

COUNTY

Lea

POOL

North Knowles-Devonian

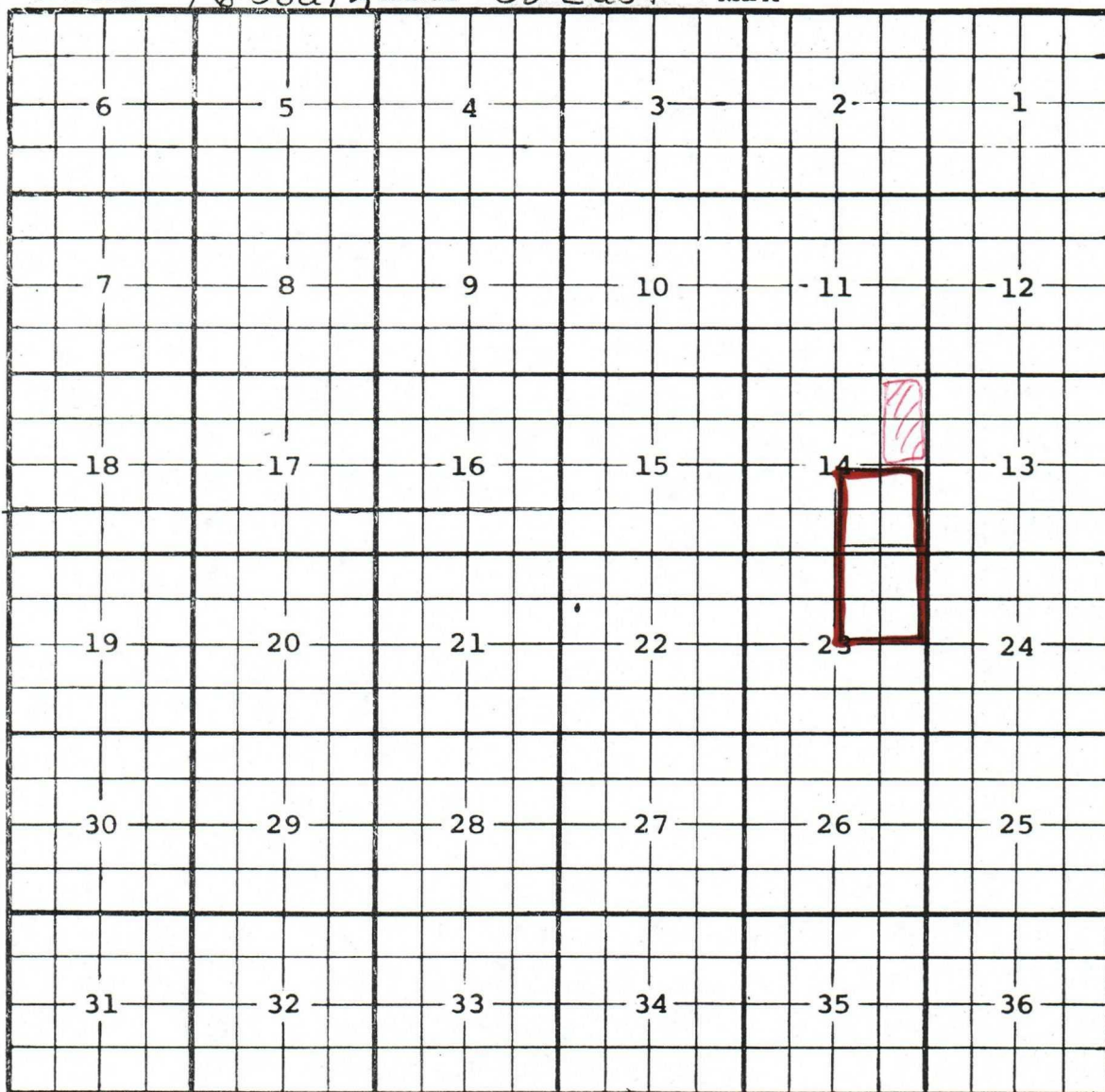
TOWNSHIP

16 South

RANGE

38 East

NMPM



Description: ^{SE}/₄ Sec. 14 (R-8451, 6-3-87) EXT. ^{NE}/₄ SEC 23 (R-8561 12/4/87)

STATE OF NEW MEXICO
ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT
OIL CONSERVATION DIVISION

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

CASE NO. 9145
Order No. R-8497

APPLICATION OF MARATHON OIL
COMPANY FOR POOL CREATION,
SPECIAL POOL RULES AND DISCOVERY
ALLOWABLE, LEA COUNTY, NEW
MEXICO.

See Also R-8497-A

ORDER OF THE DIVISION

36530

BY THE DIVISION:

This cause came on for hearing at 8:15 a.m. on June 3, 1987, at Santa Fe, New Mexico, before Examiner David R. Catanach.

NOW, on this 28th day of August, 1987, the Division Director, having considered the testimony, the record, and the recommendations of the Examiner, and being 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) Division Case Nos. 9145 and 9146 were consolidated at the time of the hearing for the purpose of testimony.

(3) The applicant, Marathon Oil Company (Marathon), seeks the creation of a new pool for the production of oil from the Siluro-Devonian formation consisting of the S/2 SE/4 of Section 14, Township 16 South, Range 38 East, NMPM, Lea County, New Mexico, and further seeks the promulgation of temporary special rules and regulations for said pool including a provision for 80-acre spacing and proration units and designated well locations.

(4) The applicant further seeks the assignment of an oil discovery allowable pursuant to Division General Rule 509 to its Benson Well No. 1 located 330 feet from the South line and 990 feet from the East line (Unit P) of Section 14,

Township 16 South, Range 38 East, NMPM, Lea County, New Mexico.

(5) By Order No. R-8451 entered in Case No. 9133 and effective June 1, 1987, the Division, on its own motion and upon the recommendation of the Hobbs district office of the Division, defined the producing formation in the Benson Well No. 1 to be the Devonian formation and created the North Knowles-Devonian Pool consisting of the SE/4 of said Section 14, Township 16 South, Range 38 East, NMPM, Lea County, New Mexico.

(6) Inasmuch as the subject pool has already been created and defined by the Division, that portion of the application concerning the creation of a new Siluro-Devonian pool should be dismissed.

(7) James A. Davidson, an interest owner in the S/2 SE/4 of said Section 14 whose interest in the SE/4 SE/4 of said Section 14 was compulsorily pooled by Marathon by Division Order No. R-8282 entered in Case No. 8960, appeared at the hearing in opposition to the establishment of 80-acre spacing for the North Knowles-Devonian Pool.

(8) The applicant presented a decline curve analysis based upon the production history of the Benson Well No. 1 which indicates the total recoverable reserves to be 109,663 barrels of oil.

(9) The applicant further presented a volumetric reserve calculation based upon known reservoir parameters and assuming 80-acre drainage which indicates reserves to be approximately 106,835 barrels of oil.

(10) Comparison of reserve estimates obtained from the decline curve analysis and the volumetric analysis indicates that one well should be capable of draining an 80-acre area in this reservoir.

(11) The applicant further presented economic evidence which indicates that based upon the recoverable reserve estimates obtained for the Benson Well No. 1, it would be uneconomical to drill wells on 40-acre proration units.

(12) The evidence presented in this case justifies the establishment of 80-acre spacing and proration units and, therefore, in order to prevent the economic loss caused by the drilling of unnecessary wells, to avoid the augmentation of risk arising from the drilling of an excessive number of

wells, to prevent reduced recovery which might result from the drilling of too few wells, and to otherwise prevent waste and protect correlative rights, temporary special rules and regulations providing for 80-acre spacing units should be promulgated for the North Knowles-Devonian Pool.

(13) The applicant requested at the hearing that the temporary special rules and regulations be established for a period of two years but testified that sufficient data necessary to adopt permanent rules for the pool would be available in approximately one year.

(14) Temporary special rules and regulations should be established for a period of 18 months in order to allow the operators in the subject pool to gather reservoir information to establish the area that can be efficiently and economically drained and developed by one well.

(15) Said temporary rules and regulations should also provide for well locations to be within 150 feet of the center of a governmental quarter-quarter section.

(16) The applicant further requested at the hearing that an oil discovery allowable pursuant to Division General Rule 509 be assigned to its Benson Well No. 1.

(17) Evidence presented at the hearing indicates that the Benson Well No. 1 is currently producing at low rates and is incapable of producing its oil allowable and therefore the applicant's request for a discovery allowable should be denied.

(18) This case should be reopened at an examiner hearing in February, 1989, at which time the operators in the subject pool should appear and show cause why the pool rules promulgated herein should not be rescinded.

IT IS THEREFORE ORDERED THAT:

(1) The application of Marathon Oil Company for the creation of a new pool for Siluro-Devonian production is hereby dismissed.

(2) Temporary Special Rules and Regulations for the North Knowles-Devonian Pool are hereby promulgated as follows:

SPECIAL RULES AND REGULATIONS
FOR THE
NORTH KNOWLES-DEVONIAN POOL

RULE 1. Each well completed or recompleted in the North Knowles-Devonian Pool or in the Devonian formation within one mile thereof, and not nearer to or within the limits of another designated Devonian oil pool, shall be spaced, drilled, operated, and produced in accordance with the Special Rules and Regulations hereinafter set forth.

RULE 2. Each well shall be located on a standard unit containing 80 acres, more or less, consisting of the N/2, S/2, E/2, or W/2 of a governmental quarter section; provided, however, that nothing contained herein shall be construed as prohibiting the drilling of a well on each of the quarter-quarter sections in the unit.

RULE 3. For good cause shown, the Director may grant an exception to the requirements of Rule 2 without notice and hearing when the application is for a non-standard unit comprising a single quarter-quarter section or lot. All operators offsetting the proposed non-standard unit shall be notified of the application by registered or certified mail, and the application shall state that such notice has been furnished. The Director may approve the application if, after a period of 30 days, no offset operator has entered an objection to the formation of such non-standard unit.

The allowable assigned to any such non-standard unit shall bear the same ratio to a standard allowable in the North Knowles-Devonian Pool as the acreage in such non-standard unit bears to 80 acres.

RULE 4. Each well shall be located within 150 feet of the center of a governmental quarter-quarter section or lot.

RULE 5. The Division Director may grant an exception to the requirements of Rule 4 without notice and hearing when an application has been filed for an unorthodox location necessitated by topographical conditions or the recompletion of a well previously drilled to another horizon. All operators offsetting the proration unit shall be notified of the application by registered or certified mail, and the application shall state that such notice has been furnished. The Director may approve the application upon receipt of written waivers from all operators offsetting the proration unit or if no objection to the unorthodox

location has been entered within 20 days after the Director has received the application.

RULE 6. Top unit allowable for a standard proration unit (79 through 81 acres) shall be based on a depth bracket allowable of 535 barrels per day, and in the event there is more than one well on an 80-acre proration unit, the operator may produce the allowable assigned to the unit from the wells on the unit in any proportion.

The allowable assigned to a non-standard proration unit shall bear the same ratio to a standard allowable as the acreage in such non-standard unit bears to 80 acres.

IT IS FURTHER ORDERED THAT:

(3) The portion of the application requesting that a discovery allowable be assigned to the Benson Well No. 1 is hereby denied.

(4) The locations of any other wells, presently drilling to or completed in the North Knowles-Devonian Pool or within one mile thereof, and not nearer to or within the limits of another designated Devonian pool, are hereby approved; the operator of any well having an unorthodox location shall notify the Hobbs District Office of the Division in writing of the name and location of the well on or before November 1, 1987.

(5) Pursuant to Paragraph A. of Section 70-2-18, NMSA 1978 Comp., contained in Laws of 1969, Chapter 271, existing oil wells in the North Knowles-Devonian Pool shall have dedicated thereto 80 acres in accordance with the foregoing pool rules; or, pursuant to Paragraph C. of said Section 70-2-18, existing wells may have non-standard spacing or proration units established by the Division and dedicated thereto.

Failure to file new Forms C-102 with the Division dedicating 80 acres to a well or to obtain a non-standard unit approved by the Division within 60 days from the date of this order shall subject the well to cancellation of allowable. Until said Form C-102 has been filed or until a non-standard unit has been approved, and subject to said 60-day limitation, each well presently drilling to or completed in the North Knowles-Devonian Pool or in its corresponding vertical limits as described in Ordering Paragraph No. (1) above, or within one mile thereof, shall

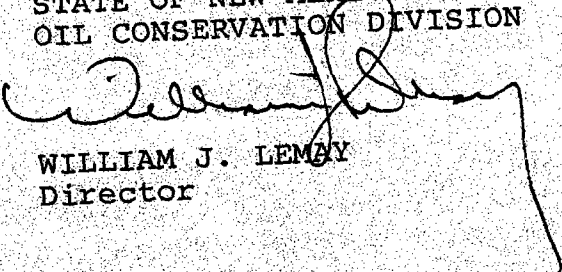
receive no more than one-half of a standard allowable for said pool.

(6) This case shall be reopened at an examiner hearing in February, 1989, at which time the operators in the subject pool may appear and show cause why the North Knowles-Devonian Pool rules should not be rescinded.

(7) 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

S E A L

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STATE OF NEW MEXICO
ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT
OIL CONSERVATION DIVISION

IN THE MATTER OF CASE NO. 9145
BEING REOPENED PURSUANT TO THE
PROVISIONS OF DIVISION ORDER
NO. R-8497, WHICH PROMULGATED
TEMPORARY SPECIAL RULES AND
REGULATIONS FOR THE NORTH
KNOWLES-DEVONIAN POOL, LEA
COUNTY, NEW MEXICO

See Also R-8497

Reopened
CASE NO. 9145
ORDER NO. R-8497-A

ORDER OF THE DIVISION

BY THE DIVISION:

This cause came on for hearing at 8:15 a.m. on March 15, 1989, at Santa Fe, New Mexico, before Examiner Michael E. Stogner.

NOW, on this 22nd day of March, 1989, the Division Director, having considered the testimony, the record and the recommendations of the Examiner, and being 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) Division Order No. R-8479, issued in Case No. 9145 and dated August 28, 1987, promulgated temporary special rules and regulations for the North Knowles-Devonian Pool, Lea County, New Mexico, including provisions for 80-acre spacing and proration units and designated well locations.
- (3) Pursuant to the provisions of said Order No. R-8497 this case was reopened to allow the operators in the subject pool to appear and show cause why the Special Rules and Regulations for said pool should not be rescinded and the pool be developed on statewide 40-acre oil spacing units.
- (4) Marathon Oil Company, operator of the only two wells in the pool and the applicant in original Case No. 9145, appeared at the hearing and presented evidence and testimony in support of the continuation of the special rules and regulations for the subject pool.
- (5) The evidence presented established that one well in the subject pool can efficiently and economically drain and develop 80 acres.

Case No. 9145
Order No. R-8497-A
Page No. 2

(6) The special rules and regulations promulgated by Order No. R-8497 have afforded and will afford the owner of each property in the pool the opportunity to produce his just and equitable share of the oil in the pool.

(7) In order to prevent the economic loss caused by the drilling of an excessive number of wells, to avoid the augmentation of risk arising from the drilling of an excessive number of wells, to prevent reduced recovery which might result from the drilling of too few wells and to otherwise prevent waste and protect correlative rights, Order No. R-8497 should be continued in full force and effect until further order of the Division.

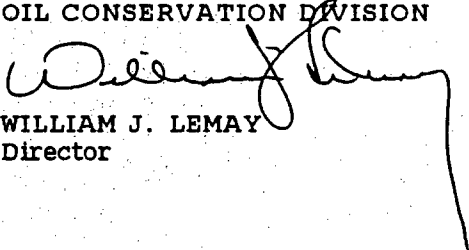
IT IS THEREFORE ORDERED THAT:

(1) The Special Rules and Regulations governing the North Knowles-Devonian Pool, Lea County, New Mexico, promulgated by Division Order No. R-8497, are hereby continued in full force and effect until further order of the Division.

(2) 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

S E A L

CMD : ONGARD 10/06/04 13:08:32
OG6C101 C101-APPLICATION FOR PERMIT TO DRILL OGOMES -TPW8

OGRID Idn : 11181 API Well No: 30 25 36898 APD Status(A/C/P): A
Opr Name, Addr: J CLEO THOMPSON Aprvl/Cncl Date : 10-01-2004
325 N ST PAUL STE 4300
DALLAS, TX 75201

Prop Idn: 34282 LAWRENCE Well No: 1

U/L	Sec	Township	Range	Lot	Idn	North/South	East/West
Surface Locn	: H	14	16S	38E		FTG 2531 F N	FTG 630 F E
OCD U/L	: H	API County		: 25			

Work typ(N/E/D/P/A) : N Well typ(O/G/M/I/S/W/C): O Cable/Rotary (C/R) : R
Lease typ(F/S/P/N/J/U/I): P Ground Level Elevation : 3702

State Lease No: Multiple Comp (S/M/C) : S
Prpsd Depth : 13300 Prpsd Frmtn : DEVONIAN NEEDS NSL TO PRODUCE

E0009: Enter data to modify record
PF01 HELP PF02 PF03 EXIT PF04 GoTo PF05 PF06 CONFIRM
PF07 PF08 PF09 PRINT PF10 C102 PF11 HISTORY PF12

District I

1625 N. French Dr., Hobbs, NM 88240

District II

1301 W. Grand Avenue, Artesia, NM 88210

District III

1000 Rio Brazos Road, Aztec, NM 87410

District IV

1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural ResourcesOil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505Form C-101
Revised June 10, 2003

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**

¹ Operator Name and Address THOMPSON, J. CLEO P.O. BOX 12577 ODESSA, TX 79768-2577		² OGRID Number 11181	
³ Property Code 34282		⁴ Property Name LAWRENCE	
		⁵ API Number 30 - 025 - 36898	
		⁶ Well No. 1	

⁷ Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
H	14	16-S	38-E		2531	NORTH	630	EAST	LEA

⁸ 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

⁹ Proposed Pool 1 KNOWLES NORTH <i>Devonian</i>	¹⁰ Proposed Pool 2
---	-------------------------------

¹¹ Work Type Code N	¹² Well Type Code 0	¹³ Cable/Rotary R	¹⁴ Lease Type Code P	¹⁵ Ground Level Elevation 3702
¹⁶ Multiple NO	¹⁷ Proposed Depth 13,300	¹⁸ Formation DEVONIAN	¹⁹ Contractor PATTERSON	²⁰ Spud Date 10/05/2004

²¹ 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	300	430	SURFACE
12 1/4	9 5/8	40	5000	1600	SURFACE
8 3/4	5 1/2	17	13,300	1400	7500'
OPTIONAL	7" CASING STRING MAY BE SET IF	NEEDED			

²² 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.

DRILL TO 300', SET 13 3/8 CSG & CEMENT TO SURFACE.

DRILL TO 5000' (TOP OF SAN ANDRES) WITH BRINE WATER & NATIVE SOLIDS; SET 9 5/8 CASING & CEMENT TO SURFACE.

DRILL TO TD W/8 3/4 BIT & SET 5 1/2 17# N-80 & P-110 CASING.

AN OPTIONAL 7" CASING STRING MAY BE SET IF HOLE PROBLEMS ARE ENCOUNTERED

☒ Approval for drill only - Cannot produce until Non-Standard location approved in Santa Fe.

²³ I hereby certify that the information given above is true and complete to the best of my knowledge and belief. Signature: <i>J. E. Stevens</i> Printed name: JIM STEVENS Title: OPERATIONS MANAGER E-mail Address: jctwest@nts-online.net Date: 09/13/2004		OIL CONSERVATION DIVISION Approved by: <i>[Signature]</i> Title: PETROLEUM ENGINEER Approval Date: OCT 01 2004 Expiration Date: Conditions of Approval: Attached ☒ <i>See X</i>	
Phone: (432)550-8887			

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 API Number 30-025-36898		2 Pool Code 36330		3 Pool Name Knowles North Devonian		
4 Property Code 34282		5 Property Name Lawrence			6 Well Number 1	
7 OGRID No.		8 Operator Name J. Cleo Thompson			9 Elevation 3702'	

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
H	14	16-S	38-E		2531	North	630	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

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

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	GR ELEV 3702' J. Cleo Thompson "Lawrence" Lease	17 OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief <i>J.E. Stevens</i> Signature J.E. STEVENS Printed Name OPERATIONS MANAGER Title SEPT 24, 2004 Date
		18 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 August 5, 2004 Date of Survey Revised 09/23/04 Signature and Seal of Professional Surveyor: <i>Max A. Schumann, Jr.</i> Max A. Schumann, Jr. Certificate Number 1510

Job No. 68,859

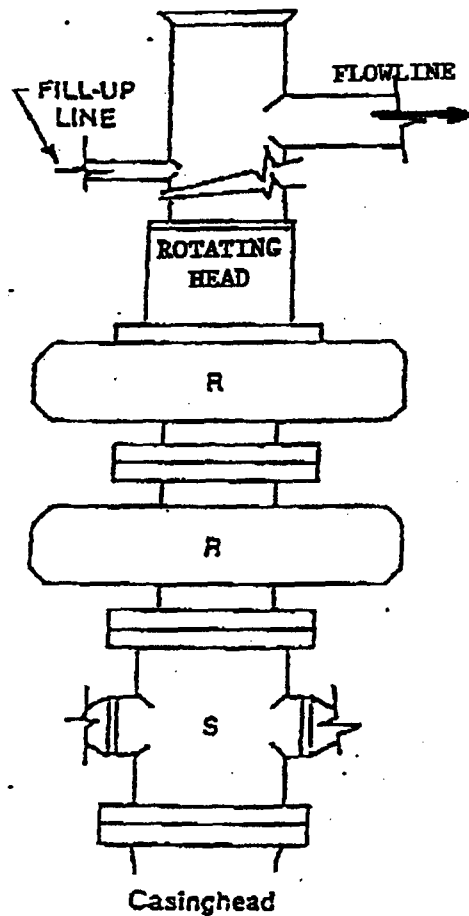
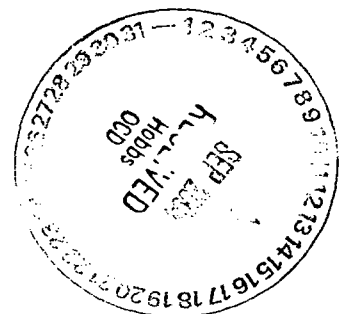


FIGURE K1-1. Recommended IADC Class 2 BOP stack, 2000 psi WP. Either SRd (left) or SA (right) arrangement is acceptable and drilling spool is optional.



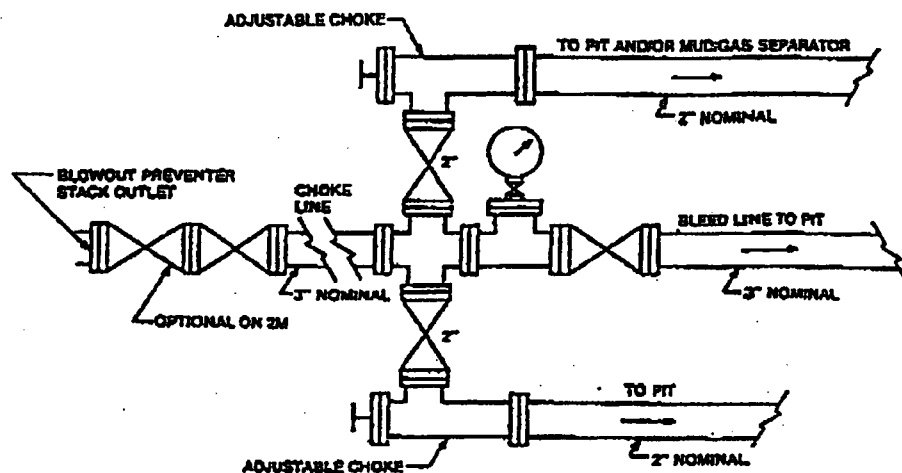


FIGURE K4-1. Typical choke manifold assembly for 2M and 3M rated working pressure service — surface installation.

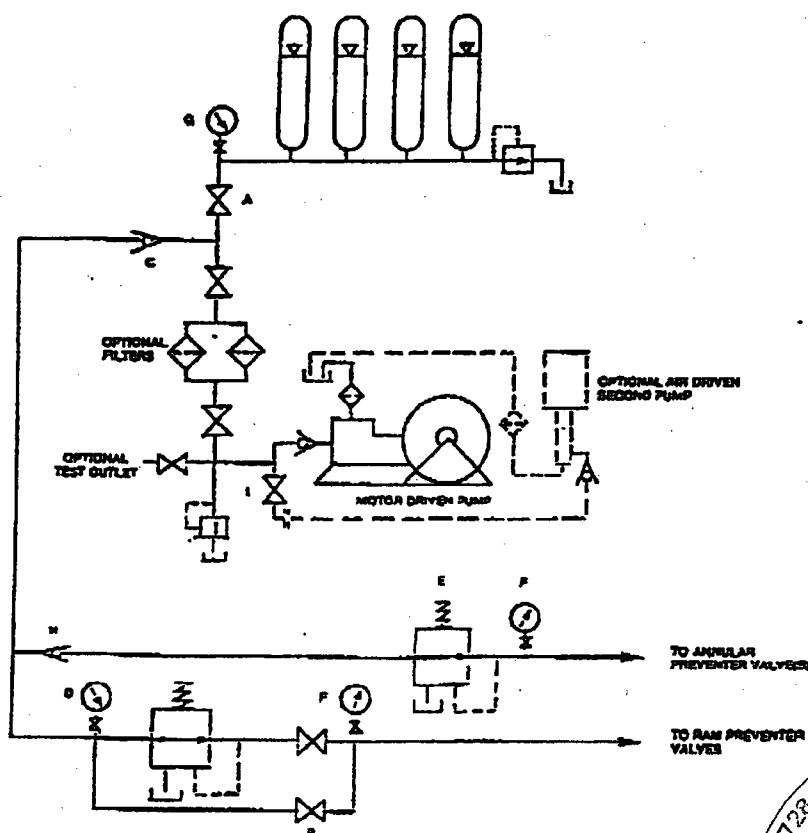
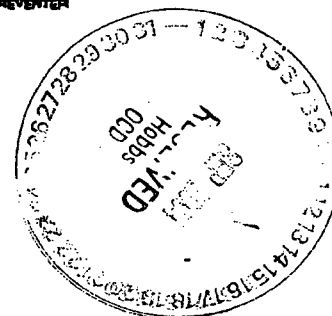


FIGURE K6-1. The schematic sketch of an accumulator system shows required and optional components.



District I
1625 N. French Dr., Hobbs, NM 88240
District II
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District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-144
June 1, 2004

For drilling and production facilities, submit to appropriate NMOCD District Office.
For downstream facilities, submit to Santa Fe office

Pit or Below-Grade Tank Registration or Closure

Is pit or below-grade tank covered by a "general plan"? Yes ☐ No ☐

Type of action: Registration of a pit or below-grade tank ☒ Closure of a pit or below-grade tank ☐

Operator: J. CLEO THOMPSON Telephone: (432) 550-8887 e-mail address: jctwest@nts-online.net

Address: P.O. BOX 12577, ODESSA, TX 79765-2577

Facility or well name: LAWRENCE NO. 1 API #: 30-025-36898 U/L or Qtr/Qtr H 14 Sec 14 T 16 S R 38-E

County: LEA Latitude _____ Longitude NAD: 1927 ☐ 1983 ☐ Surface Owner Federal ☐ State ☐ Private ☒ Indian ☐

Pit

Type: Drilling ☒ Production ☐ Disposal ☐

Workover ☐ Emergency ☐

Lined ☒ Unlined ☐

Liner type: Synthetic ☒ Thickness 12 mil Clay ☐

Pit Volume 11,000 bbl

Below-grade tank

Volume: _____ bbl Type of fluid: _____

Construction material: _____

Double-walled, with leak detection? Yes ☐ If not, explain why not. _____

Depth to ground water (vertical distance from bottom of pit to seasonal high water elevation of ground water.)

Less than 50 feet (20 points)
50 feet or more, but less than 100 feet (10 points)
100 feet or more (0 points)

Wellhead protection area: (Less than 200 feet from a private domestic water source, or less than 1000 feet from all other water sources.)

Yes (20 points)
No (0 points)

Distance to surface water: (horizontal distance to all wetlands, playas, irrigation canals, ditches, and perennial and ephemeral watercourses.)

Less than 200 feet (20 points)
200 feet or more, but less than 1000 feet (10 points)
1000 feet or more (0 points)

Ranking Score (Total Points)

If this is a pit closure: (1) attach a diagram of the facility showing the pit's relationship to other equipment and tanks. (2) Indicate disposal location: (check the onsite box if you are burying in place) onsite ☐ offsite ☐ If offsite, name of facility: _____. (3) Attach a general description of remedial action taken including remediation start date and end date. (4) Groundwater encountered: No ☐ Yes ☐ If yes, show depth below ground surface _____. (5) Attach soil sample results and a diagram of sample locations and excavations.

Additional Comments:

I hereby certify that the information above is true and complete to the best of my knowledge and belief. I further certify that the above-described pit or below-grade tank has been/will be constructed or closed according to NMOCD guidelines ☒ a general permit ☐, or an (attached) alternative OCD-approved plan ☐.

Date: 9/16/04

Printed Name/Title J.E. STEVENS, OPERATIONS MANAGER

Signature J.E. Stevens

Your certification and NMOCD approval of this application/closure does not relieve the operator of liability should the contents of the pit or tank contaminate ground water or otherwise endanger public health or the environment. Nor does it relieve the operator of its responsibility for compliance with any other federal, state, or local laws and/or regulations.

Approval: M/104

Printed Name/Title _____

Signature Paul E. Stevens

[HOME](#) | [PETROLEUM DATA](#) | [NEWS](#) | [MARKETPLACE](#) | [SOFTWARE](#) | [SPONSORS](#) | [LINKS](#) | [CONTACT](#)

[PTTC](#)
[PRRC](#)
[NM-TECH](#)
[NMBGMR](#)



[NYMEX LS Crude](#) \$49.91
[Navajo WTXI](#) \$46.75
[Henry Hub](#) \$6.73

Updated 10/5/2004

[GENERAL](#) | [COUNTY](#) | [OPERATOR](#) | [POOL](#) | [LOCATION](#) | [OCD LOG & WELL FILES](#)

View Production Data

In Internet Explorer, right click and select "Save Target As..."
 In Netscape, right click and select "Save Link As..."

Download: [HTTP](#)

Well: J BENSON **No.:** 001
Operator: LONE STAR OIL & GAS, INC. [[NM SLO data](#)]
API: 3002529787 **Township:** 16.0S **Range:** 38E
Section: 14 **Unit:** P
Land Type: P **County:** Lea
Pools associated:

- [KNOWLES;DEVONIAN, NORTH](#) **Total Acreage:** Unknown **Completion:** Unknown
- [Show All](#)

Year: 1987

Pool Name: KNOWLES;DEVONIAN, NORTH

Month	Oil(BBLS)	Gas(MCF)	Water(BBLS)	Days Produced	Accum. Oil(BBLS)	Accum. Gas(MCF)
January	0	0	0	0	0	0
February	3185	0	0	18	3185	0
March	4145	0	0	31	7330	0
April	2281	0	0	30	9611	0
May	1786	0	3518	31	11397	0
June	1481	0	3438	30	12878	0
July	982	0	3061	0	13860	0
August	1253	0	4028	31	15113	0
September	1192	0	3959	30	16305	0
October	1231	0	4222	31	17536	0
November	636	0	2162	20	18172	0
December	1326	0	3840	31	19498	0

Total 19498 0 28228 283

Year: 1988

Pool Name: KNOWLES;DEVONIAN, NORTH

Month	Oil(BBLS)	Gas(MCF)	Water(BBLS)	Days Produced	Accum. Oil(BBLS)	Accum. Gas(MCF)
January	1026	0	2982	23	20524	0
February	1123	0	3261	29	21647	0
March	1142	340	4628	31	22789	340
April	950	368	3946	30	23739	708
May	719	237	3804	31	24458	945
June	705	249	4669	30	25163	1194
July	711	221	4343	31	25874	1415
August	670	195	4073	31	26544	1610
September	640	152	4481	30	27184	1762
October	570	202	3882	31	27754	1964
November	581	177	5715	30	28335	2141
December	592	103	4646	31	28927	2244
Total	9429	2244	50430	358		

Year: 1989

Pool Name: KNOWLES;DEVONIAN, NORTH

Month	Oil(BBLS)	Gas(MCF)	Water(BBLS)	Days Produced	Accum. Oil(BBLS)	Accum. Gas(MCF)
January	594	163	2903	31	29521	2407
February	418	130	3345	28	29939	2537
March	560	194	5180	31	30499	2731
April	464	198	2281	25	30963	2929
May	519	283	3506	31	31482	3212
June	513	320	4748	30	31995	3532
July	534	320	4160	31	32529	3852
August	521	395	959	31	33050	4247
September	610	265	4983	29	33660	4512
October	498	349	5066	31	34158	4861
November	489	218	5670	30	34647	5079
December	490	140	4003	31	35137	5219
Total	6210	2975	46804	359		

Year: 1990

Pool Name: KNOWLES;DEVONIAN, NORTH

Month	Oil(BBLS)	Gas(MCF)	Water(BBLS)	Days Produced	Accum. Oil(BBLS)	Accum. Gas(MCF)
January	508	245	4605	31	35645	5464
February						

	427	168	5111	28	36072	5632
March	428	124	4218	31	36500	5756
April	471	75	259	30	36971	5831
May	417	130	3911	31	37388	5961
June	408	33	612	29	37796	5994
July	404	32	7636	30	38200	6026
August	399	73	2879	31	38599	6099
September	366	59	3108	25	38965	6158
October	395	119	3820	31	39360	6277
November	412	115	3687	30	39772	6392
December	345	126	4115	27	40117	6518
Total	4980	1299	43961	354		

Year: 1991

Pool Name: KNOWLES;DEVONIAN, NORTH

Month	Oil(BBLS)	Gas(MCF)	Water(BBLS)	Days Produced	Accum. Oil(BBLS)	Accum. Gas(MCF)
January	430	126	6952	31	40547	6644
February	341	136	4519	28	40888	6780
March	384	177	0	31	41272	6957
April	460	187	5610	28	41732	7144
May	287	136	3993	27	42019	7280
June	347	49	4246	30	42366	7329
July	353	54	4312	31	42719	7383
August	351	62	4366	31	43070	7445
September	322	91	6322	30	43392	7536
October	287	170	5631	31	43679	7706
November	254	73	5074	23	43933	7779
December	288	56	6949	30	44221	7835
Total	4104	1317	57974	351		

Year: 1992

Pool Name: KNOWLES;DEVONIAN, NORTH

Month	Oil(BBLS)	Gas(MCF)	Water(BBLS)	Days Produced	Accum. Oil(BBLS)	Accum. Gas(MCF)
January	278	51	6727	31	44499	7886
February	224	23	5348	27	44723	7909
March	260	28	6181	25	44983	7937
April	232	30	5521	28	45215	7967
May	263	29	5491	31	45478	7996
June	250	32	5378	27	45728	8028
July	249	45	6431	31	45977	8073

August	31	5	768	3	46008	8078
September	14	11	3630	25	46022	8089
October	0	5	0	20	46022	8094
November	0	13	0	25	46022	8107
December	115	31	5952	18	46137	8138
Total	1916	303	51427	291		

Year: 1993

Pool Name: KNOWLES;DEVONIAN, NORTH

Month	Oil(BBLS)	Gas(MCF)	Water(BBLS)	Days Produced	Accum. Oil(BBLS)	Accum. Gas(MCF)
January	32	10	0	13	46169	8148
February	0	1	0	10	46169	8149
March	0	0	0	0	46169	8149
April	0	0	0	0	46169	8149
May	0	0	0	0	46169	8149
June	0	0	0	0	46169	8149
July	0	0	0	0	46169	8149
August	0	0	0	0	46169	8149
September	0	0	0	0	46169	8149
October	0	0	0	0	46169	8149
November	0	0	0	0	46169	8149
December	0	0	0	0	46169	8149
Total	32	11	0	23		

Year: 1997

Pool Name: KNOWLES;DEVONIAN, NORTH

Month	Oil(BBLS)	Gas(MCF)	Water(BBLS)	Days Produced	Accum. Oil(BBLS)	Accum. Gas(MCF)
January	0	0	0	0	46169	8149
February	0	0	0	0	46169	8149
March	0	0	0	0	46169	8149
April	0	0	0	0	46169	8149
May	0	0	0	0	46169	8149
June	0	0	0	0	46169	8149
July	0	0	0	0	46169	8149
August	0	0	0	0	46169	8149
September	0	0	0	0	46169	8149
October	0	0	0	0	46169	8149
November	361	0	1206	30	46530	8149
December	679	0	0	31	47209	8149
Total	1040	0	1206	61		

Year: 1998

Pool Name: KNOWLES;DEVONIAN, NORTH

Month	Oil(BBLS)	Gas(MCF)	Water(BBLS)	Days Produced	Accum. Oil(BBLS)	Accum. Gas(MCF)
January	510	0	0	31	47719	8149
February	362	0	0	28	48081	8149
March	808	0	0	31	48889	8149
April	455	0	0	30	49344	8149
May	322	0	0	31	49666	8149
June	155	0	0	30	49821	8149
July	250	0	0	31	50071	8149
August	69	0	0	31	50140	8149
September	270	0	0	30	50410	8149
October	285	0	0	31	50695	8149
November	266	0	0	30	50961	8149
December	263	0	0	31	51224	8149
Total	4015	0	0	365		

Year: 1999

Pool Name: KNOWLES;DEVONIAN, NORTH

Month	Oil(BBLS)	Gas(MCF)	Water(BBLS)	Days Produced	Accum. Oil(BBLS)	Accum. Gas(MCF)
January	255	0	0	31	51479	8149
February	231	0	0	28	51710	8149
March	245	0	0	31	51955	8149
April	212	0	0	30	52167	8149
May	211	0	0	31	52378	8149
June	198	0	0	30	52576	8149
July	210	0	0	31	52786	8149
August	219	0	1953	31	53005	8149
September	177	0	0	30	53182	8149
October	189	0	0	31	53371	8149
November	182	0	0	30	53553	8149
December	25	0	0	31	53578	8149
Total	2354	0	1953	365		

Year: 2000

Pool Name: KNOWLES;DEVONIAN, NORTH

Month	Oil(BBLS)	Gas(MCF)	Water(BBLS)	Days Produced	Accum. Oil(BBLS)	Accum. Gas(MCF)
January	5	0	0	31	53583	8149
February	230	0	0	29	53813	8149
March	194	0	0	31	54007	8149
April						

	188	0	0	30	54195	8149
May	18	0	0	4	54213	8149
June	3	0	0	1	54216	8149
July	196	0	0	31	54412	8149
August	141	0	0	31	54553	8149
September	139	0	0	30	54692	8149
October	148	0	0	31	54840	8149
November	159	0	0	30	54999	8149
December	130	0	4002	31	55129	8149
Total	1551	0	4002	310		

Year: 2001

Pool Name: KNOWLES;DEVONIAN, NORTH

Month	Oil(BBLS)	Gas(MCF)	Water(BBLS)	Days Produced	Accum. Oil(BBLS)	Accum. Gas(MCF)
January	59	0	0	31	55188	8149
February	34	0	0	28	55222	8149
March	0	0	0	0	55222	8149
April	11	0	0	30	55233	8149
May	0	0	0	0	55233	8149
June	0	0	0	0	55233	8149
July	0	0	0	0	55233	8149
August	0	0	0	0	55233	8149
September	0	0	0	0	55233	8149
October	0	0	0	0	55233	8149
November	0	0	0	0	55233	8149
December	0	0	0	0	55233	8149
Total	104	0	0	89		

Page last updated 07/22/2004. Webmaster gotech@prrc.nmt.edu

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

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

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

OIL CONSERVATION DIVISION

2040 Pacheco St.
Santa Fe, NM 87505

WELL API NO. 30-025-29737
Indicate Type of Lease STATE ☒ FEE ☒
State Oil & Gas Lease No.

SUNDRY NOTICES AND REPORTS ON WELLS
(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A
DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT"
(FORM C-101) FOR SUCH PROPOSALS.)

Lease Name or Unit Agreement Name
Benson

Type of Well:
OIL WELL ☐ GAS WELL ☐ OTHER

Name of Operator
Lone Star Oil & Gas, Inc.

Well No.
1

Address of Operator
P.O. Box 2735 Midland, Texas 79701

Pool name or Wildcat

Well Location
Unit Letter P : 330 Feet From The South Line and 990 Feet From The East Line
Section 14 Township 16S Range 38E NMPM Lea County

Elevation (Show whether DF, RKB, RT, GR, etc.)

11

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

NOTICE OF INTENTION TO:

PERFORM REMEDIAL WORK ☐ PLUG AND ABANDON ☐
TEMPORARILY ABANDON ☐ CHANGE PLANS ☐
PULL OR ALTER CASING ☐
OTHER: ☐

SUBSEQUENT REPORT OF:

REMEDIAL WORK ☐ ALTERING CASING ☐
COMMENCE DRILLING OPNS. ☐ PLUG AND ANBANDONMENT ☒
CASING TEST AND CEMENT JOB ☐
OTHER: ☐

Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work) SEE RULE 1103.

Notify OCD 24 hrs before starting

1. POH w/ rods & tubing
2. Set CIBP @ 13000' w/ 35' cmt on top
3. RIH circulate well w/ 9.8 mud
4. Spot 100' plug @ 10000'
5. spot 100' plug @ 7000'
6. Cut & pull % 1/2 casing @ 5000'
7. RIH spot 100' stub plug 50' in & out stub woc tag (9 5/8 shoe @ 5017')
8. Spot 100' plug @ 2000'
- 9 Spot 100' plug @ 380 (13 3/8 shoe @ 319')
10. Spot cmt from 30' to surface
11. cut off well head install dry hole marker

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

SIGNATURE Roger D. Brooks

TITLE Cementite

DATE 8-1-01

TYPE OR PRINT NAME Roger D. Brooks

TELEPHONE NO. 915-580-7161

(This space for State Use)

APPROVED BY

Johnny Robinson

TITLE

REGIONAL OFFICER

DATE

FEB 19 2002

CONDITIONS OF APPROVAL, IF ANY:

GWW

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

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

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

OIL CONSERVATION DIVISION

2040 Pacheco St.
Santa Fe, NM 87505

WELL API NO. 30-025-29787
Indicate Type of Lease STATE ☒ FEE ☒
State Oil & Gas Lease No.

SUNDRY NOTICES AND REPORTS ON WELLS (DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)	
Type of Well: OIL WELL ☐ GAS WELL ☐ OTHER ☐	Lease Name or Unit Agreement Name Benson
Name of Operator Lone Star Oil & Gas, Inc.	
Address of Operator P.O. Box 2735 Midland, Texas 79701	Well No. 1
Well Location Unit Letter <u>P</u> : <u>330</u> Feet From The <u>South</u> Line and <u>990</u> Feet From The <u>East</u> Line Section <u>14</u> Township <u>16S</u> Range <u>38E</u> NMPM <u>Lea</u> County	Pool name or Wildcat
Elevation (Show whether DF, RKB, RT, GR, etc.)	

11

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

NOTICE OF INTENTION TO:

PERFORM REMEDIAL WORK ☐ PLUG AND ABANDON ☒
TEMPORARILY ABANDON ☐ CHANGE PLANS ☐
PULL OR ALTER CASING ☐
OTHER: ☐

SUBSEQUENT REPORT OF:

REMEDIAL WORK ☐ ALTERING CASING ☐
COMMENCE DRILLING OPNS. ☐ PLUG AND ABANDONMENT ☐
CASING TEST AND CEMENT JOB ☐
OTHER: ☐

Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work) SEE RULE 1103.

Notify OCD 24 hrs before starting

1. POH w/ rods & tubing
2. Set CIBP @ 13000' w/ 35' cmt on top
3. RIH circulate well w/ 9.8 mud
4. Spot 100' plug @ 10000'
5. spot 100' plug @ 7000'
6. Cut & pull % 1/2 casing @ 5000'
7. RIH spot 100' stub plug 50' in & out stub woc tag (9 5/8 shoe @ 5017')
8. Spot 100' plug @ 2000'
- 9 Spot 100' plug @ 380 (13 3/8 shoe @ 319')
10. Spot cmt from 30' to surface
11. cut off well head install dry hole marker

THE COMMISSION MUST BE NOTIFIED 24 HOURS PRIOR TO THE BEGINNING OF PLUGGING OPERATIONS FOR THE C-103 TO BE APPROVED.

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

SIGNATURE Roger D. Brooks TITLE Agent DATE 7/18/01

TYPE OR PRINT NAME TELEPHONE NO.

(This space for State Use)

APPROVED BY TITLE DATE

CONDITIONS OF APPROVAL, IF ANY:

ORIGINAL SIGNED BY
GARY WINK
FIELD REP. II

JUL 18 2001

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-104
Revised October 18, 1994
Instructions on back
Submit to Appropriate District Office
5 Copies

☐ AMENDED REPORT

REQUEST FOR ALLOWABLE AND AUTHORIZATION TO TRANSPORT

Operator name and Address Lone Star Oil & Gas, Inc. P. O. Box 2735 Midland, TX 79702		OGRID Number 161485
		Reason for Filing Code RC (11/97)
API Number 30 - 0 25-29787	Pool Name North Knowles Devonian	Pool Code 36330
Property Code 21090	Property Name J. Benson	Well Number 1

II. 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	16S	38E		330	South	990	East	Lea

¹¹ Bottom Hole 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	16S	38E		1140	South	770	East	Lea
¹² Log Code P	¹³ Producing Method Code P	¹⁴ Gas Connection Date	¹⁵ C-129 Permit Number	¹⁶ C-129 Effective Date	¹⁷ C-129 Expiration Date				

III. Oil and Gas Transporters

¹⁸ Transporter OGRID	¹⁹ Transporter Name and Address	²⁰ FOD	²¹ O/G	²² FOD ULSTR Location and Description
15694	Navajo Refining Company P. O. Box 159 Artesia, NM 88211	2820005	O	Sec. 14, T16S, R38E Unit P

IV. Produced Water

²³ FOD	²⁴ FOD ULSTR Location and Description
2820728	

V. Well Completion Data

²⁵ Spud Date	²⁶ Ready Date	²⁷ TD	²⁸ FBTD	²⁹ Perforations	³⁰ DHC, DC, MC
7/15/97	11/1/97	13246	13220	O/H	
³¹ Hole Size	³² Casing & Tubing Size	³³ Depth Set	³⁴ Seals Cement		
17 1/4	13 3/8	319	430-TOC=Surface		
12 1/4	9 5/8	5017	2015-TOC=Surface		
8 3/4	5 1/2	13194	1650		

VI. Well Test Data

³⁵ Date New Oil	³⁶ Gas Delivery Date	³⁷ Test Date	³⁸ Test Length	³⁹ Tbg. Pressure	⁴⁰ Csg. Pressure
11/14/97	None	11/16/97	24 hrs		
⁴¹ Choke Size	⁴² Oil	⁴³ Water	⁴⁴ Gas	⁴⁵ AOF	⁴⁶ Test Method
44		105	None		Pump

⁴⁷ I hereby certify that the rules of the Oil Conservation Division have been complied with and that the information given above is true and complete to the best of my knowledge and belief. Signature: <i>Linda Johnston</i>		OIL CONSERVATION DIVISION ORIGINAL SIGNED BY CHRIS WILLIAMS DISTRICT I SUPERVISOR	
Printed name: Linda Johnston		Title:	
Title: Agent		Approval Date: 11/15/98	
Date: 1/14/98	Phone: (915) 694-8228		
⁴⁸ If this is a change of operator fill in the OGRID number and name of the previous operator.			
Previous Operator Signature		Printed Name -	Title Date

8/20

Submit to Appropriate
District Office
State Lease - 6 copies
Fee Lease - 5 copies
DISTRICT I
P.O. Box 1980, Hobbs, NM 88240

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

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

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-105
Revised 1-1-89

OIL CONSERVATION DIVISION

2040 Pacheco St.
Santa Fe, NM 87505

WELL API NO.
30-025-29787

5. Indicate Type of Lease
STATE ☐ FEE ☐

6. State Oil & Gas Lease No.

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

1a. Type of Well:
OIL WELL ☒ GAS WELL ☐ DRY ☐ OTHER _____
b. Type of Completion:
NEW WELL ☒ WORK OVER ☐ DEEPEN ☐ PLUG BACK ☐ DIFF. RESVR ☐ OTHER _____

7. Lease Name or Unit Agreement Name
J. Benson

2. Name of Operator
Lone Star Oil & Gas, Inc.

8. Well No.
1

3. Address of Operator
P. O. Box 2735, Midland, TX 79702

9. Pool name or Wildcat
North Knowles Devonian

4. Well Location
SUR Unit Letter P: 330 Feet From The South Line and 990 Feet From The East Line
BHL Section 14 Township 16S Range 38E NMFM Lea County

10. Date Spudded 7/15/97 11. Date T.D. Reached 11/1/97 12. Date Compl. (Ready to Prod.) 11/14/97 13. Elevations (DF & RKB, RT, GR, etc.) 3698 14. Elev. Casinghead

15. Total Depth 13246 16. Plug Back T.D. 13220 17. If Multiple Compl. How Many Zones? 18. Intervals Drilled By Rotary Tools X Cable Tools

19. Producing interval(s), of this completion - Top, Bottom, Name
Open Hole - Devonian 13198-13220 20. Was Directional Survey Made Yes

21. Type Electric and Other Logs Run 22. Was Well Cored

CASING RECORD (Report all strings set in well)

CASING SIZE	WEIGHT LB/FT.	DEPTH SET	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
13 3/8	54.5	319	17 1/4	430 TOC=Surface	
9 5/8	40.0	5017	12 1/4	2015 TOC=Surface	
5 1/2	20.0	13194	8 3/4	1650	

24. LINER RECORD				25. TUBING RECORD		
SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN	SIZE	DEPTH SET
					Open Hole	

26. Perforation record (interval, size, and number)		27. ACID, SHOT, FRACTURE, CEMENT, SQUEEZE, ETC.	
13198-13220 Open Hole		DEPTH INTERVAL	AMOUNT AND KIND MATERIAL USED

28. PRODUCTION							
Date First Production 11/14/97		Production Method (Flowing, gas lift, pumping - Size and type pump) Pump				Well Status (Prod. or Shut-in) Producing	
Date of Test 11/16/97	Hours Tested 24	Choke Size	Prod'n For Test Period	Oil - Bbl. 44	Gas - MCF None	Water - Bbl. 105	Gas - Oil Ratio
Flow Tubing Press.	Casing Pressure	Calculated 24-Hour Rate	Oil - Bbl. 44	Gas - MCF None	Water - Bbl. 105	Oil Gravity - API - (Corr.) 48.5	

29. Disposition of Gas (Sold, used for fuel, vented, etc.) Test Witnessed By

30. List Attachments

31. I hereby certify that the information shown on both sides of this form is true and complete to the best of my knowledge and belief
Signature Linda Johnston Printed Name Linda Johnston Title Agent Date 3/6/98

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 25 through 29 shall be reported for each zone. The form is to be filed in quadruplicate except on state land, where six copies are required. See Rule 1105.

INDICATE FORMATION TOPS IN CONFORMANCE WITH GEOGRAPHICAL SECTION OF STATE

Southeastern New Mexico

Northwestern New Mexico

T. Anhy	T. Canyon	T. Ojo Alamo	T. Penn. "B"
T. Salt	T. Strawn	T. Kirtland-Fruitland	T. Penn. "C"
B. Salt	T. Atoka	T. Pictured Cliffs	T. Penn. "D"
T. Yates	T. Miss	T. Cliff House	T. Leadville
T. 7 Rivers	T. Devonian 13194	T. Menefee	T. Madison
T. Queen	T. Silurian	T. Point Lookout	T. Elbert
T. Grayburg	T. Montoya	T. Mancos	T. McCracken
T. San Andres	T. Simpson	T. Gallup	T. Ignacio Otzte
T. Glorieta	T. McKee	Base Greenhorn	T. Granite
T. Paddock	T. Ellenburger	T. Dakota	T.
T. Blinebry	T. Gr. Wash	T. Morrison	T.
T. Tubb	T. Delaware Sand	T. Todilto	T.
T. Drinkard	T. Bone Springs	T. Entrada	T.
T. Abo	T.	T. Wingate	T.
T. Wolfcamp	T.	T. Chinle	T.
T. Penn	T.	T. Permian	T.
T. Cisco (Bough C)	T.	T. Penn "A"	T.

OIL OR GAS SANDS OR ZONES

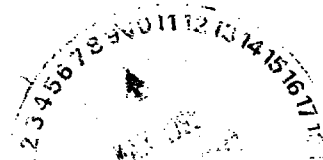
No. 1, from to
No. 2, from to
No. 3, from to
No. 4, from to

IMPORTANT WATER SANDS

Include data on rate of water inflow and elevation to which water rose in hole.

No. 1, from to feet
No. 2, from to feet
No. 3, from to feet

LITHOLOGY RECORD (Attach additional sheet if necessary)

From	To	Thickness in Feet	Lithology	From	To	Thickness in Feet	Lithology
							

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

API Number 30-025-29787		Pool Code 36330	Pool Name North Knowles Devonian
Property Code 21090	Property Name J. Benson		Well Number 1
OGRID No. 161485	Operator Name Lone Star Oil & Gas, Inc.		Elevation 3698

¹⁰ Surface Location

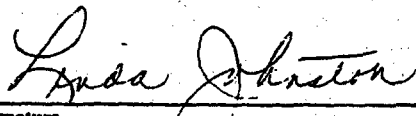
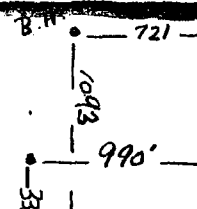
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
P	14	16S	38E		330	South	990	East	Lea

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	16S	38E		1093	South	721	East	lea

Dedicated Acres	Joint or Infill	Consolidation Code	Order No.
80			

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				¹⁷ OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief  Signature Linda Johnston Printed Name Agent Title 3/6/98 Date
				¹⁸ 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 Signature and Seal of Professional Surveyer: Certificate Number
				

District I
PO Box 1980, Hobbs, NM 88241-1980
District II
PO Drawer DD, Artesia, NM 88211-0719
District III
1000 Rio Brancos Rd., Aztec, NM 87410
District IV
PO Box 1088, Santa Fe, NM 87504-1088

State of New Mexico
Energy, Minerals & Natural Resources Department

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

Form C-104
Revised February 21, 1994
Instructions on back
Submit to Appropriate District Office
5 Copies

☐ AMENDED REPORT

I. REQUEST FOR ALLOWABLE AND AUTHORIZATION TO TRANSPORT

Operator name and Address Lone Star Oil & Gas, Inc. P.O. Box 2735 Midland, TX 79702		OGRID Number 161485
		Reason for Filing Code RT 200 10-97
AP Number 30-025-29787	Pool Name North Knowles Devonian	Pool Code 36330
Property Code 21090	Property Name J. Benson	Well Number #1

II. 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

Bottom Hole 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		1140	South	770	East	Lea
Lee Code P	Producing Method Code P	Gas Connection Date	C-129 Permit Number	C-129 Effective Date	C-129 Expiration Date				

III. Oil and Gas Transporters

Transporter OGRID	Transporter Name and Address	POD	O/G	POD ULSTR Location and Description
15694	Navajo Refining Co. P.O. Box 159 Artesia, N.M. 88211	2820005	O	P Sec. 14, T-16-S, R-38-E

IV. Produced Water

POD	POD ULSTR Location and Description

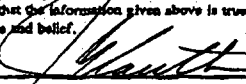
V. Well Completion Data

Spud Date	Ready Date	TD	PBTD	Perforations	DHC, DC, MC
				13,198 - 13,220	
Hole Size	Casing & Tubing Size	Depth Set	Seals Cement		

VI. Well Test Data

Date New Oil	Gas Delivery Date	Test Date	Test Length	Tbg. Pressure	Cog. Pressure
Choke Size	Oil	Water	Gas	AOP	Test Method

I hereby certify that the rules of the Oil Conservation Division have been complied with and that the information given above is true and complete to the best of my knowledge and belief.

Signature: 
Printed name: James E. Cauthen

Title: President

Date: 10/22/97 Phone: 915-686-9390

OIL CONSERVATION DIVISION

Approved by: ORIGINAL SIGNED BY CHRIS WILLIAMS
DISTRICT I SUPERVISOR

Title:

Approval Date:

10-27-1993

* If this is a change of operator fill in the OGRID number and name of the previous operator

Previous Operator Signature

Printed Name

Title

Date

Submit 3 Copies
to Appropriate
District Office

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-103
Revised 1-1-89

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

OIL CONSERVATION DIVISION

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

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

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

WELL API NO.

30-025-29787

5. Indicate Type of Lease

STATE ☐

FEE ☒

6. State Oil & Gas Lease No.

SUNDRY NOTICES AND REPORTS ON WELLS
(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A
DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT"
(FORM C-101) FOR SUCH PROPOSALS.)

7. Lease Name or Unit Agreement Name

Benson

1. Type of Well:

oil
well ☒

gas
well ☐

OTHER

2. Name of Operator

Lone Star Oil & Gas

8. Well No.

1

3. Address of Operator

P.O. Box 2735, Midland, TX 79702

9. Pool name or Wildcat

North Knowles Devonian

4. Well Location

Unit Letter P : 330 Feet From The South Line and 990 Feet From The East Line

Section 14

Township

16-S

Range

38-E

NMPM

Lea

County

10. Elevation (Show whether DF, RKB, RT, GR, etc.)

3718 KB

11.

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

NOTICE OF INTENTION TO:

PERFORM REMEDIAL WORK ☐

PLUG AND ABANDON ☐

TEMPORARILY ABANDON ☐

CHANGE PLANS ☐

PULL OR ALTER CASING ☐

OTHER: Complete ☒

SUBSEQUENT REPORT OF:

REMEDIAL WORK ☐

ALTERING CASING ☐

COMMENCE DRILLING OPNS. ☐

PLUG AND ABANDONMENT ☐

CASING TEST AND CEMENT JOB ☐

OTHER: ☒

12. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work) SEE RULE 1103.

The Benson #1 was re-entered on 7/30/97. The kickoff point of 9500' was reached on 8/12/97. The borehole was deviated in a North-easterly direction to a BHL approximately 810' North and 270' East of the surface location at TD of 13,251'. Production casing (5-1/2") was set at 13,194'. At this time we are WOCU and stimulation procedures.

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

SIGNATURE

TITLE

Vice-President

DATE 10/9/97

TYPE OR PRINT NAME

Mark L. Branum

915-686-9390
TELEPHONE NO.

(This space for State Use)

ORIGINAL SIGNED BY CHRIS WILLIAMS

DISTRICT I SUPERVISOR

TITLE

DATE

EB 05 1998

PATTERSON DRILLING COMPANY
P. O. DRAWER 1416
SNYDER, TEXAS 79550
915/573-1104

RECEIVED OCT - 2 1997

TO: LONE STAR OIL & GAS
P. O. BOX 1735
MIDLAND, TX 79702

RIG NO. 75
LEASE BENSON (RE-ENTRY)
WELL NO. 1
LOCATION SEC 14, T-16-S
R-38-87
COUNTY LEA, NEW MEXICO

THE FOLLOWING SURVEYS WERE RAN ON THE ABOVE LEASE.

DEPTH	DEGREE	DEPTH	DEGREE	DEPTH	DEGREE
6131	1 1/2	10382	13.2		
6161	2	10504	15 3/4		
6227	1 1/4	10600	15 1/4		
6290	1 1/2	10728	16 1/2		
6389	1 3/4	10857	17 1/4		
6481	1 3/4	10985	17 1/4		
6964	1 3/4	11112	17 1/4		
7447	1 1/2	11300	16		
7925	3/4	11488	12		
8405	1/2	11583	10 1/2		
8794	1	11657	9 4/5		
9106	1	11752	11		
9266	1/4	11845	12 1/3		
9612	1 1/2	12215	13 1/2		
9644	2 1/9	12340	13 1/2		
9901	6 1/5	12528	10 1/2		
9997	7	12734	11 1/5		
10094	8 1/4	12828	13		
10190	10 1/5	13017	14 4/5		

Sur: 330/S & 990/E
BHL: 1093/S & 721/E
30-025-29787

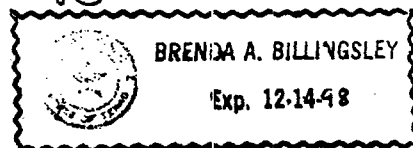
PATTERSON DRILLING COMPANY

BY David Cain
DAVID CAIN

SUBSCRIBED AND SWORN TO BEFORE ME THIS 23rd DAY OF Sept 1997

Brenda A. Billingsley
NOTARY PUBLIC

MY COMMISSION EXPIRES 12-14-98 SCURRY COUNTY, TEXAS



SURVEY DATA

14-SEP-1997

06:06:07

BENSON

MEASURED DEPTH	ANGLE DEG	DIRECTION DEG	VERTICAL DEPTH	LATITUDE FEET	DEPARTURE FEET	VERTICAL SECTION	DOG LEG
9446.00	0.57	32.77	9445.19	40.81 N	27.39 E	47.98	0.00
9557.00	1.00	35.00	9556.18	42.07 N	28.24 E	49.46	0.39
9652.00	2.00	43.00	9651.15	43.96 N	29.85 E	51.80	1.07
9747.00	3.50	35.00	9746.03	47.55 N	32.65 E	56.16	1.63
9842.00	5.25	27.00	9840.75	53.80 N	36.28 E	63.31	1.95
9937.00	6.50	23.00	9935.25	62.62 N	40.36 E	73.01	1.38
10032.00	7.50	24.00	10029.54	73.23 N	44.98 E	84.57	1.06
10127.00	9.25	25.00	10123.53	85.82 N	50.73 E	98.39	1.85
10222.00	10.75	18.00	10217.09	101.17 N	56.69 E	114.86	2.03
10317.00	12.50	16.00	10310.13	119.48 N	62.27 E	133.94	1.89
10412.00	14.50	15.00	10402.50	140.85 N	68.18 E	156.00	2.12
10507.00	15.75	14.00	10494.21	164.85 N	74.38 E	180.61	1.34
10602.00	15.00	13.00	10585.81	189.34 N	80.26 E	205.56	0.84
10697.00	16.25	12.00	10677.30	214.32 N	85.79 E	230.84	1.35
10792.00	16.75	11.00	10768.39	240.76 N	91.17 E	257.43	0.61
10887.00	17.25	10.00	10859.24	268.07 N	96.22 E	284.71	0.61
10982.00	17.25	9.00	10949.96	295.85 N	100.87 E	312.28	0.31
11077.00	17.25	8.00	11040.69	323.71 N	105.04 E	339.75	0.31
11172.00	17.00	9.00	11131.48	351.38 N	109.17 E	367.02	0.41
11267.00	16.00	10.00	11222.57	377.99 N	113.62 E	393.43	1.09
11362.00	15.00	12.00	11314.11	402.91 N	118.45 E	418.40	1.19
11457.00	13.50	14.00	11406.18	425.70 N	123.68 E	441.53	1.66
11552.00	11.75	15.00	11498.88	445.80 N	128.87 E	462.14	1.86
11647.00	10.00	14.00	11592.17	463.15 N	133.37 E	479.94	1.85
11742.00	11.00	8.00	11685.59	480.13 N	136.63 E	496.94	1.56
11837.00	11.75	14.00	11778.72	498.49 N	140.23 E	515.35	1.47
11932.00	13.00	15.00	11871.51	518.20 N	145.33 E	535.57	1.33
12027.00	14.50	18.00	11963.79	539.83 N	151.78 E	558.06	1.75
12122.00	14.00	19.00	12055.87	562.01 N	159.19 E	581.42	0.59
12217.00	13.50	20.00	12148.14	583.29 N	166.73 E	603.99	0.58
12312.00	13.50	25.00	12240.52	603.76 N	175.21 E	626.14	1.23
12407.00	11.75	27.00	12333.22	622.43 N	184.28 E	646.83	1.90
12502.00	10.00	29.00	12426.51	638.27 N	192.67 E	664.63	1.88
12597.00	10.50	31.00	12520.00	652.90 N	201.13 E	681.34	0.65
12692.00	11.00	33.00	12613.33	667.92 N	210.53 E	698.75	0.66
12787.00	12.75	35.00	12706.29	684.11 N	221.48 E	717.81	1.89
12882.00	14.50	33.00	12798.62	702.67 N	233.97 E	739.65	1.91
12977.00	15.50	30.00	12890.38	723.64 N	246.79 E	763.84	1.33
13072.00	13.75	30.00	12982.30	744.42 N	258.79 E	787.56	1.84
13167.00	12.00	30.00	13074.91	762.75 N	269.37 E	808.48	1.84

THE DOGLEG SEVERITY IS IN DEGREES PER 100 FEET
 THE VERTICAL SECTION WAS COMPUTED ALONG 21.32°

BASED UPON MINIMUM CURVATURE TYPE CALCULATIONS. THE BOTTOM HOLE
 DISPLACEMENT IS 808.91 FEET IN THE DIRECTION OF 19.45°

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

Operator Name and Address: Lone Star Oil & Gas, Inc. P.O. Box 2735 Midland, TX 79702		OGRID Number 161485
Property Name J. Benson		API Number 30-025-29787
Property Code 21090	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

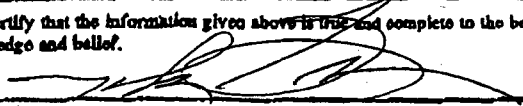
Hole Size	Casing Size	Casing weight/foot	Setting Depth	Sacks of Cement	Estimated TOC
17-1/4"	13-3/8"	54.5	319'	430	Surface
12-1/4"	9-5/8"	40.0	5017'	2015	Surface
8-3/4"	5-1/2"	20.0	13100'	See Attached Report	

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.

Permit Expires 1 Year From Approval
Date Unless Drilling Underway

Re-Entry

I hereby certify that the information given above is true and complete to the best of my knowledge and belief. Signature: 		OIL CONSERVATION DIVISION	
Printed name: Mark L. Branum		Approved by: ORIGINAL SIGNED BY GARY WINK	
Title: Vice-President		Title: FIELD REP. II	
Date: 6-17-97		Approval Date: 17 1997	
Phone: 915-686-9390		Expiration Date:	
		Conditions of Approval: Attached ☐	

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)

$$13100 \text{ ft} * 0.0238 \text{ bbl}/\text{ft} = 311.80 \text{ bbls}$$

$$= 311.80 \text{ bbls}$$

DISPLACEMENT VOLUME TO SHOE JOINT:

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

District I
PO Box 1988, Hobbs, NM 88241-1988
District II
611 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	¹ Pool Code 36330	¹ Pool Name North Knowles - Devonian
⁴ Property Code 21090	⁴ Property Name J. Benson	⁴ Well Number 1
¹ OGRID No. 161485	¹ Operator Name Lone Star Oil & Gas, Inc.	¹ Elevation 3698'

¹⁰ Surface Location

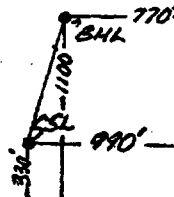
UL or lot no.	Section	Township	Range	Lot Ida	Feet from the	North/South line	Feet from the	East/West line	County
P	14	16-S	38-E		330	South	990	East	Lea

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 80	¹² Joint or Infill N	¹² Consolidation Code	¹² Order No.						

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





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.

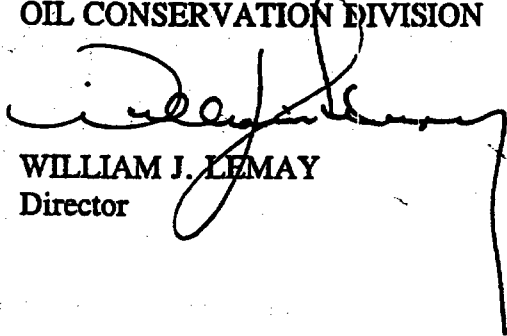
(4) The operator shall comply with all requirements and conditions set forth in Division General Rule 111.E(2) and any applicable requirements in 111.D and F and Division Order No. R-8451, as amended.

(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 /



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

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

[illegible]

District I
PO Box 1990, Hobbs, NM 88241-1990
District II
811 South First, Artesia, NM 88210
District III
1000 Rio Brason Rd., Amitee, 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, 1994
Instructions on back
Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 1 Copy

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API 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

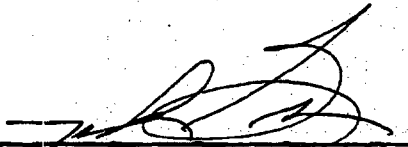
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
P	14	16-S	38-E		330	South	990	East	Lea

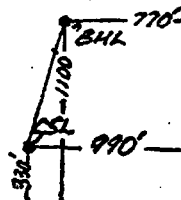
¹¹ Bottom Hole Location If Different From Surface

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

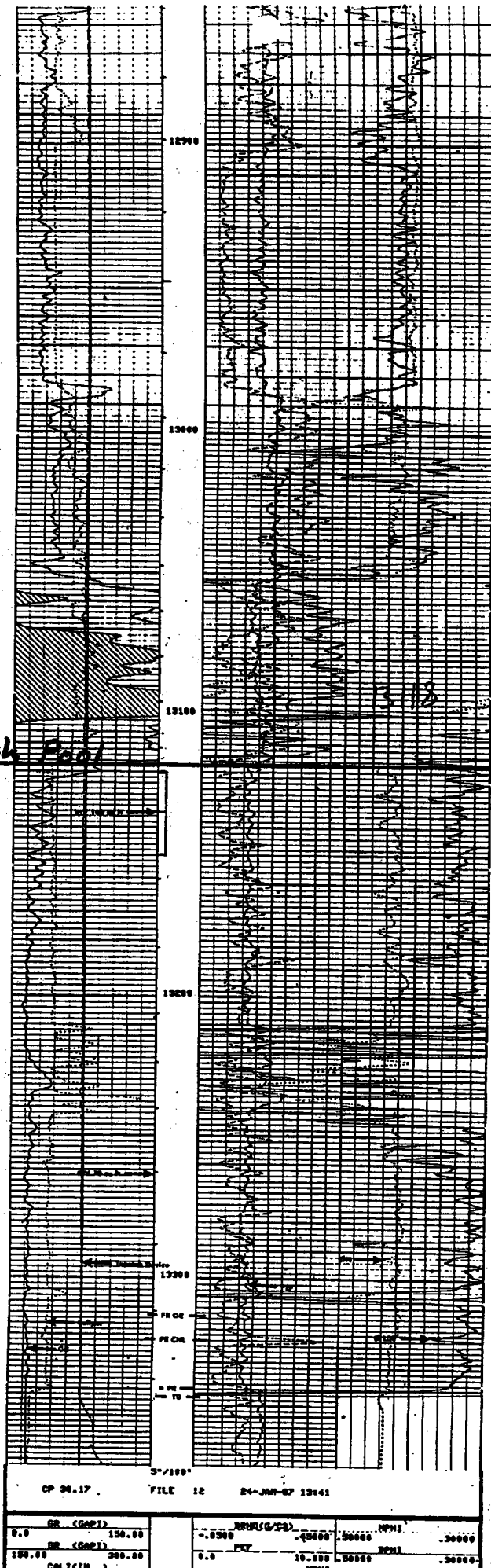
¹² Dedicated Acres 80	¹³ Joint or Infill N	¹⁴ Consolidation Code	¹⁵ Order No.
-------------------------------------	------------------------------------	----------------------------------	-------------------------

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

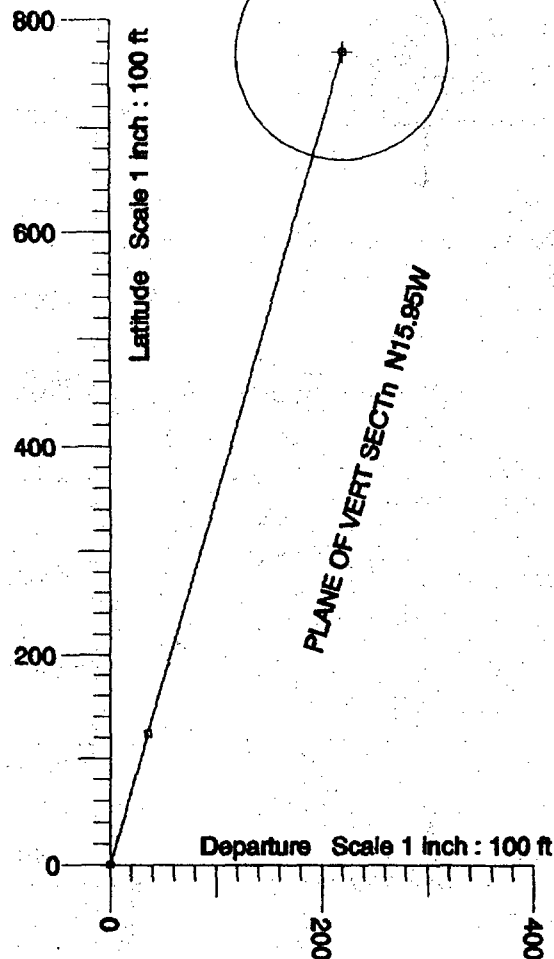
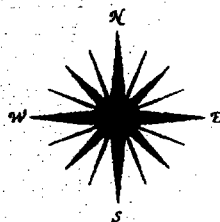
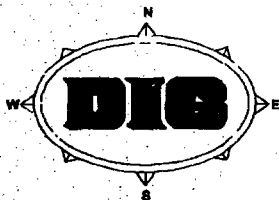
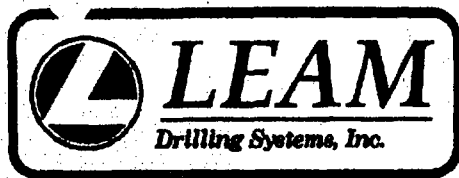
16					¹⁷ OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.  Signature _____ Printed Name Mark L. Branum Title Vice-President Date 6-17-97 State
					¹⁸ SURVEYOR CERTIFICATION I hereby certify that the well location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



OP Knowles Devonian North Pool



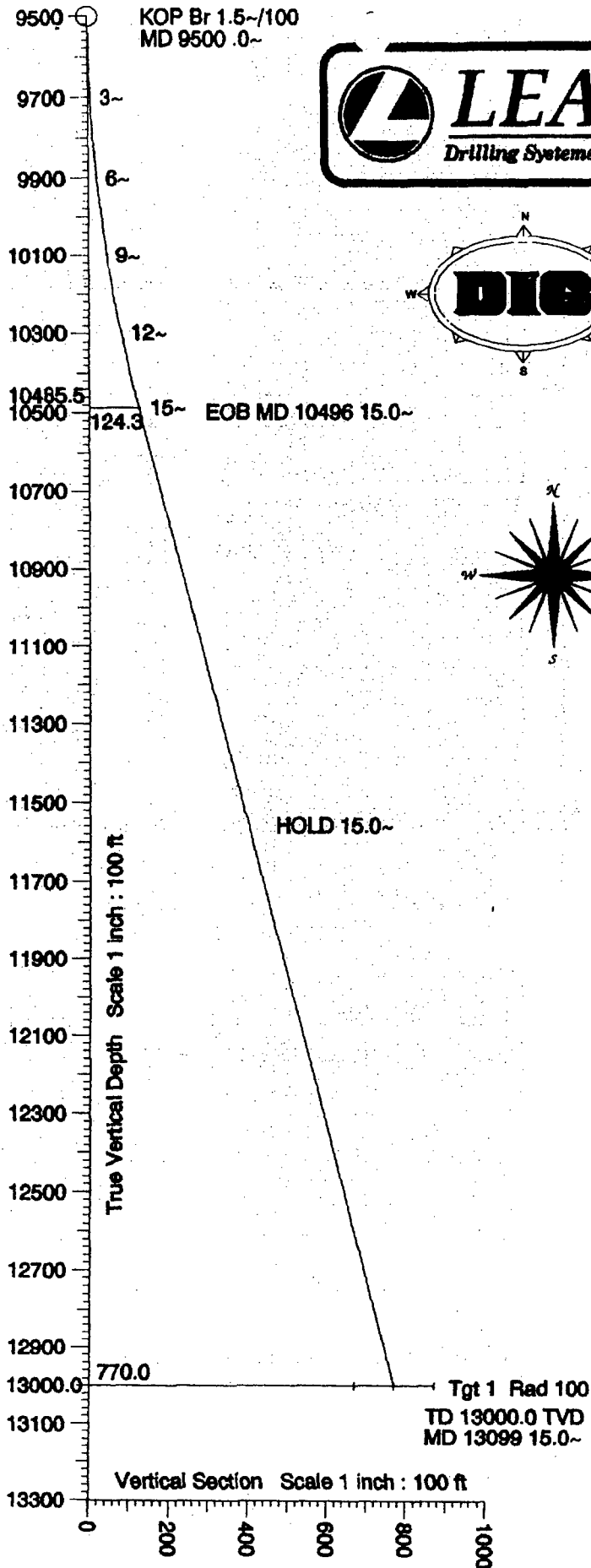
KOP Br 1.5~/100
MD 9500.0~



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



**REENTRY & DRILLING PROGNOSIS
LONE STAR OIL & GAS
BENSON #1**

1. Repair road and location as necessary, dig reserve pit, line reserve pit and dig out surface casing with backhoe.
2. Drill rat, mouse, necessary septic holes and top cement plug with rathole machine.
3. Weld on 13-3/8" sow x 13-5/8" 3M csg. head, set slips on 9-5/8" csg. and install 13-5/8" 3M x 11" 3M spool.
4. Move in and rig up drilling rig.
5. Drill out cement plugs @ 270', 2500', 4070' and dress plug @ 6277' to +/-6300'.
6. Run gyro survey from 6300' to surface to determine BHL.
7. Spot +/-200 sx of Class "H" cement mixed @ 17.5 - 18.0 ppg. from 6300' to 6050'.
8. Dress cement plug to +/-6100'.
9. Run 6-1/2" high speed mud motor and diamond bit to sidetrack wellbore.
10. Drill 8-3/4" hole to +/-9500' with conventional drilling assembly and a monel drill collar. Take singleshot surveys to determine BHL.
11. Begin mud up of fresh water mud system @ +/-9000'. Maintain weight @ 8.6 - 9.0 ppg. 36 - 40 vis. and 12 - 15 cc. water loss.
12. At +/-9500', run 6-1/2" slow speed mud motor and steering tool. Build angle at 1-1/2 deg./100' to 14 deg. in a north direction. The end of the build section will be +/-10,400'. Hold 14 deg. angle to TD at 13,000' TVD for 750' displacement. Monitor angle and direction with singleshot surveys.
13. Run steerable system and steering tool should any angle or direction corrections have to be made.
14. Run DST to evaluate the Devonian.
15. Run GR-OIL log.



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

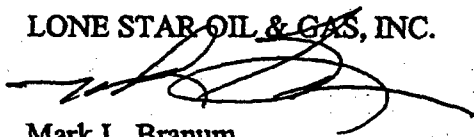
Gentlemen:

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

July 18, 1997

Ms. Donna Pitzer
State of New Mexico
Energy and Minerals Department
Oil Conservation Division
P.O. Box 1980
Hobbs, New Mexico 88240

Re: Marathon Oil Company
Benson #1,
Section 14, T-16-S, R-38-E,
Lea County, New Mexico

Dear Ms. Pitzer:

We met with your field representative, Mr. Gary Wink, to appraise the clean-up and restoration that Marathon Oil Company had not completed upon plugging and abandoning the referenced well.

Lone Star Oil & Gas is the current Lessee of the subject oil and gas lease and we hereby agree to assume Marathon Oil Company's liability to properly restore this location. According to Mr. Wink, clean-up and restoration entailed leveling the tank battery pad and cleaning up pieces of reserve pit liner.

Very truly yours,

James E. Cauthen

JC/mac

Submit 3 Copies
to Appropriate
District Office

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-103
Revised 1-1-89

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

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

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

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

WELL API NO. 30-025-29787
5. Indicate Type of Lease STATE ☐ FEE ☒
6. State Oil & Gas Lease No. 044198
7. Lease Name or Unit Agreement Name J. BENSON
8. Well No. 1
9. Pool name or Wildcat North Knowles-Devonian

SUNDRY NOTICES AND REPORTS ON WELLS (DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)	
1. Type of Well: OIL WELL ☒ GAS WELL ☐ OTHER ☐	
2. Name of Operator Marathon Oil Company	
3. Address of Operator P.O. Box 552 Midland, Tx. 79702	
4. Well Location Unit Letter <u>P</u> : <u>330</u> Feet From The <u>South</u> Line and <u>990</u> Feet From The <u>East</u> Line Section <u>14</u> Township <u>16-S</u> Range <u>38-E</u> NMPM LEA County	
10. Elevation (Show whether DF, RKB, RT, GR, etc.) GL: 3698 DF: 3722.4 KB: 3723.4	

11. Check Appropriate Box to Indicate Nature of Notice, Report, or Other Data	
NOTICE OF INTENTION TO:	SUBSEQUENT REPORT OF:
PERFORM REMEDIAL WORK ☐	REMEDIAL WORK ☐
TEMPORARILY ABANDON ☐	ALTERING CASING ☐
PULL OR ALTER CASING ☐	COMMENCE DRILLING OPNS. ☐
OTHER: ☐	PLUG AND ABANDONMENT ☒
	CASING TEST AND CEMENT JOB ☐
	OTHER: ☐

12. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work) SEE RULE 1103.

11/20/93 MIRU

12/1/93 Release Packer - Load hole w/10# Brine, POH w/tubing & remove packer- GIH w/tubing to 9700'.

12/2/93 Mix & pump 45 sx cement @ 9700', WOC 4 hrs. Tag plug @ 9494'. Pump 24 BBL Mud- Pull Tbg to 8381. Mix & pump 40 sx cement.

12/6/93 Tubing stuck - Cut tbg @ 6723' - Did not come.

12/7/93 Cut tbg @ 6718'. POH.

12/9/93 Cut 5½ csg. @ 6350'. POH w/csg.

12/13/93 Run tbg. to 6402 - Pump 140 sx cement. WOC.

12/14/93 Tag cement @ 6069. Pumped 130 BBL Mud.

12/15/93 Finish loading hole w/mud. Pull tbg. to 5070' - Pump 75 sx cement. WOC.

12/16/93 Tag plug @ 4865' - Pull tbg to 2605'. Pump 55 sx cement. Pull tbg to 376'. Pump 55 sx cement. Pull tbg to 60'. Pump 25 sx cement. Cap well. Install Dry Hole Marker. Clean location. Rig down. Move.

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

SIGNATURE Chris Ball TITLE Owner DATE 1-20-94

TYPE OR PRINT NAME Chris Ball, Ball Oilfield Service TELEPHONE NO. 817-629-8563

(This space for State Use) ORIGINAL SIGNED BY GARY WINK REP. II REP. II

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

JUL 17 1997

**MEXICO OIL CONSERVATION COMMISSION
WELL LOCATION AND ACREAGE DEDICATION PLAT**

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

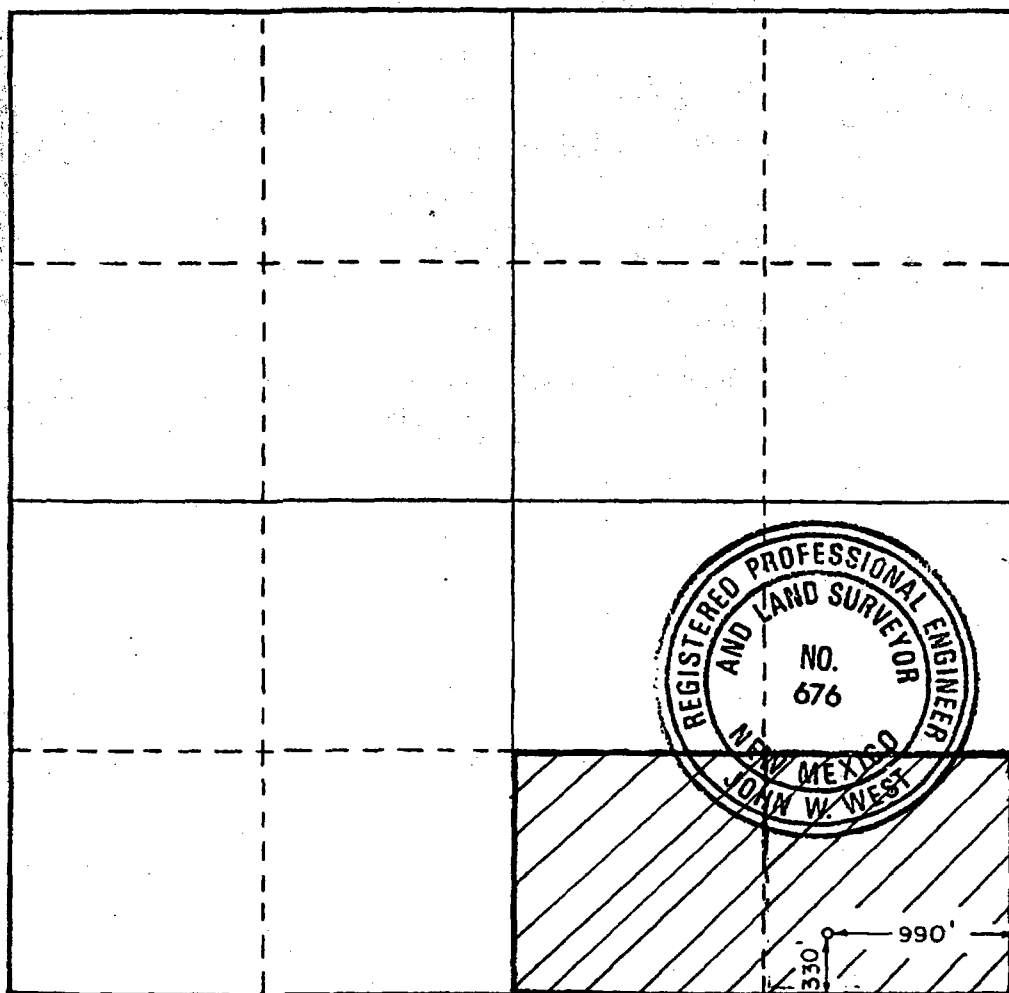
All distances must be from the outer boundaries of the Section

Operator MARATHON OIL CO.			Lease BENSON		Well No. 1
Unit Letter P	Section 14	Township 16S	Range 38E	County LEA	
Actual Footage Location of Well:					
990	feet from the	EAST	line and	330	feet from the SOUTH line
Ground Level Elev. 3698.0	Producing Formation Devonian		Pool North Knowles-Devonian		Dedicated Acreage: 80 Acres

1. Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below.
2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
3. If more than one lease of different ownership is dedicated to the well, have the interests of all owners been consolidated by communitization, unitization, force-pooling, etc?
☐ Yes ☐ No If answer is "yes," type of consolidation _____

If answer is "no," list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if necessary.) _____

No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, forced-pooling, or otherwise) or until a non-standard unit, eliminating such interests, has been approved by the Commission.



CERTIFICATION

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

Allen S. Wilson

Name
Allen S. Wilson

Position
Production Engineer

Company
Marathon Oil Co.

Date
September 28, 1987

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 knowledge and belief.

Date Surveyed
OCTOBER 28, 1986

Registered Professional Engineer and/or Land Surveyor

John W. West

Certificate No. **JOHN W. WEST, 676**
RONALD J. EIDSON, 3239

Submit 3 Copies
to Appropriate
District Office

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-103
Revised 1-1-89

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

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

DISTRICT III
1000 Elv Brazos Rd., Aztec, NM 87410

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

WELL API NO.
30-025-29787

5. Indicate Type of Lease
STATE ☐ FEE ☒

6. State Oil & Gas Lease No.
044198

SUNDRY NOTICES AND REPORTS ON WELLS
(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A
DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT"
(FORM C-101) FOR SUCH PROPOSALS.)

7. Lease Name or Unit Agreement Name
J. BENSON

1. Type of Well:
OIL WELL ☒ GAS WELL ☐ OTHER

2. Name of Operator
Marathon Oil Company

8. Well No.
1

3. Address of Operator
P.O. Box 552 Midland, Tx. 79702

9. Pool name or Wildcat
NORTH KNOWLES-DEVONIAN

4. Well Location
Unit Letter P : 330 Feet From The SOUTH Line and 990 Feet From The EAST Line

Section 14 Township 16-S Range 38-E NMPM LEA County

10. Elevation (Show whether DP, RKB, RT, GR, etc.)

GL:3698 DF:3722.4 KB:3723.4

11. Check Appropriate Box to Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

PERFORM REMEDIAL WORK ☐

PLUG AND ABANDON ☒

TEMPORARILY ABANDON ☐

CHANGE PLANS ☒

PULL OR ALTER CASING ☐

OTHER: ☐

SUBSEQUENT REPORT OF:

REMEDIAL WORK ☐ ALTERING CASING ☐

COMMENCE DRILLING OPNS. ☐ PLUG AND ABANDONMENT ☐

CASING TEST AND CEMENT JOB ☐

OTHER: ☐

12. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work) SEE RULE 1103.

MARATHON OIL PROPOSES TO P&A THIS WELL USING THE PROCEDURE OUTLINED BELOW.
TEST ANCHORS. MRUPU. INSTALL AND TEST BOP. SET CIBP @ 9,700'. DUMP 5 SX CMT ON TOP OF PLUG. LOAD HOLE
WITH 10#/GALLON BRINE WITH 25#/Bbl GEL.
SET BALANCED PLUG 8270-8370 + 50% EXCESS. TAG PLUG
CUT CASING @ FREEPOINT (ESTIMATED @ 7200') PULL CASING SET BALANCED PLUG 50' ABOVE AND BELOW CUT OFF +
100% EXCESS. TAG PLUG.
SET BALANCED PLUG 6277-6377 + 100% EXCESS. TAG PLUG
SET BALANCED PLUG 4070-5070 + 100% EXCESS. TAG PLUG
SET BALANCED PLUG 2500-2800 + 50% EXCESS. TAG PLUG
SET BALANCED PLUG 270-370 + 50% EXCESS. TAG PLUG
SET PLUG SURF TO 50'. CUT OFF CSG 3' BELOW GROUND LEVEL. INSTALL DRY HOLE MARKER. RDMO. CLEAN AND
LEVEL LOCATION

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

SIGNATURE Thomas M. Price

TITLE ADVANCED ENG. TECH

DATE 4-13-93

TYPE OR PRINT NAME THOMAS M. PRICE

TELEPHONE NO. 800-351-1417

(This space for State Use)

Orig. Signed by
Paul Kautz
Geologist

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

THE COMMISSION MUST BE NOTIFIED 24
HOURS PRIOR TO THE BEGINNING OF
DRILLING OPERATIONS FOR THE CIBP
TO BE APPROVED.

APR 29 1993

MARATHON OIL CO.

PROPOSED P : A
J. BENSON # 1
API # 30-025-29787
N.M. LS # 044198
FEE WELL

UNIT LETTER "P" 330' FSL & 990' FEL
SEC. 14, TWP -16-S, RNG-38-E
LEA, CO. NEW MEXICO

ELEVATIONS: GL: 3698' KB: 3723.4'
TD: 13,345' PBD: 13,251'

SURFACE CASING: 13 3/8", 54.5#, K-55, ST&C
8 RD, RNG 3, @ 319'. KBM. CMT W/ 355 SX
DID NOT CIRC. 75 SX THRU 1' TBG. CIRC 10 SX TO
PIT.

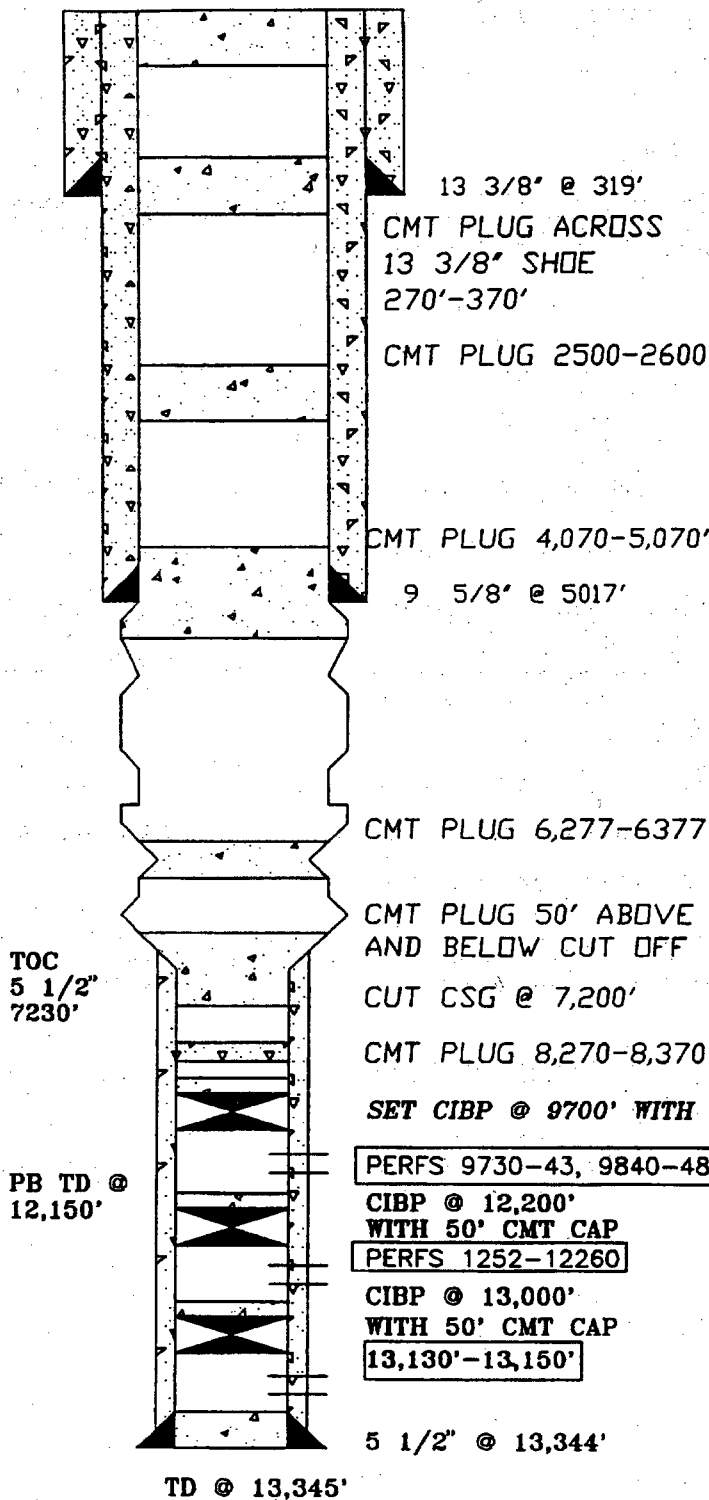
INTERMEDIATE CSG: 9 5/8", 36# & 40#, K-55 &
N-80, ST&C & LT&C, 8 RD, RNG 3, @ 5017'. CMT
WITH 1765 SX PACESETTER LITE & 250 SX CLASS H
CIRC 25 SX TO PIT

PRODUCTION CSG: 5 1/2" 20# & 17#, N-80, LT&C,
8RD, RNG 3, @ 13,344'. CMT W/1800 SX, CLASS H
50-50 PDZ-MIX. TOC @ 7230' BY BOND LOG

NO RODS OR TUBING IN HOLE

HISTORY: SPUD DATE 11-16-87
DRLD TO TD 13,345'. RAN GL-DDL, LDT-CNL
BHC-SONIC. 13,345-5,013'. RAN PRODUCTION CASING
1-30-87

***NOTE: ALL SPACE BETWEEN
CMT PLUGS TO BE FILLED
WITH 10# PER GALLON BRINE
WITH 25# PER BARREL GEL**



MARATHON OIL CO.

J. BENSON # 1
API # 30-025-29787
N.M. LS # 044198
FEE WELL

UNIT LETTER "P" 330' FSL & 990' FEL

SEC. 14, TWP -16-S, RNG-38-E
LEA, CO. NEW MEXICO

ELEVATIONS: GL: 3698' KB: 3723.4'

TD @ 13,345' PBD @ 12,150

SURFACE CASING: 13 3/8", 54.5#, K-55, ST&C
8 RD, RNG 3, @ 319'. KBM. CMT W/ 355 SX
DID NOT CIRC. 75 SX THRU 1" TBG. CIRC 10 SX TO
PIT.

INTERMEDIATE CSG: 9 5/8" , 36# & 40#, K-55 &
N-80, ST&C & LT&C, 8 RD, RNG 3, @ 5017'. CMT
WITH 1765 SX PACESETTER LITE & 250 SX CLASS H
CIRC 25 SX TO PIT

PRODUCTION CSG: 5 1/2" 20# & 17#, N-80, LT&C,
8RD, RNG 3, @ 13,344'. CMT W/1800 SX CLASS H
50-50 POZ-MIX. TOC @ 7230' BY BOND LOG

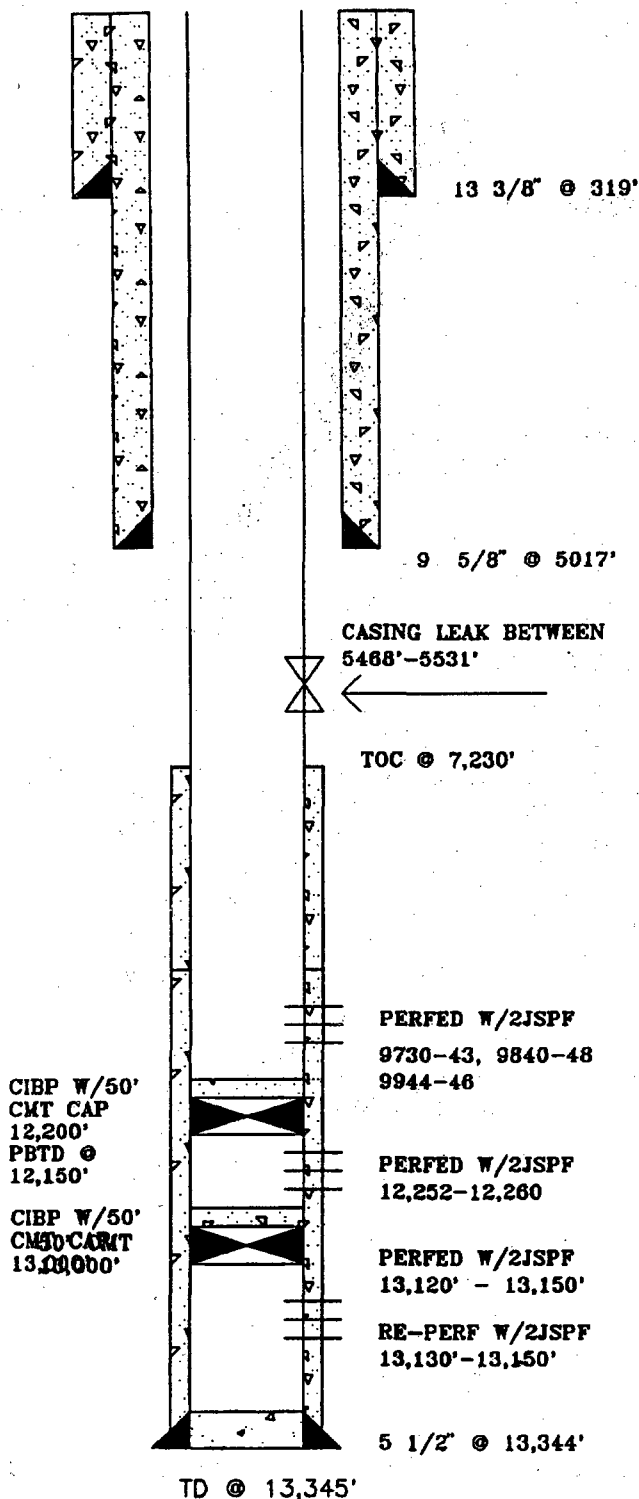
NO RODS OR TUBING IN HOLE

HISTORY: SPUD DATE 11-16-87
DRLD TO TD 13,345'. RAN GL-DDL, LDT-CNL
BHC-SONIC. 13,345'-5,013'. RAN PRODUCTION CASING
1-30-87

CO TO PBD 13,251'. PERFED W/2JSPF 13,120-13,150
ACIDIZED WITH 6500 GALLONS 15% HEFE HCL.
RE-PERF 13,130-13,150 W/2JSPF. ACIDIZED WITH
30,000 GALLONS GELLED 20% HCL USING 120 BALL
SEALERS. INSTALLED PRODUCTIONS EQUIP
AND TURNED TO TEST.

1992 WELL DEVELOPED CSG LEAK. REMOVED ALL
RODS & TUBING AFTER PUMPING UNDER PKR TO TEST

3-93: SET CIBP @ 13,000'. DUMPED 50' CMT ON TOP OF PLUG.
ISOLATE CSG LEAK 5,468'-5,531'. PUMPED INTO LEAK @ 350
PSIG. PERFED CHESTER 12,252-12,260 WITH 2 JSPF. TRIED
TO BREAK DOWN WITH 15% HCL BUT WOULD NOT BREAK.
WENT TO 8000 PSI 2 TIMES. SET CIBP @ 12,200'.
DUMPED 50' CMT. NEW PBD @ 12,150'. PERFED WOLFCAMP
9730-43, 9840-48, 9944-46 WITH 2 JSPF. 49 HOLES. ACIDIZED
WITH 5000 GALLONS 15% HCL. SWABBED WELL. SWABBED
10% OIL. PUT WELL ON ROD PUMP. RDMO



Submit 3 Copies
to Appropriate
District Office

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-103
Revised 1-1-89

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

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

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

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

WELL API NO. 30-025-29787	
5. Indicate Type of Lease STATE ☐ FEE ☒	
6. State Oil & Gas Lease No. 044198	
7. Lease Name or Unit Agreement Name J. BENSON	
8. Well No. 1	
9. Pool name or Wildcat NORTH KNOWLES-DEVONIAN	
10. Elevation (Show whether DF, RKB, RT, GR, etc.) GL:3698 DF:3722.4 KB:3723.4	

SUNDRY NOTICES AND REPORTS ON WELLS
(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A
DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT"
(FORM C-101) FOR SUCH PROPOSALS.)

1. Type of Well: OIL WELL ☒ GAS WELL ☐ OTHER	
2. Name of Operator Marathon Oil Company	
3. Address of Operator P.O. Box 552 Midland, Tx. 79702	
4. Well Location Unit Letter P : 330 Feet From The SOUTH Line and 990 Feet From The EAST Line Section 14 Township 16-S Range 38-E NMPM LEA County	
10. Elevation (Show whether DF, RKB, RT, GR, etc.) GL:3698 DF:3722.4 KB:3723.4	

11. Check Appropriate Box to Indicate Nature of Notice, Report, or Other Data	
NOTICE OF INTENTION TO:	
PERFORM REMEDIAL WORK ☐	PLUG AND ABANDON ☐
TEMPORARILY ABANDON ☐	CHANGE PLANS ☐
PULL OR ALTER CASING ☐	OTHER: ☐
SUBSEQUENT REPORT OF:	
REMEDIAL WORK ☐	ALTERING CASING ☐
COMMENCE DRILLING OPNS. ☐	PLUG AND ABANDONMENT ☐
CASING TEST AND CEMENT JOB ☐	OTHER: ATTEMPTED RECOMPLETION ☒

12. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work) SEE RULE 1103.

Marathon Oil Co. recently completed workover operations on this well. The work is detailed on the attached history. The work was not succesful and plans are being made to P&A the well.

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

SIGNATURE Thomas M. Price TITLE ADVANCED ENG. TECH DATE 4-13-93

TYPE OR PRINT NAME THOMAS M. PRICE TELEPHONE NO. 800-351-1417

(This space for State Use)

Orig. Signed By
Paul Kautz
Geologist

APPROVED BY _____ TITLE _____ DATE APR 22 1993

CONDITIONS OF APPROVAL, IF ANY:



STATE OF NEW MEXICO
ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION
HOBBS DISTRICT OFFICE

March 3, 1993

BRUCE KING
GOVERNOR

POST OFFICE BOX 1980
HOBBS, NEW MEXICO 88241-1980
(505) 393-6161

Marathon Oil Company
P.O. Box 552
Midland, TX 79702

Attn: Tom Price

Re: Benson #1
Unit P, Sec. 14, T16S, R38E

Gentlemen:

We have approved your intent to test the Chester and Wolfcamp formations in the above-referenced well. Should these zones prove to be productive you will need to file the appropriate forms, such as acreage dedication plat, etc.

It is assumed that if these zones are non-productive you will continue with the previously approved intent to plug.

Very truly yours,

OIL CONSERVATION DIVISION

Jerry Sexton
Supervisor, Dist



Submit to Appropriate
District Office
State Lease - 6 copies
Fee Lease - 5 copies

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-101
Revised 1-1-89

OIL CONSERVATION DIVISION

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

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

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

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

API NO. (assigned by OCD on New Wells)
30-025-29787

5. Indicate Type of Lease
STATE ☐ FEE ☒

6. State Oil & Gas Lease No.
044198

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. Type of Work:

DRILL ☐ RE-ENTER ☒ DEEPEN ☐ PLUG BACK ☒

b. Type of Well:

OIL WELL ☒ GAS WELL ☐ OTHER ☐ SINGLE ZONE ☐ MULTIPLE ZONE ☒

2. Name of Operator

Marathon Oil Company

8. Well No.

1

3. Address of Operator

P.O. Box 552 Midland, Tx. 79702

9. Pool name or Wildcat

N. KNOWLES

4. Well Location

Unit Letter P : 330 Feet From The SOUTH Line and 990 Feet From The EAST Line

Section 14

Township 16S

Range 38E

NMPM LEA

County

10. Proposed Depth

12,965

11. Formation

CHESTER/WOLFCMP

12. Rotary or C.T.

13. Elevations (Show whether DF, RT, GR, etc.)

GL:3698 KB:3723.4

14. Kind & Status Plug. Bond

BLANKET

15. Drilling Contractor

16. Approx. Date Work will start

UPON APPROVAL

17.

PROPOSED CASING AND CEMENT PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	SACKS OF CEMENT	EST. TOP
	13 3/8"	54.5	319	430	SURF
	9 5/8"	36 & 40	5,017	2115	SURF
	5 1/2"	17 & 20	13,344	1,800	7,230

MARATHON OIL CO. IS PROPOSING TO TEST THE CHESTER AND WOLFCAMP ZONES IN THIS WELL USING THE PROCEDURE SUMMARIZED BELOW.

MIRU. SET CBP WITH 5 SK SMT CAP @ 13,000'. PERFORATE CHESTER 12,252-12,260, WITH 2 JSPF. STIMULATE PER SERVICE CO. RECOMMENDATION. SWAB TEST. SET RBP @ 9,990' PERF WOLFCAMP 9,730-43, 9840-48, 9,944-46 WITH 2 JSPF. STIMULATE PER SERVICE CO. RECOMMENDATION. SWAB TEST WOLFCAMP. POOH WITH RBP. RDMO.

**NOTE: EVALUATION OF SWAB TESTS WILL DETERMINE FUTURE WORK.

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: IF PROPOSAL IS TO DEEPEN OR PLUG BACK, GIVE DATA ON PRESENT PRODUCTIVE ZONE AND PROPOSED NEW PRODUCTIVE ZONE. GIVE BLOWOUT PREVENTER PROGRAM, IF ANY.

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

SIGNATURE

Thomas M. Price

TITLE

ADVANCED ENGINEERING TECH.

DATE

3-1-93

TYPE OR PRINT NAME THOMAS M. PRICE

TELEPHONE NO. 915/682/162

(This space for State Use)

ORIGINAL SIGNED BY JERRY SEXTON

DISTRICT I SUPERVISOR

APPROVED BY

TITLE

DATE

MAR 04 1993

CONDITIONS OF APPROVAL, IF ANY:

Submit 3 Copies
to Appropriate
District Office

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-103
Revised 1-1-89

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

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

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

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

WELL API NO. 30-025-29787
5. Indicate Type of Lease STATE ☐ FEE ☒
6. State Oil & Gas Lease No. 044198
7. Lease Name or Unit Agreement Name BENSON
8. Well No. 1
9. Pool name or Wildcat NORTH KNOWLES-DEVONIAN
10. Elevation (Show whether DP, RKB, RT, GR, etc.) GL:3698 DF:3722.4 KB:3723.4

SUNDRY NOTICES AND REPORTS ON WELLS
(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A
DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT"
(FORM C-101) FOR SUCH PROPOSALS.)

1. Type of Well: OIL WELL ☒ GAS WELL ☐ OTHER ☐	2. Name of Operator Marathon Oil Company
3. Address of Operator P.O. Box 552 Midland, Tx. 79702	4. Well Location Unit Letter P : 330 Feet From The SOUTH Line and 990 Feet From The EAST Line Section 14 Township 16-S Range 38-E NMPM LEA County

11. Check Appropriate Box to Indicate Nature of Notice, Report, or Other Data	
NOTICE OF INTENTION TO:	SUBSEQUENT REPORT OF:
PERFORM REMEDIAL WORK ☐	REMEDIAL WORK ☐
TEMPORARILY ABANDON ☐	ALTERING CASING ☐
PULL OR ALTER CASING ☐	COMMENCE DRILLING OPNS. ☐
OTHER: ☐	PLUG AND ABANDONMENT ☐
	CASING TEST AND CEMENT JOB ☐
	OTHER: ☐

12. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work) SEE RULE 1103.

MARATHON OIL PROPOSES TO P&A THIS WELL USING THE PROCEDURE OUTLINED BELOW.
TEST ANCHORS. MIRUPU. SET CBP @ 13,000'. DUMP 5 SX CMT ON TOP OF PLUG. LOAD HOLE WITH 10#/GALLON
BRINE WITH 25#/Bbl GEL.
SET BALANCED PLUG 11240'-11340' + 50% EXCESS. TAG PLUG
SET BALANCED PLUG 9440-9540 + 50% EXCESS. TAG PLUG
SET BALANCED PLUG 8270-8370 + 50% EXCESS. TAG PLUG
CUT CASING @ 7200'. SET BALANCED PLUG 50' BOVE AND BELOW CUT OFF + 100% EXCESS. PULL CASING. TAG PLUG.
SET BALANCED PLUG 6277-6377 + 100% EXCESS. TAG PLUG
SET BALANCED PLUG 4070-5070 + 100% EXCESS. TAG PLUG
SET BALANCED PLUG 2500-2600 + 50% EXCESS. TAG PLUG
SET BALANCED PLUG 270-370 + 50% EXCESS. TAG PLUG
SET PLUG SURF TO 50'. CUT OFF CSG 3' BELOW GROUND LEVEL. INSTALL DRY HOLE MARKER. RDMO. CLEAN AND
LEVEL LOCATION

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

SIGNATURE _____ TITLE ADVANCED ENG. TECH DATE 1-18-93
TYPE OR PRINT NAME THOMAS M. PRICE *Thomas m Price* TELEPHONE NO. 915-682-1626

(This space for State Use)

Orig. Signed by
Paul Ranta
Geologist

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

JAN 21 1993

Houston Division
Production Operations, United States



**Marathon
Oil Company**

P.O. Box 2409
Hobbs, New Mexico 88240
Telephone 505/393-7106

December 12, 1992

Mr. Jerry Sexton
State of New Mexico
Oil Conservation Division
P.O. Box 1980
Hobbs, NM 88240

Dear Mr. Sexton:

Marathon Oil Company suspects a casing leak on the Benson Well No. 1. The location of this Well is Section 14, Township 16 South, Range 38 East, Lea County, New Mexico. This well recently started producing 100% water. Also the water analysis indicates that the chlorides have increased dramatically.

Per our conversation, Marathon will produce this well for 30 days below a packer to test for oil production. Fluid levels will be shot on the casing during this time period. Then, at the end of 30 days we will meet with you to determine what the next step will be in working on this well.

Sincerely,

Allen S. Wilson
Production Foreman
Northwest Operations

ASW, 9223/dw

xc: S.P. Guidry



**Marathon
Oil Company**

P.O. Box 552
Midland, Texas 79702
Telephone 915/682-1626

March 23, 1988

State of New Mexico
Energy, Minerals and Natural Resources Department
Oil Conservation Division
Post Office Box 1980
Hobbs, New Mexico 88241-1980

Attention: Mr. Jerry Sexton

Re: Benson Well No. 1
Unit P, Sec. 14, T-16S, R-38E
V. E. Roddy Well No. 1
Unit A, Sec. 23, T-16S, R-38E

Dear Mr. Sexton:

Attached is the Form C-104 for the Benson Well No. 1 as per your letter dated February 9, 1988. As requested, the form indicates the date in which the permanent gas line connection was made by Phillips 66 Natural Gas Company.

In addition, attached is the Form C-104 for the V. E. Roddy Well No. 1 which also indicates the date in which the permanent gas line connection was made by Phillips 66 Natural Gas Company. The previous date shown on the Form C-104, dated November 25, 1987, was the installation of a temporary gas line by Marathon Oil Company.

If you have any questions, please feel free to call me at (915) 682-1626.

Very truly yours,

A handwritten signature in dark ink, appearing to read 'J. R. Jenkins'.

J. R. Jenkins
Hobbs Production Superintendent

JRJ/sdf

Attachments

030-88/JRJ



GARREY CARRUTHERS
GOVERNOR

STATE OF NEW MEXICO
ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT
OIL CONSERVATION DIVISION
HOBBS DISTRICT OFFICE

February 9, 1988

POST OFFICE BOX 1980
HOBBS, NEW MEXICO 88241-1980
(505) 393-6161

Marathon Oil Company
P.O. Box 552
Midland, TX 79702

Re: Benson #1-P
Section 14, T16S, R38E

Gentlemen:

We are returning the Form C-104 submitted requesting permission to transport casinghead gas from the above-referenced well by Phillips 66 Natural Gas Company. When Phillips is actually connected please indicate date and return this form to us for approval.

Very truly yours,

OIL CONSERVATION DIVISION

Jerry Sexton
Supervisor, District I

ed

Encl.

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

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TRANSPORTER	OIL
	GAS
OPERATOR	
PRODUCTION OFFICE	

OIL CONSERVATION DIVISION

P. O. BOX 2088

SANTA FE, NEW MEXICO 87501

Form C-104
Revised 12-01-79
Format 05-01-83
Page 1

REQUEST FOR ALLOWABLE
AND
AUTHORIZATION TO TRANSPORT OIL AND NATURAL GAS

I.

Operator Marathon Oil Company

Address P.O. Box 552 Midland, Texas 79702

Reason(s) for filing (Check proper box)

☒ New Well	Change in Transporter of:	Other (Please explain) <u>Request permission to transport casinghead gas.</u>
☐ Recompletion	☐ Oil	
☐ Change in Ownership	☒ Casinghead Gas	

☐ Dry Gas
☐ Condensate

If change of ownership give name and address of previous owner _____

II. DESCRIPTION OF WELL AND LEASE

Lease Name <u>Benson</u>	Well No. <u>1</u>	Pool Name, including Formation <u>North Knowles, Devonian</u>	Kind of Lease State, Federal or Fee	Fee	Lease No.
Location					
Unit Letter <u>P</u>	<u>330</u>	Feet From The <u>South</u>	Line and <u>990</u>	Feet From The <u>East</u>	
Line of Section <u>14</u>	Township <u>16-S</u>	Range <u>38-E</u>	NMPM, <u>Lea</u>	County	

III. DESIGNATION OF TRANSPORTER OF OIL AND NATURAL GAS

Name of Authorized Transporter of Oil ☒ or Condensate ☐	Address (Give address to which approved copy of this form is to be sent)
Permian <u>SCURLOCK PERMIAN CORP EFF 9-1-91</u>	<u>P.O. Box 1183, Houston, Texas 7251-1183</u>
Name of Authorized Transporter of Casinghead Gas ☒ or Dry Gas ☐	Address (Give address to which approved copy of this form is to be sent)
<u>Phillips 66 Natural Gas Co. GPM Gas Corporation</u>	<u>82-N Plaza Office Bldg., Bartlesville, OK 7400</u>
If well produces oil or liquids, give location of tanks.	Is gas actually connected? When
Unit <u>P</u> Sec. <u>14</u> Twp. <u>16S</u> Rge. <u>38E</u>	<u>Yes</u> <u>1-30-88</u>

If this production is commingled with that from any other lease or pool, give commingling order number: _____

NOTE: Complete Parts IV and V on reverse side if necessary.

VI. CERTIFICATE OF COMPLIANCE

I hereby certify that the rules and regulations of the Oil Conservation Division have been complied with and that the information given is true and complete to the best of my knowledge and belief.

J. R. Jenkins
(Signature)
Hobbs Production Superintendent
(Title)
2-1-88
(Date)

OIL CONSERVATION DIVISION

APPROVED _____, 19____

BY _____

TITLE ORIGINAL SIGNED BY JERRY SEXTON
DISTRICT SUPERVISOR

This form is to be filed in compliance with RULE 1104.

If this is a request for allowable for a newly drilled or deepened well, this form must be accompanied by a tabulation of the deviation tests taken on the well in accordance with RULE 111.

All sections of this form must be filled out completely for allowable on new and recompleted wells.

Fill out only Sections I, II, III, and VI for changes of owner, well name or number, or transporter or other such change of condition.

Separate Forms C-104 must be filed for each pool in multiply completed wells.

IV. COMPLETION DATA

Designate Type of Completion - (X)	Oil well	Gas well	New well	Workover	Deepen	Plug Back	Same Resrv.	Diff. Resrv.
	X		X					
Date cased 11-15-86	Date Compl. Ready to Prod. 2-11-87	Total Depth 13,345'		P.B.T.D. 13,248'				
Elevations (DF, RKB, RT, GR, etc.) GL 3898'	Name of Producing Formation Devonian	Top Oil/Gas Pay 13,118'		Tubing Depth 9035'				
Perforations 13,120'-13,150'		Depth Casing Shoe						
TUBING, CASING, AND CEMENTING RECORD								
HOLE SIZE	CASING & TUBING SIZE		DEPTH SET		SACKS CEMENT			
17 1/2"	13 3/8 48 & 54#		319'		430 Class C			
12 1/2"	9 5/8 36 & 40#		5017'		765 Light & 250 Class H			
8 3/4"	2 7/8" 6.5#		9035'					

V. TEST DATA AND REQUEST FOR ALLOWABLE (Test must be after recovery of total volume of load oil and must be equal to or exceed top allowable for this depth or as for full 24 hours)

Date First New Oil Run To Tanks 2-11-87		Date of Test 2-22-87	Producing Method (Flow, pump, gas lift, etc.) Pump	
Length of Test 24 hrs.	Tubing Pressure 20	Casing Pressure 20	Choke Size	
Actual Prod. During Test 562 Bbls.	Oil - Bbls. 301 Bbls.	Water - Bbls. 261 Bbls.	Gas - MCF TSTM	

GAS WELL

Actual Prod. Test - MCF/D	Length of Test	Bbls. Condensate/MMCF	Gravity of Condensate
Testing Method (pilot, back pr.)	Tubing Pressure (Shut-in)	Casing Pressure (Shut-in)	Choke Size

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**NEW MEXICO OIL CONSERVATION COMMISSION
WELL COMPLETION OR RECOMPLETION REPORT AND LOG**

Form C-105
Revised 11-84

1a. TYPE OF WELL OIL WELL ☒ GAS WELL ☐ DRY ☐ OTHER ☐				5a. Indicate Type of Lease State ☐ For ☒	
b. TYPE OF COMPLETION NEW WELL ☒ WORK OVER ☐ DEEPEN ☐ PLUG BACK ☐ DIFF. RESVR. ☐ OTHER ☐				5. State Oil & Gas Lease No.	
2. Name of Operator Marathon Oil Company				7. Unit Agreement Name	
3. Address of Operator P. O. Box 552, Midland, Texas 79702				8. Farm or Lease Name Benson	
4. Location of Well UNIT LETTER <u>P</u> LOCATED <u>330</u> FEET FROM THE <u>South</u> LINE AND <u>990</u> FEET FROM <u>East</u> LINE OF SEC. <u>14</u> TWP. <u>16-S</u> RGE. <u>38-E</u>				9. Well No. 1	
15. Date Spudded 11-15-86				13. Field and Pool, or Wildcat Wildcat - Dev.	
16. Date T.D. Reached 1-24-87				12. County Lea	
17. Date Compl. (Ready to Prod.) 2-11-87				18. Elevations (DF, RAB, RT, GR, etc.) GR: 3698' KB: 3723.4'	
20. Total Depth 13,345'				19. Elev. Casinghead 3698'	
21. Plug Back T.D. 13,248'				23. Intervals Drilled By: Rotary Tools <u>All</u> Cable Tools <u>-</u>	
22. If Multiple Compl., How Many -				25. Was Directional Survey Made Yes	
24. Producing Interval(s), of this completion - Top, Bottom, Name 13,120'-13,150' (Devonian)				27. Was Well Cored No	
26. Type Electric and Other Logs Run GR-DLL, GR-CNL-LDT, GR-BHC Sonic					
28. CASING RECORD (Report all strings set in well)					
CASING SIZE	WEIGHT LB./FT.	DEPTH SET	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
13-3/8"	48 & 54.5	319'	17-1/2"	430 sx. Class "C"	None
9-5/8"	36 & 40	5017'	12-1/4"	1765 sx. Lite & 250 sx. H	None
5-1/2"	17 & 20	13,344'	8-3/4"	1800 sx. Cl. "H" 50:50 POZ	None
29. LINER RECORD			30. TUBING RECORD		
SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN	PACKER SET
				2-7/8"	9035'
31. Perforation Record (Interval, size and number)			32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.		
13,120'-13,130 (2 JSPF-22 holes-0.41" dia.)			DEPTH INTERVAL		
13,130'-13,150 (4 JSPF-82 holes-0.41" dia.)			AMOUNT AND KIND MATERIAL USED		
			13,120-13,150' 6000 gal. 15% NEFE-HCl		
			13,120-13,150' 30,000 gal. gelled 20% HCl acid.		
33. PRODUCTION					
Date First Production 2-11-87		Production Method (Flowing, gas lift, pumping - Size and type pump) Pumping, 1-3/4" rod pump		Well Status (Prod. or Shut-in) Producing	
Date of Test 3-1-87	Hours Tested 24	Choke Size open	Prod'n. For Test Period 313	Oil - Bbl. 11.4	Gas - Oil Ratio 36
Flow Tubing Press. 23 psi	Casing Pressure 5 psi	Calculated 24-Hour Rate 313	Gas - MCF 11.4	Water - Bbl. 120	Oil Gravity - API (Corr.) 46.9
34. Disposition of Gas (Sold, used for fuel, vented, etc.) Vented				Test Witnessed By M. L. Johnston	
35. List of Attachments C-104 and Deviation Survey filed previously; Copy of Logs attached; DST Summary					
36. I hereby certify that the information shown on both sides of this form is true and complete to the best of my knowledge and belief.					
SIGNED <u>William D. Holme</u>		TITLE <u>Oper. Supt.</u>		DATE <u>March 2, 1987</u>	

INSTRUCTIONS

This form is to be filed with the appropriate District Office of the Commission 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 filed in quintuplicate except on state land, where six copies are required. See Rule 1105.

INDICATE FORMATION TOPS IN CONFORMANCE WITH GEOGRAPHICAL SECTION OF STATE

Southeastern New Mexico

Northwestern New Mexico

T. Anhy _____	T. Canyon _____	T. Ojo Alamo _____	T. Penn. "B" _____
T. Salt _____	T. Strawn _____	T. Kirtland-Fruitland _____	T. Penn. "C" _____
B. Salt _____	T. Atoka <u>11,290'</u>	T. Pictured Cliffs _____	T. Penn. "D" _____
T. Yates _____	T. Miss _____	T. Cliff House _____	T. Leadville _____
T. 7 Rivers _____	T. Devonian <u>13,118'</u>	T. Menefee _____	T. Madison _____
T. Queen _____	T. Silurian _____	T. Point Lookout _____	T. Elbert _____
T. Grayburg _____	T. Montoya _____	T. Mancos _____	T. McCracken _____
T. San Andres <u>5010'</u>	T. Simpson _____	T. Gallup _____	T. Ignacio Qtzite _____
T. Glorieta <u>6327'</u>	T. McKee _____	Base Greenhorn _____	T. Granite _____
T. Paddock <u>6524'</u>	T. Ellenburger _____	T. Dakota _____	T. _____
T. Blinberry _____	T. Gr. Wash _____	T. Morrison _____	T. _____
T. Tubb <u>7692'</u>	T. Granite _____	T. Todilto _____	T. _____
T. Drinkard _____	T. Delaware Sand _____	T. Entrada _____	T. _____
T. Abo <u>8320'</u>	T. Bone Springs _____	T. Wingate _____	T. _____
T. Wolfcamp <u>9490'</u>	T. _____	T. Chinle _____	T. _____
T. Penn. _____	T. _____	T. Permian _____	T. _____
T. Cisco (Bough C) _____	T. _____	T. Penn. "A" _____	T. _____

OIL OR GAS SANDS OR ZONES

No. 1, from 13,118' to 13,150' No. 4, from _____ to _____
 No. 2, from _____ to _____ No. 5, from _____ to _____
 No. 3, from _____ to _____ No. 6, from _____ to _____

IMPORTANT WATER SANDS

Include data on rate of water inflow and elevation to which water rose in hole.

No. 1, from _____ to _____ feet.
 No. 2, from _____ to _____ feet.
 No. 3, from _____ to _____ feet.
 No. 4, from _____ to _____ feet.

FORMATION RECORD (Attach additional sheets if necessary)

From	To	Thickness in Feet	Formation	From	To	Thickness in Feet	Formation
25'	390'		Surface sand & gravel	5300'	9880'	4580	Dolomite
390'	2120'		Red Bed	9880'	10180	300	Limestone
2120'	2550'		Sand and Shale	10180'	10530	850	Dolomite
2550'	4664'		Anhydrite and Salt	10530'	10660	130	Limestone
4664'	5300'		Anhydrite and Dolomite	10660'	11000	340	Limestone and Dolomite
				11000'	11510	510	Limestone and Shale
				11510'	11800	290	Sandstone and Shale
				11800'	11980	180	Limestone
				11980'	12180	200	Limestone and Shale
				12180'	13060	880	Limestone
				13060'	13120	60	Shale
				13120'	13345	225	Dolomite

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ENERGY AND MINERALS DEPARTMENT

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

Form C-103
Revised 10-1-7

SUNDRY NOTICES AND REPORTS ON WELLS

(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPLY OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)

1. ☒ OIL WELL ☐ GAS WELL ☐ OTHER-		5a. Indicate Type of Lease State ☐ Fee ☒
2. Name of Operator Marathon Oil Company		5. State Oil & Gas Lease No.
3. Address of Operator P. O. Box 552, Midland, Texas		7. Unit Agreement Name
4. Location of Well UNIT LETTER <u>P</u> <u>330</u> FEET FROM THE <u>South</u> LINE AND <u>990</u> FEET FROM THE <u>East</u> LINE, SECTION <u>14</u> TOWNSHIP <u>16-S</u> RANGE <u>38-E</u> N.M.P.M.		8. Farm or Lease Name Benson
15. Elevation (Show whether DF, RT, GR, etc.) GR: 3698' KB: 3723.4'		9. Well No. 1
		10. Field and Pool, or Wildcat <u>Wildcat Dev.</u>
		12. County Lea

Check Appropriate Box To Indicate Nature of Notice, Report or Other Data
NOTICE OF INTENTION TO:

PERFORM REMEDIAL WORK ☐	PLUG AND ABANDON ☐
TEMPORARILY ABANDON ☐	CHANGE PLANS ☐
PULL OR ALTER CASING ☐	OTHER ☐

SUBSEQUENT REPORT OF:

REMEDIAL WORK ☐	ALTERING CASING ☐
COMMENCE DRILLING OPNS. ☐	PLUG AND ABANDONMENT ☐
CASING TEST AND CEMENT JOB ☐	OTHER <u>New Well Completion</u> ☒

17. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work) SEE RULE 1103.

Marathon Oil Company requests that this information be held confidential. Formal request of confidentiality will accompany Form C-105 when submitted.

Ran GR-CBL-CCL from 13,249' to 7,000'.
Perforated Devonian 13,120' to 13,150' w/ 2 JSPF (62 holes).
Acidized w/ 6000 gals. 15% NEFE-HCl acid.
Swab test well.
Perforated Devonian 13,130' to 13,150' w/ 2 JSPF (42 holes).
Acidized w/ 30,000 gals. 20% gelled HCl acid.
Currently testing well.

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

SIGNED <u>E. M. Pugh</u>	TITLE <u>Engineer</u>	DATE <u>Feb. 13, 1987</u>
ORIGINAL SIGNED BY JERRY SEXTON DISTRICT 1 SUPERVISOR		
APPROVED BY _____	TITLE _____	DATE <u>JUN 8 1987</u>
CONDITIONS OF APPROVAL, IF ANY:		

Mid-Continent Region
Exploration United States



**Marathon
Oil Company**

P.O. Box 552
Midland, Texas 79702
Telephone 915/682-1626

March 2, 1987

State of New Mexico
Oil Conservation Division
P. O. Box 1980
Hobbs, New Mexico 88240

Attention: J. T. Sexton

Subject Reference: Well Completion Report, Form C-105
Marathon Oil Company
J. Benson Well No. 1
Unit P, Sec. 14, T-16-S, R-38-E
Lea County, New Mexico

Dear Sir:

Attached is the well completion report, Form C-105, and attachments for Marathon Oil Company's J. Benson Well No. 1, located in Unit P, Section 14, T-16-S, R-38-E, Lea County, New Mexico. It is respectfully requested that this information be kept confidential for a period of 90 days. If any additional information is required, please contact me at 915/682-1626. Thank you for your assistance.

Sincerely,

MARATHON OIL COMPANY

William D. Holmes
Operations Superintendent

Attachments

WDH;tjm/i

XC: File

OIL CONSERVATION DIVISION

P. O. BOX 2088

SANTA FE, NEW MEXICO 87501

REQUEST FOR ALLOWABLE
AND
AUTHORIZATION TO TRANSPORT OIL AND NATURAL GAS

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Marathon Oil Company

Address
P.O. Box 2409, Hobbs, New Mexico 88240

Reason(s) for filing (Check proper box)

New Well	☒	Change in Transporter of:	
Recompletion	☐	Oil	☐
Change in Ownership	☐	Casinghead Gas	☐
		Dry Gas	☐
		Condensate	☐

Other (Please explain)

**CASINGHEAD GAS MUST NOT BE
FLARED AFTER 4-11-87
UNLESS AN EXCEPTION TO RULE
IS OBTAINED.**If change of ownership give name
and address of previous owner

1. DESCRIPTION OF WELL AND LEASE

Lease Name Benson	Well No. 1	Pool Name, including Formation North Keweenaw Shale at Devonian	Kind of Lease State, Federal or Fee	Lease No.
Location Unit Letter P : 330 Feet From The South Line and 990 Feet From The East Line of Section 14 Township 16S Range 38E, NMPM, Lea County				

2. DESIGNATION OF TRANSPORTER OF OIL AND NATURAL GAS

Name of Authorized Transporter of Oil ☒ or Condensate ☐ The Permian Corp.	Address (Give address to which approved copy of this form is to be sent) P.O. Box 1183, Houston, Texas 77251-1183	
Name of Authorized Transporter of Casinghead Gas ☐ or Dry Gas ☐ None	Address (Give address to which approved copy of this form is to be sent)	
If well produces oil or liquids, give location of tanks.	Unit P	Sec. 14
	Twp. 16S	Rge. 38E
	Is gas actually connected? No	
	When	

If this production is commingled with that from any other lease or pool, give commingling order number:

COMPLETION DATA

Designate Type of Completion - (X)	Oil Well	Gas Well	New Well	Workover	Deepen	Plug Back	Same Res't.	Diff. Res't.
	X		X					
Date Spudded 11-15-86	Date Compl. Ready to Prod. 2-11-87		Total Depth 13345		P.B.T.D. 13248			
Elevations (DF, RKB, RT, GR, etc.) GL 3898	Name of Producing Formation Undesignated Devonian		Top Oil/Gas Pay 13118		Tubing Depth 9035			
Perforations 13120 - 13150					Depth Casing Shoe 13344			

TUBING, CASING, AND CEMENTING RECORD

HOLE SIZE	CASING & TUBING SIZE	DEPTH SET	SACKS CEMENT
17 1/2	13 3/8 48 & 54 1/2 #	319'	430 Class C
12 1/4	9 5/8 36 & 40 #	5017'	765 light & 250 Class H
8 3/4	5 1/2 17 & 20 #	13344'	1800 Class H w/ 50/50Pos
	2 7/8 6.5 #	9035'	

TEST DATA AND REQUEST FOR ALLOWABLE
OIL WELL

(Test must be after recovery of total volume of load oil and must be equal to or exceed top allowable for this depth or be for full 24 hours)

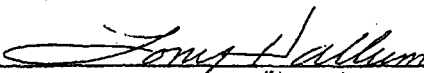
Date First New Oil Run To Tanks 2-11-87	Date of Test 2-22-87	Producing Method (Flow, pump, gas lift, etc.) Pump	
Length of Test 24 hrs.	Tubing Pressure 20	Casing Pressure 20	Choke Size -
Actual Prod. During Test 562 BBLs	Oil - Bbls. 301 BBLs	Water - Bbls. 261 BBLs	Gas - MCF TSTM

GAS WELL

Actual Prod. Test - MCF/D	Length of Test	Bbls. Condensate/MCF	Gravity of Condensate
Testing Method (prior, back pr.)	Tubing Pressure (Shut-In)	Casing Pressure (Shut-In)	Choke Size

CERTIFICATE OF COMPLIANCE

I hereby certify that the rules and regulations of the Oil Conservation Division have been complied with and that the information given above is true and complete to the best of my knowledge and belief.


(Signature)

Engineering Technician

(Title)

2-23-87

(Date)

OIL CONSERVATION DIVISION

APPROVED FEB 27 1987, 19

BY ORIGINAL SIGNED BY JERRY SEXTON
DISTRICT I SUPERVISOR

TITLE

This form is to be filed in compliance with RULE 1104.

If this is a request for allowable for a newly drilled or deepened well, this form must be accompanied by a tabulation of the deviation tests taken on the well in accordance with RULE 111.

All sections of this form must be filled out completely for allowable on new and recompleted wells.

Fill out only Sections I, II, III, and VI for changes of owner, well name or number, or transporter, or other such change of condition.

Separate Forms C-104 must be filed for each pool in multiply completed wells.

INCLINATION REPORT

OPERATOR Marathon Oil Company ADDRESS P.O. Box 552, Midland, TX
 LEASE Benson WELL NO. 1 FIELD Wildcat
 LOCATION Unit P 330' FSL & 990' FEL, Section 14, T16S, R38E, Lea County, New Mexico

<u>Depth</u>	<u>Inclination (Degrees)</u>	<u>Displacement</u>	<u>Displacement Accumulated</u>
107	1/2	.93	.93
320	1	3.72	4.65
518	1	3.46	8.11
1,000	1/4	2.10	10.21
1,500	3/4	6.54	16.75
2,006	1/4	2.21	18.96
2,180	1/4	0.76	19.72
2,660	1/2	4.19	23.91
3,134	1/4	2.07	25.98
3,316	1/4	0.79	26.77
3,820	3/4	6.60	33.37
4,309	3/4	6.40	39.77
4,827	3/4	6.78	46.55
5,030	1/4	0.89	47.44
5,522	1/2	4.29	51.73
6,024	1/2	4.38	56.11
6,495	1/2	4.11	60.22
6,966	1	8.22	68.44
7,467	3/4	6.56	75.00
7,968	1	8.74	83.74
8,281	1-1/2	8.19	91.94
8,414	1-1/4	2.90	94.84
8,500	1-1/4	1.88	96.71
8,687	1-1/2	4.90	101.61
8,872	1-3/4	5.65	107.26
9,057	1-1/2	4.84	112.10

(continued on next page)

I hereby certify that the above data as set forth is true and correct to the best of my knowledge and belief.

William D. Holmes
 Title: Operations Superintendent

Affidavit:

Before me, the undersigned authority, appeared W. D. Holmes known to me to be the person whose name is subscribed herebelow, who, on making deposition, under oath states that he is acting for and in behalf of the operator of the well identified above, and that to the best of his knowledge and belief such well was not intentionally deviated from the true vertical whatsoever.

William D. Holmes
 (Affiant's Signature)

Sworn and subscribed to in my presence on this the 25 day of February 1987.

S. A. Alchian
 Notary Public in and for the County
 of Lea, State of New Mexico

My Commission Expires 7-21-88

Marathon Oil Company
Inclination Report
Benson Well No. 1
Lea County, New Mexico

<u>Depth</u>	<u>Inclination (Degrees)</u>	<u>Displacement</u>	<u>Displacement Accumulated</u>
9,244	5	16.30	128.40
9,276	5	2.88	131.28
9,308	5	2.79	134.06
9,339	5	2.70	136.77
9,371	5	2.79	139.56
9,402	5	2.70	142.26
9,434	5-1/2	3.07	145.32
9,452	5	1.57	146.89
9,494	4-3/4	3.48	150.37
9,557	4-1/2	4.94	155.31
9,618	5	5.32	160.63
9,649	4-3/4	2.57	163.20
9,681	4-3/4	2.65	165.85
9,743	4-3/4	5.13	170.98
9,805	5	5.40	176.38
9,898	5	8.11	184.49
9,948	5	4.36	188.85
10,087	4-1/4	10.30	199.15
10,181	4-1/4	6.97	206.12
10,305	3-3/4	8.11	214.23
10,462	3-1/2	9.58	223.81
10,649	3-1/4	10.60	234.41
10,836	3	9.79	244.20
10,968	2-3/4	6.33	250.53
11,057	2-1/4	3.49	254.03
11,214	1-3/4	4.79	258.82
11,308	4	6.56	265.38
11,338	4-3/4	2.48	267.86
11,401	4-3/4	5.22	273.08
11,421	4-1/2	1.57	274.65
11,526	3	5.50	280.14
11,776	2-1/2	10.90	291.05
11,989	1-3/4	6.50	297.55
12,260	2	9.46	307.01
12,667	2	14.20	321.21
13,199	1-1/2	13.93	335.14

26-Jan-87
14:11

Marathon Oil Company

Benson # 1

Unit P, Sec. 14, T 16S, R28E, Lea County, N.M.

JBENSON

METHOD OF CALCULATION RADIUS OF CURVATURE
PLANE OF PROJECTION S 0.00E
NUMBER OF SURVEY RECORDS 77
WELLHEAD LOCATION Y(N/S) = 0.000
X(E/W) = 0.000

PLATFORM NAME = UNKNOWN

RECORD	MD	ANGLE	AZIMUTH	N/S	E/W	TVD	VS	DOGLEG
1	0	0.00	N90.00E	0.0N	0.0E	0.0	0.0	0.000
2	5017	0.00	N90.00E	0.0N	0.0E	5017.0	0.0	0.000
3	5063	0.25	S42.00E	0.0S	0.1E	5063.0	0.0	0.587
4	5157	0.25	S30.00E	0.4S	0.3E	5157.0	0.4	0.056
5	5250	0.25	S33.00E	0.7S	0.5E	5250.0	0.7	0.014
6	5344	0.00	S35.00E	0.9S	0.7E	5344.0	0.9	0.266
7	5437	0.25	S38.00W	1.1S	0.6E	5437.0	1.1	0.313
8	5531	0.25	S29.00W	1.4S	0.4E	5531.0	1.4	0.042
9	5624	0.25	S60.00W	1.7S	0.1E	5624.0	1.7	0.144
10	5718	0.25	N86.00W	1.8S	0.3W	5718.0	1.8	0.156
11	5811	0.50	S84.00W	1.8S	0.9W	5811.0	1.8	0.278
12	5905	0.50	S90.00W	1.8S	1.7W	5905.0	1.8	0.056
13	5998	0.50	N54.00W	1.6S	2.4W	5998.0	1.6	0.332
14	6092	0.50	N46.00W	1.1S	3.1W	6092.0	1.1	0.074
15	6185	0.50	N60.00W	0.6S	3.7W	6185.0	0.6	0.131
16	6279	0.75	N61.00W	0.1S	4.6W	6279.0	0.1	0.266
17	6372	0.75	N88.00W	0.2N	5.8W	6372.0	-0.2	0.377
18	6466	1.00	N77.00W	0.4N	7.2W	6466.0	-0.4	0.320
19	6559	1.00	N68.00W	0.9N	8.7W	6558.9	-0.9	0.169
20	6653	1.00	N55.00W	1.7N	10.2W	6652.9	-1.7	0.241
21	6746	1.00	N52.00W	2.7N	11.5W	6745.9	-2.7	0.056
22	6840	1.00	N50.00W	3.7N	12.8W	6839.9	-3.7	0.037
23	6933	0.75	N59.00W	4.5N	13.9W	6932.9	-4.5	0.307
24	7027	0.75	N59.00W	5.2N	15.0W	7026.9	-5.2	0.000
25	7120	1.00	N79.00W	5.7N	16.3W	7119.9	-5.7	0.423
26	7214	0.75	N73.00W	6.0N	17.7W	7213.9	-6.0	0.283
27	7307	1.00	N57.00W	6.6N	19.0W	7306.8	-6.6	0.375
28	7401	1.00	S90.00W	7.1N	20.5W	7400.8	-7.1	0.604
29	7494	1.00	N43.00W	7.7N	22.0W	7493.8	-7.7	0.857
30	7588	1.00	N41.00W	8.9N	23.1W	7587.8	-8.9	0.037
31	7681	1.00	N42.00W	10.1N	24.1W	7680.8	-10.1	0.019
32	7775	1.00	N53.00W	11.2N	25.3W	7774.8	-11.2	0.204
33	7868	1.25	N65.00W	12.2N	26.9W	7867.8	-12.2	0.369
34	7962	1.50	N57.00W	13.3N	28.9W	7961.7	-13.3	0.335
35	8055	1.50	N48.00W	14.8N	30.8W	8054.7	-14.8	0.253
36	8149	1.50	N52.00W	16.3N	32.7W	8148.7	-16.3	0.111
37	8242	1.75	N56.00W	17.9N	34.8W	8241.6	-17.9	0.295
38	8336	1.75	N49.00W	19.6N	37.1W	8335.6	-19.6	0.227
39	8429	1.75	N43.00W	21.6N	39.1W	8428.5	-21.6	0.197
40	8523	1.75	N32.00W	23.9N	40.9W	8522.5	-23.9	0.357
41	8616	2.00	N34.00W	26.4N	42.5W	8615.4	-26.4	0.278
42	8710	2.00	N43.00W	29.0N	44.6W	8709.4	-29.0	0.334
43	8803	2.00	N34.00W	31.5N	46.6W	8802.3	-31.5	0.337
44	8897	1.75	N49.00W	33.8N	48.6W	8896.3	-33.8	0.585
45	8990	2.25	N14.00W	36.5N	50.3W	8989.2	-36.5	1.400

46	9084	3.00	N4.00E	40.5N	49.2W	9171.1	-40.5	2.822
47	9177	5.50	N53.00E	45.1N	44.1W	9175.9	-45.1	2.782
48	9271	5.50	N54.00E	50.5N	36.8W	9269.4	-50.5	0.102
49	9364	5.25	N55.00E	55.5N	29.7W	9362.0	-55.5	0.237
50	9458	5.00	N46.00E	60.8N	23.3W	9455.6	-60.8	0.295
51	9551	4.75	N55.00E	65.9N	17.2W	9548.3	-65.9	0.364
52	9645	5.00	N49.00E	70.8N	10.9W	9642.0	-70.8	0.604
53	9738	4.75	N54.00E	75.7N	4.7W	9734.6	-75.7	0.530
54	9832	5.00	N55.00E	80.3N	1.8E	9823.3	-80.3	0.281
55	9925	5.25	N59.00E	84.9N	8.8E	9920.9	-84.9	0.469
56	10019	4.25	N54.00E	89.2N	15.3E	10014.6	-89.2	1.151
57	10112	4.75	N84.00E	91.7N	22.0E	10107.3	-91.7	2.559
58	10206	4.50	N88.00E	92.3N	29.6E	10201.0	-92.3	0.434
59	10299	4.00	N72.00E	93.5N	36.3E	10293.7	-93.5	1.380
60	10393	3.25	N78.00E	95.0N	42.1E	10387.6	-95.0	0.894
61	10486	3.50	N75.00E	96.3N	47.4E	10480.4	-96.3	0.329
62	10580	3.25	N79.00E	97.5N	52.8E	10574.2	-97.5	0.365
63	10673	3.25	N75.00E	98.7N	57.9E	10667.1	-98.7	0.244
64	10767	3.25	N76.00E	100.1N	63.1E	10760.9	-100.1	0.060
65	10860	2.75	N62.00E	101.3N	67.6E	10853.6	-101.3	0.952
66	10954	3.00	N84.00E	103.2N	72.1E	10947.7	-103.2	1.197
67	11047	2.75	N75.00E	104.9N	76.7E	11040.6	-104.9	0.554
68	11141	0.75	N76.00E	104.9N	79.6E	11134.5	-104.9	2.323
69	11234	1.50	N70.00W	105.3N	79.9E	11227.5	-105.3	2.547
70	11321	4.75	N75.00W	106.0N	75.3E	11314.4	-106.0	3.749
71	11421	4.50	N69.00W	109.1N	67.7E	11414.0	-109.1	0.544
72	11526	3.00	N52.00W	112.0N	61.7E	11513.6	-112.0	1.776
73	11776	2.50	N52.00E	122.3N	61.7E	11763.5	-122.3	1.745
74	11989	1.75	N20.00E	129.2N	66.3E	11981.4	-129.2	0.653
75	12260	2.00	N 5.00W	137.9N	67.4E	12252.2	-137.9	0.313
76	12667	2.00	N30.00E	151.0N	70.5E	12659.0	-151.0	0.295
77	13199	1.50	N60.00E	155.0N	74.6E	13190.7	-155.0	0.475

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REQUEST FOR ALLOWABLE AND AUTHORIZATION TO TRANSPORT OIL AND NATURAL GAS

Operator Marathon Oil Company	
Address P. O. Box 552, Midland, Texas 79702	
Reason(s) for filing (Check proper box)	Other (Please explain)
New Well ☒	Change in Transporter of: Oil ☐ Dry Gas ☐ Casinghead Gas ☐ Condensate ☐
Recompletion ☐	Request 1000 bbls. test allowable <i>February 1987</i>
Change in Ownership ☐	

If change of ownership give name
and address of previous owner

2. DESCRIPTION OF WELL AND LEASE

Lease Name Benson	Well No. 1	Pool Name, including Formation Wildcat (Devonian)	Kind of Lease State, Federal or Fee	Fee	Lease
Location Unit Letter <u>P</u> : <u>330</u> Feet From The <u>South</u> Line and <u>990</u> Feet From The <u>East</u> Line of Section <u>14</u> Township <u>16-S</u> Range <u>38-E</u> , NMPM, Lea Cou					

3. DESIGNATION OF TRANSPORTER OF OIL AND NATURAL GAS

Name of Authorized Transporter of Oil ☒ or Condensate ☐ The Permian Corporation	Address (Give address to which approved copy of this form is to be sent) P. O. Box 1183, Houston, Texas 77251-1183
Name of Authorized Transporter of Casinghead Gas ☐ or Dry Gas ☐	Address (Give address to which approved copy of this form is to be sent)
If well produces oil or liquids, give location of tanks.	Unit Sec. Twp. Rge. 14 16S 38E
Is gas actually connected?	When No

If this production is commingled with that from any other lease or pool, give commingling order number:

COMPLETION DATA

Designate Type of Completion - (X)	Oil Well	Gas Well	New Well	Workover	Deepen	Plug Back	Some Res'v.	Diff. R
Date Spudded	Date Compl. Ready to Prod.	Total Depth	P.B.T.D.					
Elevations (DF, RKB, RT, GR, etc.)	Name of Producing Formation	Top Oil/Gas Pay	Tubing Depth					
Perforations	Depth Casing Shoe							

TUBING, CASING, AND CEMENTING RECORD

HOLE SIZE	CASING & TUBING SIZE	DEPTH SET	SACKS CEMENT

4. TEST DATA AND REQUEST FOR ALLOWABLE OIL WELL

(Test must be after recovery of total volume of load oil and must be equal to or exceed top of hole for this depth or be for full 24 hours)

Date First New Oil Run To Tanks	Date of Test	Producing Method (Flow, pump, gas lift, etc.)	
Length of Test	Tubing Pressure	Casing Pressure	Choke Size
Actual Prod. During Test	Oil-Bbls.	Water-Bbls.	Gas-MCF

GAS WELL

Actual Prod. Test-MCF/D	Length of Test	Bbls. Condensate/MMCF	Gravity of Condensate
Testing Method (pilot, back pr.)	Tubing Pressure (Shut-In)	Casing Pressure (Shut-In)	Choke Size

5. CERTIFICATE OF COMPLIANCE

I hereby certify that the rules and regulations of the Oil Conservation Division have been complied with and that the information given above is true and complete to the best of my knowledge and belief.

William A. Holman
(Signature)

Operations Superintendent
(Title)

February 13, 1987
(Date)

OIL CONSERVATION DIVISION

APPROVED FEB 16 1987, 19

BY ORIGINAL SIGNED BY JERRY SEXTON
DISTRICT I SUPERVISOR

TITLE _____

This form is to be filed in compliance with RULE 1104.
If this is a request for allowable for a newly drilled or deep well, this form must be accompanied by a tabulation of the devils tests taken on the well in accordance with RULE 111.
All sections of this form must be filled out completely for all wells on new and recompleted wells.
Fill out only Sections I, II, III, and VI for changes of oil well name or number, or transporter, or other such change of condition.
Separate Forms C-104 must be filed for each pool in multi-completed wells.

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

OIL CONSERVATION DIVISION

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

Form C-103
Revised 10-1-7

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LAND OFFICE	
OPERATOR	

5a. Indicate Type of Lease
State ☐ Fee ☒

5. State Oil & Gas Lease No.

SUNDRY NOTICES AND REPORTS ON WELLS

(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)

1. ☒ OIL WELL ☐ GAS WELL ☐ OTHER	7. Unit Agreement Name
2. Name of Operator Marathon Oil Company	8. Farm or Lease Name Benson
3. Address of Operator P. O. Box 552, Midland, Texas 79702	9. Well No. 1
4. Location of Well UNIT LETTER <u>P</u> <u>990</u> FEET FROM THE <u>East</u> LINE AND <u>330</u> FEET FROM THE <u>South</u> LINE, SECTION <u>14</u> TOWNSHIP <u>16-S</u> RANGE <u>38-E</u> NMPM.	10. Field and Pool, or Wildcat Wildcat
11. Elevation (Show whether DF, RT, GR, etc.) GR 3698'; DF 3722.4'; KB 3723.4'	12. County Lea

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

NOTICE OF INTENTION TO:

SUBSEQUENT REPORT OF:

PERFORM REMEDIAL WORK ☐	PLUG AND ABANDON ☐	REMEDIAL WORK ☐	ALTERING CASING ☐
TEMPORARILY ABANDON ☐	CHANGE PLANS ☐	COMMENCE DRILLING OPNS. ☐	PLUG AND ABANDONMENT ☐
PULL OR ALTER CASING ☐	OTHER ☐	CASING TEST AND CEMENT JOB ☐	OTHER <u>DST and Production Casing</u> ☒

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work) SEE RULE 1103.

1/16/87 DST No. 1 *
1/17/87 Drilling
1/18/87 Drilling
1/19/87 DST No. 2 *
1/20/87 Drilling
1/21/87 DST No. 3 *
1/22/87 DST No. 4 *
1/23/87 Drilling
1/24-25/87 Ran GR-DLL, GR-CNL-LDT, GR BHC Sonic
1/26/87 TD: 13,345'. Ran 59 jts. 5-1/2", 20 lb./ft., N-80 casing and 253 joints 5-1/2", 17 lb./ft., N-80 casing to 13,344'. Cemented casing w/ 1800 sx. Class "H" 50:50 POZ. Plug down at 3:00 p.m. Nipple down BOP, set slips, and cut off casing. Installed tubing spool, cleaned pits, and released rig.

* Details of DST's No. 1, 2, 3, and 4 will be included with Form C-105. Marathon Oil Company requests that this information be held confidential.

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

SIGNED Eve M. Lingle TITLE Engineer DATE Jan. 27, 1987

ORIGINAL SIGNED BY JERRY SEXTON
DISTRICT 1 SUPERVISOR

APPROVED BY _____ TITLE _____ DATE JAN 30 1987

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

Form C-103
Revised 10-1-7

5a. Indicate Type of Lease
State ☐ Fee ☒
5. State Oil & Gas Lease No.

SUNDRY NOTICES AND REPORTS ON WELLS

(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT -" (FORM C-101) FOR SUCH PROPOSALS.)

1. ☒ OIL WELL ☐ GAS WELL ☐ OTHER	7. Unit Agreement Name
2. Name of Operator Marathon Oil Company	8. Farm or Lease Name Benson
3. Address of Operator P. O. Box 552, Midland, Texas 79702	9. Well No. 1
4. Location of Well UNIT LETTER <u>P</u> <u>330</u> FEET FROM THE <u>South</u> LINE AND <u>990</u> FEET FROM THE <u>East</u> LINE, SECTION <u>14</u> TOWNSHIP <u>16-S</u> RANGE <u>38-E</u> N.M.P.M.	10. Field and Pool, or Wildcat Wildcat
15. Elevation (Show whether DF, RT, GR, etc.) GR 3698'	12. County Lea

Check Appropriate Box To Indicate Nature of Notice, Report or Other Data
NOTICE OF INTENTION TO: SUBSEQUENT REPORT OF:

PERFORM REMEDIAL WORK ☐	PLUG AND ABANDON ☐	REMEDIAL WORK ☐	ALTERING CASING ☐
TEMPORARILY ABANDON ☐	CHANGE PLANS ☐	COMMENCE DRILLING OPS. ☐	PLUG AND ABANDONMENT ☐
PULL OR ALTER CASING ☐	OTHER ☐	CASING TEST AND CEMENT JOBS ☒	OTHER ☐

17. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work) SEE RULE 1103.

11/25/86 TD 5030'. Ran 124 joints of 9-5/8" 35#/ft. and 40#/ft. N-80 and K-55 casing to 5017'. Cemented with 1765 sx. Lite w/ 1/4 lb./sx. celloseal and 250 sx. Class "H". Plug down at 5:30 a.m. on 11/26/86. Circulated 25 sx. to surface. Nippled down BOP and set slips. Cut off casing and NU BOP. Tested casing to 2000 psi for 30 minutes. Tested valves, blind rams, and pipe rams to 3000 psi for 10 minutes.

Resumed drilling at 5:20 a.m. on 11/27/86.

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

SIGNED E. M. Pugh TITLE Engineer DATE Jan. 22, 1987

ORIGINAL SIGNED BY JERRY SEXTON
DISTRICT 1 SUPERVISOR

APPROVED BY _____ TITLE _____ DATE JAN 26 1987

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ENERGY AND MINERALS DEPARTMENT

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

Form C-103
Revised 10-

5a. Indicate Type of Lease
State ☐ Fee ☐
5. State Oil & Gas Lease No.

SUNDRY NOTICES AND REPORTS ON WELLS
(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR.
USE "APPLICATION FOR PERMIT -" (FORM C-101) FOR SUCH PROPOSALS.)

1. OIL WELL ☒ GAS WELL ☐ OTHER ☐	7. Unit Agreement Name
2. Name of Operator Marathon Oil Company	8. Farm or Lease Name Benson
3. Address of Operator P. O. Box 552, Midland, Texas 79702	9. Well No. 1
4. Location of Well UNIT LETTER P 990 FEET FROM THE East LINE AND 330 FEET FROM THE South LINE, SECTION 14 TOWNSHIP 16-S RANGE 38-E NMPM.	10. Field and Pool, or Wildcat Wildcat
15. Elevation (Show whether DF, RT, GR, etc.) GR 3698	12. County Lea

16. Check Appropriate Box To Indicate Nature of Notice, Report or Other Data
NOTICE OF INTENTION TO:

PERFORM REMEDIAL WORK ☐
TEMPORARILY ABANDON ☐
PULL OR ALTER CASING ☐
OTHER ☐

PLUG AND ABANDON ☐
CHANGE PLANS ☐
OTHER ☐

SUBSEQUENT REPORT OF:

REMEDIAL WORK ☐
COMMENCE DRILLING OPNS. ☒
CASING TEST AND CEMENT JOBS ☐
OTHER ☐
ALTERING CASING ☐
PLUG AND ABANDONMENT ☐

17. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work) SEE RULE 1703.

This new well was spudded on November 15, 1986. A 17-1/2" hole was drilled to 320'. 13-3/8" casing was run to 319', and cemented with 355 sx. of Class "C" containing 2% CaCl₂. Cement did not circulate. Cemented down backside with 75 sx. of cement using 1" pipe. Circulated 10 sx. to the pit. Welded on casinghead, nipped-up and tested BOP stack. Started drilling ahead 12-1/4" hole on November 16, 1986.

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

SIGNED Thomas F. Z... TITLE Prod. Engineer DATE Nov. 21, 1986

ORIGINAL SIGNED BY JERRY SEXTON

APPROVED BY DISTRICT SUPERVISOR

TITLE NOV 26 1986

CONDITIONS OF APPROVAL, IF ANY:

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NEW MEXICO OIL CONSERVATION COMMISSION

Form C-101
Revised 1-1-65

5A. Indicate Type of Lease	
STATE ☐	FEC ☒
5. State Oil & Gas Lease No.	

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. Type of Work		7. Unit Agreement Name	
b. Type of Well DRILL ☒ DEEPEN ☐ PLUG BACK ☐ OIL WELL ☒ GAS WELL ☐ OTHER ☐ SINGLE ZONE ☒ MULTIPLE ZONE ☐		8. Firm or Lease Name Benson	
2. Name of Operator Marathon Oil Company		9. Well No. 1	
3. Address of Operator P. O. Box 552 Midland, Tex. 79701		10. Field and Pool, or Wildcat Wildcat	
4. Location of Well UNIT LETTER P LOCATED 990 FEET FROM THE East LINE AND 330 FEET FROM THE South LINE OF SEC. 14 TWP. 16S REC. 38E NMPM		12. County Lea	
19. Proposed Depth 13,500		19A. Formation Siluro-Devonian	20. Rotary or C.T. Rotary
21. Elevations (Show whether D.F., K.T., etc.) GR 3698	21A. Kind & Status Plug. Bond Current	21B. Drilling Contractor Undesignated	22. Approx. Date Work will start Nov. 15, 1986

PROPOSED CASING AND CEMENT PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	SACKS OF CEMENT	EST. TOP
17 1/2"	13 3/8"	48#	300'	315	Surface
12 1/4"	9 5/8"	36#	5000'	1200	Surface
8 1/2"	5 1/2"	17.20#	13,500'	1500	4500'

Intend to drill to approximately 13,500. Casing will be cemented and tested by approved methods.

40' of 20" conductor pipe will be cemented in place.

Blowout control equipment to be used will be 13 5/8" 3000# WP Annular and 3000# WP dual rams for the intermediate hole and 11" 5000# WP Annular and 5000# WP dual rams for the production hole. All BOP equipment will be tested according to approved procedures. Remote controls will be located on the derrick floor with a closing unit a minimum of 75' from the wellhead.

Permit Expires 6 Months From Approval
Date Unless Drilling Underway.

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM; IF PROPOSAL IS TO DEEPEN OR PLUG BACK, GIVE DATA ON PRESENT PRODUCTIVE ZONE AND PROPOSED NEW PRODUCTIVE ZONE. GIVE BLOWOUT PREVENTER PROGRAM, IF ANY.

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

Signed Thomas G. Sexton Title Production Engineer Date October 31, 1986

(This space for State Use)

ORIGINAL SIGNED BY JERRY SEXTON

APPROVED BY DISTRICT 1 SUPERVISOR TITLE DATE

CONDITIONS OF APPROVAL, IF ANY:

NOV 4 1986

**N. 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.

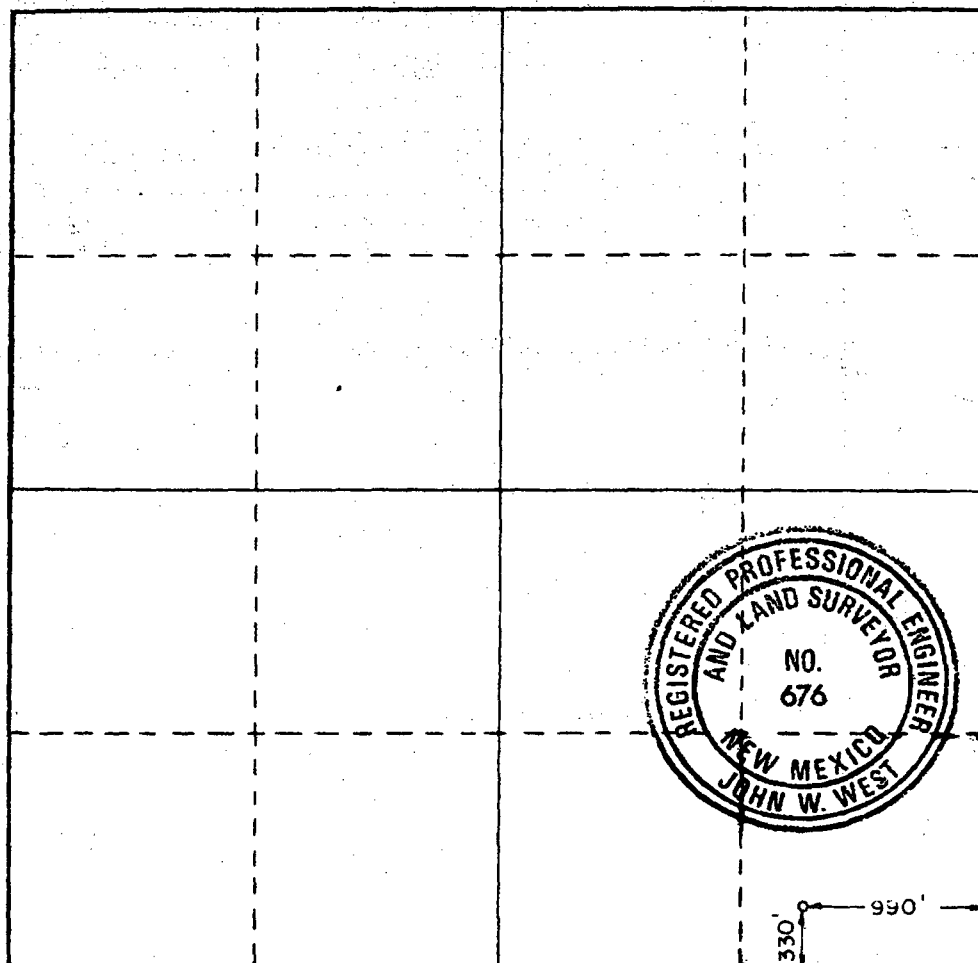
Operator MARATHON OIL CO.			Lessee BENSON		Well No. 1
Unit Letter P	Section 14	Township 16S	Range 38E	County LEA	
Actual Footage Location of Well: 990 feet from the EAST line and 330 feet from the SOUTH line.					
Ground Level Elev. 3698.0	Producing Formation Siluro-Devonian		Pool Wildcat		Dedicated Acreage: 40 Acres

1. Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below.
2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
3. If more than one lease of different ownership is dedicated to the well, have the interests of all owners been consolidated by communitization, unitization, force-pooling, etc?

☐ Yes ☐ No If answer is "yes," type of consolidation _____

If answer is "no," list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if necessary.) _____

No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, forced-pooling, or otherwise) or until a non-standard unit, eliminating such interests, has been approved by the Commission.



CERTIFICATION

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

Thomas E. Zaparka

Name
Thomas E. Zaparka
Position
Production Engineer
Company
Marathon Oil Co.
Date
October 31, 1986

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 knowledge and belief.

Date Surveyed
OCTOBER 28, 1986

Registered Professional Engineer and/or Land Surveyor

John W. West

Certificate No. **JOHN W. WEST, 676**
RONALD J. EIDSON, 3239

WRS COMPLETION REPORT

SEC 14 TWP 16S RGE 38E
30-025-29787-0000 PAGE 1

NMEX LEA * 330FSL 990FEL SEC SE SE
STATE COUNTY FOOTAGE SPOT
MARATHON OIL WD WDD
OPERATOR WELL CLASS INIT FIN
1 BENSON
WELL NO. LEASE NAME
3723KB 3698GR KNOWLES N
OPER ELEV FIELD/POOL/AREA
API 30-025-29787-0000
LEASE TYPE/NO. PERMIT OR WELL LD. NO.
11/15/1986 03/01/1987 ROTARY OIL
SPUD DATE COMP. DATE TYPE TOOL STATUS
13500 DEVONIAN MCVAY DRLG 10 RIG SUB 24
PROJ. DEPTH PROJ. FORM CONTRACTOR
DTD 13345 PB 13248 FM/TD DEVONIAN
DRILLERS T.D. LOG T.D. PLUG BACK TO OLD T.D. FORM T.D.

LOCATION DESCRIPTION

13 MI SE LOVINGTON, NM

WELL IDENTIFICATION/CHANGES

FIELD CHGD FROM WILDCAT
PROJ FM CHGD FROM SILURO-DEVONIAN

CASING/LINER DATA

CSG 20 @ 40
CSG 13 3/8 @ 319 W/ 430 SACKS
CSG 9 5/8 @ 5017 W/ 2015 SACKS
CSG 5 1/2 @ 13344 W/ 1800 SACKS

TUBING DATA

TBG 2 7/8 AT 9035

INITIAL POTENTIAL

IPP 313BOPD 11.4MCFD 120BW 24HRS
DEVONIAN PERF JET W/ 104/IT 13120-13150 GROSS
GTY 46.9 GOR 36

TYPE	FORMATION	LTH	TOP DEPTH/SUB	BSE DEPTH/SUB
LOG	SN ANDRS		5010 -1287	
LOG	GLORIETA		6327 -2604	
LOG	PADDOCK		6524 -2801	

CONTINUED IC# 300257032086

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Petroleum Information

PI-WRS-GET
Form No 187

DBB a company of
The Dun & Bradstreet Corporation

COMPLETIONS SEC 14 TWP 16S RGE 38E
 PI# 30-T-0013 06/22/87 30-025-29787-0000 PAGE 2

MARATHON OIL WD WDD
 1 BENSON

TYPE	FORMATION	LTH	TOP	DEPTH/SUB	BSE	DEPTH/SUB
LOG	TUBB		7692	-3969		
LOG	ABO		8320	-4597		
LOG	WOLFCAMP		9490	-5767		
LOG	ATOKA		11290	-7567		
LOG	DEVONIAN		13118	-9395		

FORMATION TEST DATA

DST 1 13130-13220 DEVONIAN CUSH 2000 WTR S
 REC 1600.0 FT OIL 200.0 FT O&GCM
 REC 2000.0 FT WCUSH 2300.0 CC OIL
 REC 300.0 CC MUD
 INIT OP 15M IFP 867
 FINAL OP 2H IFP 1233
 ISIP 4709 30M FSIP 4765 4H40M IHP 6491 FHP 6278
 SPL CHAM PRESS FINAL 265
 WEAK BLOW ON IF, FAIR BLOW INCREASING TO 18 OZ AT END
 OF FINAL FLOW
 NO OTHER PRESSURES RPTD

DST 2 13175-13245 DEVONIAN CUSH 2000 WTR
 REC 180.0 FT MUD 2000.0 FT WCUSH
 REC 2600.0 CC MUD
 INIT OP 17M IFP 976
 FINAL OP 1H IFP 1044
 ISIP 4992 1H FSIP 5025 2H IHP 6597 FHP 6597
 SPL CHAM PRESS FINAL 115
 WEAK BLOW IN IF & FF
 NO OTHER PRESSURES RPTD

DST 3 - MISRUN
 PKR SEAT FAILED

DST 4 13221-13295 DEVONIAN CUSH 2500 WTR
 REC 965.0 FT MUD 2500.0 FT WCUSH
 REC 2600.0 CC MUD
 INIT OP 15M IFP 1657
 FINAL OP 1H IFP 1667
 ISIP 1954 30M FSIP 2337 2H IHP 6453 FHP 6447
 SPL CHAM PRESS FINAL 75
 WEAK BLOW IN IF, NO BLOW IN FF
 NO OTHER PRESSURES RPTD

CONTINUED

COMPLETIONS SEC 14 TWP 16S RGE 38E
PI# 30-T-0013 06/22/87 30-025-29787-0000 PAGE 3

MARATHON OIL
1

BENSON

WD WDD

PRODUCTION TEST DATA

PTP 301BOPD 261BW 24HRS
DEVONIAN PERF W/ 104/IT 13120-13150 GROSS
PERF 13120-13130 13130-13150
ACID 13120-13150 6000GALS
15% NEFE HCL
ACFR 13120-13150 30000GALS
20% HCL

LOGS AND SURVEYS /INTERVAL,TYPE/

LOGS
LOGS

GR
LDT

DLL
BHC

CNL
SONL

DRILLING PROGRESS DETAILS

MARATHON OIL
BOX 552
MIDLAND, TX 78702
915-682-1626
11/04 LOC/1986/
11/20 DRLG 2200
11/25 DRLG 5030
12/04 DRLG 7050
12/11 DRLG 9204
12/18 DRLG 10200
12/22 DRLG 11370
12/29 DRLG 11989
01/08 DRLG 12122
01/15 DRLG 13027
01/22 DRLG 13295 (DOLO)
01/29 13345 TD, WOCT
02/02 13345 TD, WOCT
02/05 13345 TD, RECG LD
02/12 13345 TD, PB 13248, TSTG
02/19 13345 TD, PB 13248, TSTG
02/26 13345 TD, PB 13248, TSTG
03/04 13345 TD, PB 13248, WOFT
06/15 RIG REL 01/26/87
13345 TD, PB 13248
COMP 3/1/87, IPP 313 BO, 11.4 MCFG, 120
BWPD, GOR 36, GTY 46.9
PROD ZONE - DEVONIAN 13120-13150

CONTINUED

COMPLETIONS SEC 14 TWP 16S RGE 38E
PI# 30-T-0013 06/22/87 30-025-29787-0000 PAGE 4

MARATHON OIL 1 BENSON WD WDD

DRILLING PROGRESS DETAILS

06/15 NO CORES, FOUR DSTS RPTD
DEVONIAN DISCOVERY - DEEPER POOL
FIELD DESIGNATED KNOWLES NORTH