg)

MD	Inc	Dir	Tvd	Vsec	Lat	Dep	Values to be applied			
							Build	Turn	Dleg	T Face
9500.0	0.00	15.95	9500.0	0.0	0.0	0.0	1.5	0.0	1.5	0.0
9600.0	1.50	15.95	9600.0	1.3	1.3	0.4	1.5	0.0	1.5	0.0
9800.0	4.50	15.95	9799.7	11.8	11.3	3.2	1.5	0.0	1.5	0.0
10000.0	7.50	15.95	9998.6	32.7	31.4	9.0	1.5	0.0	1.5	0.0
10200.0	10.50	15.95	10196.1	64.0	61.5	17.6	1.5	0.0	1.5	0.0
10400.0	13.50	15.95	10391.7	105.5	101.5	29.0	1.5	0.0	1.5	0.0

Section 2 (Hold Section)

MD	Inc	Dir	Tvd	Vsec	Lat	Dep	Values to be applied			
							Build	Turn	Dleg	T Face
10496.8	14.95	15.95	10485.5	129.3	124.3	35.5	0.0	0.0	0.0	0.0
10600.0	14.95	15.95	10585.2	156.0	149.9	42.9	0.0	0.0	0.0	0.0
10800.0	14.95	15.95	10778.5	207.6	199.6	57.0	0.0	0.0	0.0	0.0
11000.0	14.95	15.95	10971.7	259.2	249.2	71.2	0.0	0.0	0.0	0.0
11200.0	14.95	15.95	11164.9	310.8	298.8	85.4	0.0	0.0	0.0	0.0
11400.0	14.95	15.95	11358.1	362.4	348.4	99.6	0.0	0.0	0.0	0.0
11600.0	14.95	15.95	11551.4	414.0	398.0	113.8	0.0	0.0	0.0	0.0
11800.0	14.95	15.95	11744.6	465.6	447.6	127.9	0.0	0.0	0.0	0.0
12000.0	14.95	15.95	11937.8	517.2	497.3	142.1	0.0	0.0	0.0	0.0
12200.0	14.95	15.95	12131.1	568.8	546.9	156.3	0.0	0.0	0.0	0.0
12400.0	14.95	15.95	12324.3	620.4	596.5	170.5	0.0	0.0	0.0	0.0
12600.0	14.95	15.95	12517.5	672.0	646.1	184.7	0.0	0.0	0.0	0.0
12800.0	14.95	15.95	12710.7	723.6	695.7	198.8	0.0	0.0	0.0	0.0
13000.0	14.95	15.95	12904.0	775.2	745.3	213.0	0.0	0.0	0.0	0.0
13099.4	14.95	15.95	13000.0	800.8	770.0	220.1	0.0	0.0	0.0	0.0