



NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

GARY E. JOHNSON
Governor
Jennifer A. Salisbury
Cabinet Secretary

Lori Wrotenbery
Director
Oil Conservation Division

30-045-23636

March 20, 2001

Office of the Secretary
Federal Energy Regulatory Commission
888 First Street, N.E.
Washington, DC 20426
Attn: Marilyn Rand

RE: Hallwood Petroleum, Inc.
Robinson Brothers Well No. 1M

Ms. Rand:

Enclosed is your copy of the approved NGPA application for the above applicant.

Sincerely,

Kathy Valdés
Clerk Specialist

Enclosure

State of New Mexico

ENERGY - MINERALS DEPARTMENT

Form E-132
Revised 10/1/96

OIL CONSERVATION DIVISION
2040 Pacheco St.

Santa Fe, NM 87505

FOR DIVISION

USE ONLY:

APPLICATION FOR WELLHEAD PRICE CEILING CATEGORY DETERMINATION

APPROPRIATE FILING FEE(S) ENCLOSED? YES NO

DATE COMPLETE APPLICATION FILED Nov. 29, 2000

DATE DETERMINATION MADE March 20, 2001

WAS APPLICATION CONTESTED? YES NO

NAME(S) OF INTERVENOR(S), IF ANY:

FILING FEE(S)
Effective October 1, 1986,
a non-refundable filing fee
of \$25.00 per category for
each application is mandatory.
(Rule 2, Order No. R-5878-8-3)

3A. Indicate Type of Lease STATE <input type="checkbox"/> FEE <input checked="" type="checkbox"/>
5. State Oil & Gas Lease No.
7. Unit Agreement Name
8. Form or Lease Name Robinson Brothers
9. Well No. 1-M
10. Field and Pool, or Willacat Basin Fruitland Coal
12. County San Juan

2. Name of Operator
Hallwood Petroleum, Inc.

3. Address of Operator
P.O. Box 378111, Denver, CO 80237

4. Location of Well
UNIT LETTER N LOCATED 820 FEET FROM THE South LINE

2220 FEET FROM THE West LINE OF SEC. 34 TWP. 32N RGE. 13W

11. Name and Address of Purchaser(s)
N/A

Check appropriate box for category sought and information submitted. Enter required information on lines 1 and 2, below.

- Category(ies) sought (By NGPA Section No.) 107 - Coal Seam
- Filing Fee(s) Amount enclosed: \$ 25.00
- All applications must contain:
 - a. C-101 APPLICATION FOR PERMIT TO DRILL, DEEPEN OR PLUG BACK
 - b. C-105 WELL COMPLETION OR RECOMPLETION REPORT
 - N/A c. DIRECTIONAL DRILLING SURVEY, IF REQUIRED UNDER RULE 111
 - N/A d. AFFIDAVITS OF MAILING OR DELIVERY
- In addition to the above, all applications must contain the items required by the applicable rule of the Division's "Special Rules for Applications for Wellhead Price Ceiling Category Determinations" as follows:
 - A. NEW NATURAL GAS UNDER SEC. 102(c)(1)(B) (using 2.5 Mile or 1000 Feet Deeper Test)
 - All items required by Rule 14(1) and/or Rule 14(2)
 - B. NEW NATURAL GAS UNDER SEC. 102(c)(1)(C) (new onshore reservoir)
 - All items required by Rule 15
 - C. NEW ONSHORE PRODUCTION WELL UNDER SEC. 103
 - All items required by Rule 16A or Rule 16B
 - D. SEC. 107 HIGH-COST NATURAL GAS (TIGHT FORMATION, DEEP, COAL SEAM, AND PRODUCTION ENHANCEMENT)
 - All items required by Rule 17(1), Rule 17(2), Rule 17(4), or Rule 17(5)
 - E. STRIPPER WELL NATURAL GAS UNDER SEC. 108
 - All items required by Rule 18

I HEREBY CERTIFY THAT THE INFORMATION CONTAINED HEREIN IS TRUE AND COMPLETE TO THE BEST OF MY KNOWLEDGE AND BELIEF.

Robert L. Slyter

NAME OF APPLICANT (TYPE OR PRINT)

SIGNATURE OF APPLICANT

Sr. Contract Administrator

Title

Date 11/27/00

FOR DIVISION USE ONLY

- Approved
- Disapproved

The information contained herein includes all of the information required to be filed by the applicant under Subpart B of Part 274 of the FERC regulations.

EXAMINER

A. THE NGPA WELL CATEGORY DETERMINATION IS BEING SOUGHT FOR A WELL PRODUCING:

- A1 occluded natural gas from coal seams.
- A2 natural gas from Devonian shale.
- A3 natural gas from a designated tight formation.

B. FOR ALL APPLICATIONS FOR DETERMINATION PROVIDE THE FOLLOWING:

- 1. Well Name and No.* Robinson Brothers 1-M
- 2. Completed in (Name of Reservoir) * Basin Fruitland Coal
- 3. Field * Basin Fruitland Coal
- 4. County * San Juan
- 5. State * ~~Colorado~~ *New Mexico*
- 6. API Well No. (14 digits maximum. If not assigned, leave blank.)
30-045-23636
- 9. Measured Depth of the Completed Interval (in feet)
TOP 2,040 ft. BASE 2,070 ft.

C. APPLICANT'S MAILING ADDRESS AND THE IDENTITY OF THE PERSON WHO IS RESPONSIBLE FOR APPLICATION:

- 1. Applicant's Name * Hallwood Petroleum, Inc.
- 2. Street * 4610 So. Ulster Street, Suite 200
- 3. City * Denver
- 4. State* Colorado 5. Zip Code 80237
- 6. Name of Person Responsible * Robert L. Slyter
- 7. Title of Such Person * Senior Contract Administrator
- 8. Signature *Robert L. Slyter* and Phone No. (303) 850-6326

* SIGNIFIES THAT LINE ENTRY MAY CONTAIN UP TO 35 LETTERS AND/OR NUMBERS.

APPLICATION FOR DETERMINATION

GENERAL INSTRUCTIONS

1. Purpose: This form is to be used to provide basic data on each application for a well category determination that is filed with a Jurisdictional Agency to qualify the natural gas produced from such well as (a) occluded natural gas produced from coal seams, under section 107(c)(3) of the Natural Gas Policy Act of 1978 [15 U.S.C. 3301] (NGPA), (b) natural gas produced from Devonian shale, under section 107(c)(4) of the NGPA, or (c) natural gas produced from a designated tight formation, under section 107(c)(5) of the NGPA, in order to substantiate the eligibility of such natural gas for a tax credit under Section 29 of the Internal Revenue Code. The Commission will use this data, together with the other information contained in the Jurisdictional Agency's notice of determination, to evaluate whether substantial evidence exists to support the determination.

2. Who must submit: Anyone who files an application with a Jurisdictional Agency identified under Section 270.401 of the Commission's Regulations for a well category determination.

3. What and where to submit: The original of this form, and all of the information required by Section 270.302, 270.303, 270.304, or 270.306 of the Commission's Regulations must be filed with the Jurisdictional Agency. The Jurisdictional Agency making a determination must file the original of this form, with all of the other information required under the applicable Commission Regulations, with the ~~Office of the Secretary, Federal Energy Regulatory Commission, 888 First Street, N.E., Washington D.C. 20426.~~ Applicants should retain one copy of each completed form for their files for 4 years.

4. These are mandatory filing requirements.

5. The data on this form are not considered confidential and will not be treated as such.

6. Where to send comments on the public reporting burden: The public reporting burden for this collection of information is estimated to average 0.25 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate, or any aspect of this collection of information, including suggestions for reducing this burden, to the Federal Energy Regulatory Commission, 888 First Street, N.E., Washington D.C. 20426 (Attention: Mr. Michael Miller, CI-1) and to the Office of Information and Regulatory Affairs, Office of Management and Budget, Washington D.C. 20503 (Attention: Desk Officer for the Federal Energy Regulatory Commission). Persons subject to providing this information will not be penalized for failing to respond to these collections of information unless the collection of information displays a valid OMB control number.

STATEMENT UNDER OATH

Well: Robinson Brothers 1-M

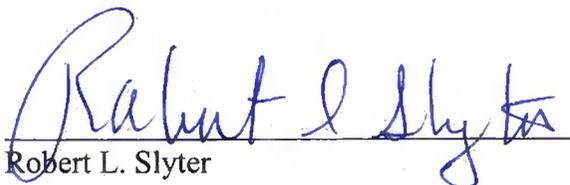
API#: 30-045-23636

STATE OF COLORADO)
 : ss.
County of Denver)

ROBERT L. SLYTER certifies that he is Senior Contract Administrator of Hallwood Petroleum, Inc., and swears or affirms that to the best of his knowledge, information and belief that the gas is produced from a coal seam through a re-completion commenced after January 1, 1993, in a well the surface drilling of which began after December 31, 1979, but before January 1, 1993.

The applicant has no knowledge of any information not described in the application which is inconsistent with his conclusion.

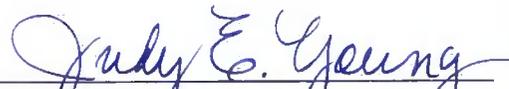
DATED this 27th day of November, 2000.


Robert L. Slyter

SUBSCRIBED AND SWORN TO before me this 27th day of November, 2000.

(Seal)




Notary Public for the State of Colorado;
Residing at Denver, Colorado;
My commission expires:

4/19/01

Hallwood Petroleum, Inc.

4610 S. Ulster Street • Suite 200 • P.O. Box 378111
Denver, Colorado 80237 • (303) 850-7373

November 28, 2000

State of New Mexico
Energy and Minerals Department
Oil Conservation Division
2040 Pacheco Street
Santa Fe, NM 87505



Attention: Mike Stogner

RE: Application for Coal Seam Well determination
Robinson Brothers 1-M – API #30-045-23636

Dear Mr. Stogner:

FERC Final Rule (Order 616) reinstated wellhead determination procedures under the Natural Gas Policy Act. Specifically the rule established amended filing requirements for Section 107 gas that qualifies for a Tax Credit under Section 29 of the Internal Revenue Code.

Enclosed is our check in the amount of \$25.00 (filing fee) and three complete (as amended) Coal Seam Applications for the above well. Please date stamp and return one of the originals to my attention.

If you have any questions or need additional information please call me at 303-850-6326 (my business card is enclosed).

Sincerely,

Robert L. Slyter
Sr. Contract Administrator

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-105
Revised 1-1-89

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

OIL CONSERVATION DIVISION
P.O. Box 2080
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.
30-045-23636

5. Indicate Type of Lease
STATE FEDERAL

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 DOW RESVR OTHER

7. Lease Name or Unit Agreement Name
Robinson Brothers

2. Name of Operator
Hallwood Petroleum, Inc.

8. Well No.
1-M

3. Address of Operator
P.O. Box 378111, Denver, CO 80237

9. Pool name or Wildcat
BASIN FRUITLAND COAL

4. Well Location
Unit Letter N : 820 Feet From The South Line and 2220 Feet From The West Line
Section 34 Township 32N Range 13W NMPM San Juan County

10. Date Spudded: 6/11/80
11. Date T.D. Reached: 10/23/80
12. Date Compl. (Ready to Prod.): 3/16/94
13. Elevations (DF & RKB, RT, GR, etc.): 5829' GR, 5842' KB
14. Elev. Casinghead: 5829'

15. Total Depth: 6980'
16. Plug Back T.D.: 4400'
17. If Multiple Compl. How Many Zones?
18. Intervals Drilled By: Rotary Tools
Cable Tools

19. Producing Interval(s), of this completion - Top, Bottom, Name
Basin Fruitland Coal
20. Was Directional Survey Made
No

21. Type Electric and Other Logs Run
No new logs run
22. Was Well Cored
No

CASING RECORD (Report all strings set in well)

CASING SIZE	WEIGHT LB./FT.	DEPTH SET	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
8-5/8	24# J-55	257	12-1/4	250 sxs	0
5-1/2	15.5	6963	7-7/8	1250 sxs	0

24. LINER RECORD				25. TUBING RECORD			
SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN	SIZE	DEPTH SET	PACKER SET
N/A	N/A	N/A	N/A	N/A	2-3/8 4.7#	2023	4380'

26. Perforation record (interval, size, and number)
2040-2070' 8 JSPF, .5", 240

27. ACID, SHOT, FRACTURE, CEMENT, SQUEEZE, ETC.
DEPTH INTERVAL: 2040-2070'
AMOUNT AND KIND MATERIAL USED: 1652 bbl fluid, 15,640# of 40/70, 195,000# of 12/20 sand

PRODUCTION

28. Date First Production: 2/6/94
Production Method (Flowing, gas lift, pumping - Size and type pump): Pumping - 1.5 RWAC Pump
Well Status (Prod. or Shut-in): SI w/o Pipeline

Date of Test	Hours Tested	Choke Size	Prod'n For Test Period	Oil - Bbl.	Gas - MCF	Water - Bbl.	Gas - Oil Ratio
2/22/94	24	Open		0	126	74	N/A

Flow Tubing Press.	Casing Pressure	Calculated 24-Hour Rate	Oil - Bbl.	Gas - MCF	Water - Bbl.	Oil Gravity - API - (Corr.)
100	100		0	126	74	N/A

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

30. List Attachments
Wellbore Diagram

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: Bruce Hoffman Printed Name: Bruce Hoffman Title: Sr. Engr. Tech. Date: 2/2/94

OIL CONSERVATION DIVISION

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

3 Copies
District Office
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

WELL API NO. 30-045-23636
5. Indicate Type of Lease STATE <input type="checkbox"/> FCC <input checked="" type="checkbox"/>
6. State Oil & Gas Lease No.
7. Lease Name or Unit Agreement Name Robinson Brothers
8. Well No. 1-M
9. Pool name or Wildcat Basin Fruitland Coal

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 _____
 Name of Operator
 Hallwood Petroleum, Inc.
 Address of Operator
 P.O. Box 378111, Denver, CO 80237

Well Location
 Unit Letter N : 820 Feet From The South Line and 2220 Feet From The West Line
 Section 34 Township 32N Range 13W NMPM San Juan County
 10. Elevations (Show whether LF, RKB, RT, GR, etc.)
5,829' GR, 5,842' KB

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

NOTICE OF INTENTION TO:	SUBSEQUENT REPORT OF:
PERFORM REMEDIAL WORK <input type="checkbox"/>	REMEDIAL WORK <input type="checkbox"/>
TEMPORARILY ABANDON <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
WELL OR ALTER CASING <input type="checkbox"/>	COMMENCE DRILLING OPNS. <input type="checkbox"/>
OTHER: _____ <input type="checkbox"/>	PLUG AND ABANDONMENT <input type="checkbox"/>
	CASING TEST AND CEMENT JOB <input type="checkbox"/>
	OTHER: <u>Plug Back/Recompletion</u> <input checked="" type="checkbox"/>

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.

From the period 1/26/94-2/3/94 Hallwood Petroleum, Inc. abandoned the Dakota and Mesa Verde formations in the Robinson Brothers 1-M and plug backed (recompleted) uphole to the Basin Fruitland Coal 2,040-2,070' detailed procedure of the work performed and a wellbore diagram are attached for your records. This well is now classified in the "Basin Fruitland Coal" Field.

MAR 25 1994
OIL CON. DIV.
 DIST. 3

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

SIGNATURE Bruce Hoffman TITLE Sr. Engineering Tech. DATE 3/22/94
 TYPE OR PRINT NAME Bruce Hoffman TELEPHONE NO. _____

(This space for State Use)
 APPROVED BY Original Signed by CHARLES GHOLSON TITLE DEPUTY OIL & GAS INSPECTOR, DIST. #3 DATE MAR 25 1994
 CONDITIONS OF APPROVAL, IF ANY:

Robinson Brothers #1-M
La Plata (FC) Field
San Juan County, New Mexico
OP: Hallwood Petroleum, Inc.

WESTERN DISTRICT
SPG 1227
AFE #3142006 - \$118,300
100% WI

PROCEDURE: Recomplete to Fruitland Coal.

- *****
01/26/94 FIRST REPORT. MI & RU R & S Well Service PU #18 on 1/25/94
pull out of pkr w/ 1-1/2" tbg.
- 01/27/94 PO: Fin POOH w/ tbg & pkr laying down total 1-1/2" 2.90# J-55
tbg 206 jts @ 6,684.90'. Total 1-1/4" 2.40# J-55 tbg @
4,585.30' (142) jts.
- 01/28/94 Fin TOH w/ tbg, did not have pkr. RIH w/ 4-3/4" gauge ring & junk
basket, tag pkr @ 4,842'. Called State of New Mexico OCD, Mr.
Ernie Busch & he "OK'ed" to set CIBP & cmt ret. RIH w/
5-1/2" CIBP on WL & set CIBP @ 4,830' KB. RIH & dump 30' cmt on
CIBP @ 4,830'. RIH w/ 5-1/2" cmt ret & set @ 4,480' top MV perf
@ 4,536'.
- 01/29/94 RU Western Company press test csg to 1100 psi, 15 min (OK). Test
tbg to 1000 psi, test OK. Stung tool into cmt ret @ 4,480',
establish inj rate into MV perfs 2 BPM @ 100 psi. Mix & pmpd 50
sxs class "B" cmt @ 2 bbl min, final press 500 psi. Stung out of
ret & spot 2 bbl cmt on top of ret, rev circ 22 bbl H₂O. POOH w/
tbg, total cmt below cmt ret 3 bbl, 2 bbl cmt on top of cmt ret.
- 02/01/94 PBD 4,400', SICP 0. RU Petro WL & perforated Basin Fruitland
Coal with 8 JSPF from 2,040-2,070' w/ 4" HSC csg gun w/ 90°
phasing.
- 02/02/94 RU Western Co., install 5-1/2" isolation tool, pump Viking gel
frac on Fruitland Coal. Pump total of 1652 bbl of fluid, 15,640#
of 40/70, 195,000# of 12/20 sand.
- 02/03/94 RIH w/ tbg to 2,200', no tag, POH w/ tbg. TIH w/ production tbg,
1 jt MA. Bottom of tbg @ 2,023' CKB, SN @ 1,987', 1-1/2 RWAC
pump. Seat pump & space out, check pump action, will RD in
morning.
- 02/22/94 Produced 126 MCF & 74 BW @ 100 psi.

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

API NO. (assigned by OCD on New Wells)
 30-045-23636
 5. Indicate Type of Lease
 STATE FEE
 6. State Oil & Gas Lease No.

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
 Hallwood Petroleum, Inc.

3. Address of Operator
 P. O. Box 378111, Denver, Colorado 80237

4. Well Location
 Unit Letter N : 820 Feet From The South Line and 2220 Feet From The West Line
 Section 34 Township 32N Range 13W NMPM San Juan County

7. Lease Name or Unit Agreement Name
 Robinson Brothers

8. Well No.
 1-M

9. Pool name or Wildcat
 Basin Fruitland Coal

10. Proposed Depth
 2100'

11. Formation
 Fruitland Coal

12. Rotary or C.T.
 N/A

13. Elevations (Show whether DF, RT, GR, etc.)
 5829' GR, 5842' KB

14. Kind & Status Plug. Bond
 Blanket B1595231

15. Drilling Contractor
 N/A
 Already drilled

16. Approx. Date Work will start
 2/1/94

17. **PROPOSED CASING AND CEMENT PROGRAM**

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	SACKS OF CEMENT	EST. TOP
12 1/4	8 5/8"	24#	257	250	0
7 7/8	5 1/2"	15.50#	6963	1250*	0

*3 Stage cement job, circulated out 20 bbls. cement on top (last) stage.

Hallwood Petroleum, Inc. is the new operator for the subject well. Hallwood proposes to abandon the Dakota and Mesa Verde formations per the attached procedure and plug back and recomplete to the Basal Fruitland Coal formation at 2040-2070'.

RECEIVED
 JAN 25 1994
 OIL CON. DIV.
 DIST. 3

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 Kevin O'Connell TITLE Drilling & Production Manager DATE 1/18/94

TYPE OR PRINT NAME Kevin O'Connell (303) TELEPHONE NO. 850-7373

(This space for State Use)
 APPROVED BY [Signature] TITLE DEPUTY OIL & GAS INSPECTOR, DIST. #3 DATE JAN 26 1994

CONDITIONS OF APPROVAL, IF ANY:

Hold C-104 for 10% of Robinson 34 #2 well

**ROBINSON BROTHERS #1-M (FC)
FRUITLAND COAL RECOMPLETION**

WELL DATA:

ELEVATIONS: 5,842' KB
5,829' GL
13' Difference

TOTAL DEPTH: 6,980'

SPUD DATE: 6/11/80

CASING: 8-5/8" surface at 257', cemented with 250 sacks.

5-1/2" production at 6,963', cemented with 1,250 sacks cement to surface.

OPEN PERFS: Dakota: 6,714-6,830'
6,893-6,915'
Mesaverde: 4,536-4,757'

API#: 30-045-23636

PROCEDURE:

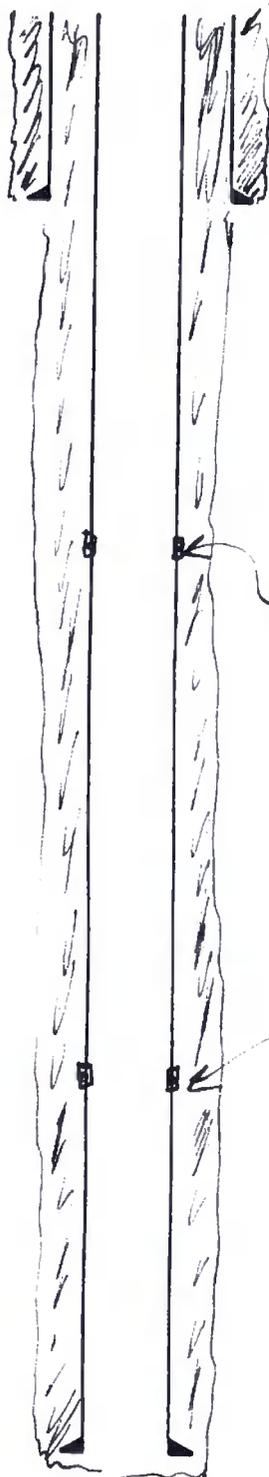
1. MIRUSU, set anchors if necessary.
2. Kill well, ND tree & NU BOP's.
3. Strap out of hole with tubing.

NOTE: Reports are sketchy right now as to what is in the well. We will hopefully obtain more information on the downhole equipment and packer after purchase transaction is completed. Completion records show 1-1/2" tubing to 6,699' with a packer at 4,840' (for Dakota) and 1-1/4" tubing at 4,585'.
4. Run in hole with tubing and circulate plug mud.
5. After tubing/packer are removed run in hole with 2-3/8" tubing and spot a 100' plug inside casing above Dakota perfs from 6,700-6,600'.
6. POH to 4,500' and spot a second 100' cement plug above the Mesaverde perfs.
7. POOH with tubing, RU wireline and set a CIBP at 2,500', cap with 35' of cement.
8. RIH and circulate hole over to fresh water or 2% KCL water.
9. Perforate the Basal Fruitland Coal a 2,040-2,070' with 8 SPF, 4-inch casing guns with 90° phasing.
10. Frac the Basal Fruitland Coal with approximately the following:
 - a. Spearhead 2,000 gallons 7-1/2% HCL acid.
 - b. 78,000 gallons 30# borate gelled system.
 - c. 18,000# 40/70 Brady sand.
 - d. 240,000# 12/20 Brady sand ramped up to 8 ppg.
11. After fracing well, and 4 hour shut-in, flow well until it dies, check for fill, clean out as needed.
12. Rod well up and pump test for several days.

Hallwood Energy Companies

Well History Record

CURRENT AS-15
WELLBORE



Surface
8 5/8 " ; 24 #
 Gr J-55 @ 257'
 Cmt.wl 250 Sxs.
 TOC @ SURFACE *
 Hole Size 12 1/4"
 Max Mud Wt. 8.6 #
 *Circ. 12 80LS CEMENT

DV TOOL 2323'

DV TOOL 4933'

Production
5 1/2 " ; 15.50 #
 Gr K-55 @ 6963'
 Cmt.wl 1250 ** ← Sxs
 TOC @ SURFACE
 Hole Size 7 7/8 "
 Max Mud Wt. 9.0 #

WELL: ROBINSON BROTHERS #1-M

LOCATION: UNIT N, 820' FSL x 2220' FWL
Sec. 34 - T32N - R13W, SAN JUAN CO, NM

SPUD DATE: 6-11-80

COMPL. DATE: 10-23-80

T.D.: 6980' P.B.T.D.: 6932'

FIELD: BLANCO MESA VERDE

ZONES: DAKOTA / MESA VERDE

PERFS: 4536 - 4757', 18 holes (MV)

6714 - 6915', 27 holes (DAKOTA)

↙ 6714 - 6830' + 6893 - 6915'

STIMULATION: FOAM FLACED

** LONG STRING CEMENTED WITH
 3 STAGE JOB:

STAGE 1: 450 SX 50/50 POZ

STAGE 2: 500 SX 50/50 POZ

STAGE 3: 350 SX 65/35 POZ

+ 400 SX 50/50 POZ

TOTAL 1700 SACKS

TOPS: PICTURED CLIFFS 2070'

CLIFF HOUSE 3710'

DAKOTA 6684'

KEO 1/17/94

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

State of New Mexico
 Energy, Minerals and Natural Resources Department

Form C-102
 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

WELL LOCATION AND ACREAGE DEDICATION PLAT

All Distances must be from the outer boundaries of the section

Operator Hallwood Petroleum, Inc.			Lease Robinson Brothers		Well No. 1-M
Unit Letter N	Section 34	Township 32N	Range 13W	County NMPM San Juan	

Actual Footage Location of Well:
 820 feet from the South line and 2220 feet from the West line

Ground level Elev. 5829'	Producing Formation Fruitland Coal	Pool Basin Fruitland Coal	Dedicated Acreage: (±) 320 Acres
-----------------------------	---------------------------------------	------------------------------	-------------------------------------

- Outline the acreage dedicated to the subject well by colored pencil or hatchure marks on the plat below.
- If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
- If more than one lease of different ownership is dedicated to the well, have the interest 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 interest, has been approved by the Division.

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

Signature: *Kevin E. O'Connell*

Printed Name: Kevin E. O'Connell

Position: Drlg. & Prod. Manager

Company: Hallwood Petroleum, Inc.

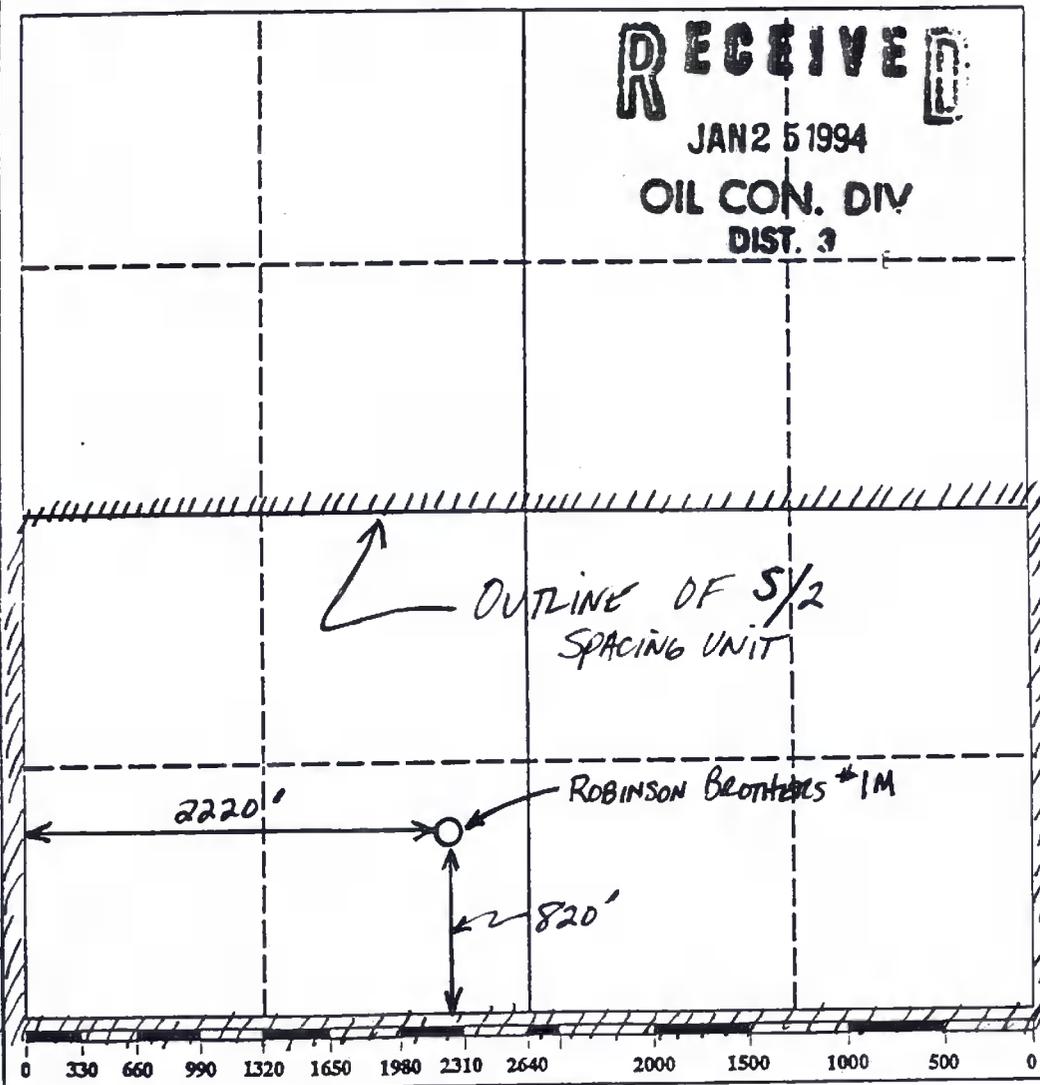
Date: January 17, 1994

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 knowledge and belief.

Date Surveyed: _____

Signature & Seal of Professional Surveyor: _____

Certificate No.: _____



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LAND OFFICE	
OPERATOR	

Form C-105
Revised 1-1-65

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

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

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. Unit Agreement Name
8. Farm or Lease Name
Robinson Brothers
9. Well No.
1-M
10. Field and Pool, or Wildcat
Basin Dakota

2. Name of Operator
Consolidated Oil & Gas, Inc.

3. Address of Operator
P. O. Box 2038 Farmington, NM 87401

4. Location of Well
UNIT LETTER **N** LOCATED **820** FEET FROM THE **South** LINE AND **2220** FEET FROM THE **West** LINE OR SEC. **34** TWP. **32N** RGE. **13W** NMPM

12. County
San Juan

15. Date Spudded **6-11-80** 16. Date T.D. Reached **7-4-80** 17. Date Compl. (Ready to Prod.) **10-23-80** 18. Elevations (DF, RKB, RT, GR, etc.) **5841 RKB** 19. Elev. Casinghead **5829**

20. Total Depth **6980** 21. Plug Back T.D. **6932** 22. If Multiple Compl., How Many **2** 23. Intervals Drilled By Rotary Tools Cable Tools

24. Producing Interval(s), of this completion - Top, Bottom, Name
6714 - 6915 Dakota 25. Was Directional Survey Made **No**

26. Type Electric and Other Logs Run
IES & Compensated Neutron 27. Was Well Cored **No**

28. CASING RECORD (Report all strings set in well)

CASING SIZE	WEIGHT LB./FT.	DEPTH SET	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
8-5/8	24#	257	12 1/2	250 Sks.	None
5 1/2	15 1/2#	6963	7-7/8	1250 Sks.	None

29. LINER RECORD 30. TUBING RECORD

SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN	SIZE	DEPTH SET	PACKER SET
					1 1/2	6699	4840

31. Perforation Record (Interval, size and number)
6714 to 6915
27 .32 Holes

32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL	AMOUNT AND KIND MATERIAL USED
6893 - 6915	31,000 gal. linked with 21,250 gal. sand
6714 - 6830	65,000 gal. linked with 75,000# sand

33. PRODUCTION

Date First Production **10-30-80** Production Method (Flowing, gas lift, pumping - Size and type pump) **Flow**

Date of Test **10-30-80** Hours Tested **3** Choke Size **3/4** Prod'n. For Test Period **→** Oil - Bbl. **143** Gas - MCF **1142** Water - Bbl. **85** Gas - Oil Ratio **Dist. 3**

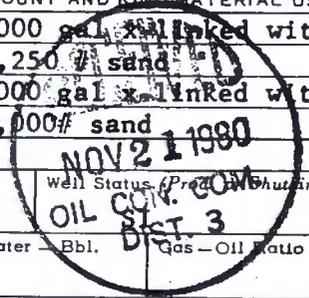
Flow Tubing Press. **85** Casing Pressure **→** Calculated 24-Hour Rate **→** Oil - Bbl. **1142** Gas - MCF **1142** Water - Bbl. **85** Oil Gravity - API (Corr.)

34. Disposition of Gas (Sold, used for fuel, vented, etc.) **Vented** Test Witnessed By **Sony Wilson**

35. List of Attachments

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 **Veryl Moore** TITLE **Production Supt.** DATE **11-12-80**



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Form C-105
Revised 1-1-65

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

5a. Indicate Type of Lease
State Fee

5. State Oil & Gas Lease No.

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. Unit Agreement Name

8. Farm or Lease Name
Robinson Bros.

9. Well No.
1-M

10. Field and Pool, or Wildcat
Blanco Mesa Verde

2. Name of Operator
Consolidated Oil & Gas, INC.

3. Address of Operator
P. O. Box 2038 Farmington, New Mexico 87401

4. Location of Well
UNIT LETTER **N** LOCATED **820** FEET FROM THE **South** LINE AND **2220** FEET FROM THE **West** LINE OF SEC. **34** TWP. **32N** RGE. **13W** NMPM

12. County
San Juan

15. Date Spudded **6-11-80** 16. Date T.D. Reached **7-4-80** 17. Date Compl. (Ready to Prod.) ~~11-6-80~~ **10-23-80** 18. Elevations (DF, RKB, RT, GR, etc.) **5841 RKB** 19. Elev. Casinghead **5829**

20. Total Depth **6980** 21. Plug Back T.D. **6932** 22. If Multiple Compl., How Many **2** 23. Intervals Drilled By Rotary Tools **X** Cable Tools _____

24. Producing Interval(s), of this completion - Top, Bottom, Name
4536 - 4757

25. Was Directional Survey Made
No

26. Type Electric and Other Logs Run
IES & Compensated Neutron

27. Was Well Cored
No

28. CASING RECORD (Report all strings set in well)

CASING SIZE	WEIGHT LB./FT.	DEPTH SET	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
8-5/8	24#	257	12 1/2	250 Sks.	None
5 1/2	15 1/2#	6963	7-7/8	1250 Sks.	None

29. LINER RECORD

SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN

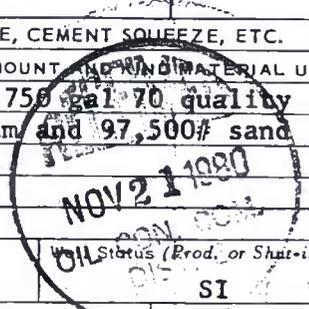
30. TUBING RECORD

SIZE	DEPTH SET	PACKER SET
1 1/2	4585	4840

31. Perforation Record (Interval, size and number)
4536 - 4757
18 .32 Holes

32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL	AMOUNT AND KIND OF MATERIAL USED
4536 - 4757	89,750 gal 70 quality foam and 97,500# sand



33. PRODUCTION

Date First Production **11-6-80** Production Method (Flowing, gas lift, pumping - Size and type pump) **Flow**

Date of Test 11-6-80	Hours Tested 3	Choke Size 3/4	Prod'n. For Test Period →	Oil - Bbl.	Gas - MCF 98	Water - Bbl.	Gas-Oil Ratio
Flow Tubing Press. 55	Casing Pressure 535	Calculated 24-Hour Rate →	Oil - Bbl.	Gas - MCF 788	Water - Bbl.	Oil Gravity - API (Corr.)	

34. Disposition of Gas (Sold, used for fuel, vented, etc.) **Vented** Test Witnessed By **Wilson**

35. List of Attachments **DEC 02 1980**

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 *Sergel Moore* TITLE Production Supt. DATE 11-12-80

AMOCY

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LAND OFFICE		
OPERATOR		

NEW MEXICO OIL CONSERVATION COMMISSION

Form C-103
Supersedes Old
C-102 and C-103
Effective 1-1-65

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-

2. Name of Operator
CONSOLIDATED OIL AND GAS, INC.

3. Address of Operator
P.O. BOX 2038 FARMINGTON, NEW MEXICO 87401

4. Location of Well
UNIT LETTER **N** **820** FEET FROM THE **SOUTH** LINE AND **2220** FEET FROM THE **WEST** LINE, SECTION **34** TOWNSHIP **32N** RANGE **13W** NMPM.

5. Elevation (Show whether DF, RT, GR, etc.)
5829' GR

7. Unit Agreement Name

8. Farm or Lease Name
ROBINSON BROS.

9. Well No.
1-M

10. Field and Pool or Wildcat
Blanco Mesa Verde BASIN DAKOTA

12. County
SAN JUAN

RECEIVED
JUL 23 1980
OIL CONSERVATION DIVISION
SANTA FE

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

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.

6-13-80 Drilled 257' of 12-1/4 hole. Ran 6 jts of 8-5/8" 24# J-55 ST&C casing. Cemented w/ 250 sx Cl B w/ 2% CaCl w/ 1/4# floceal @ sx. Circ. 12 Bbls.

7-3-80 Schlumberger ran IES/GR/FDC/CNL to 6894' (loggers TD)

7-4-80 Drilled 7-7/8" hole. Ran 173 jts of 5-1/2" 15.5# K-55 casing to 6963'.

7-5-80 Cemented 1st stage w/450 sx 50-50 poz + 2% gel. Cemented 2nd stage w/ 500 sx 50-50 poz + 2% gel + 1/4# @ sx. Cemented 3rd stage w/ 350 sx 65-35 poz + 6% gel + 1/4# floceal @ sx. circ 20 bbls. Good circ. Released Rig @ 10 p.m. 7-5-80.

RECEIVED
JUL 14 1980
OIL CON. COM.
DIST. 3

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

SIGNED [Signature] TITLE **Drig. Supt.** DATE **7-9-80**

APPROVED BY [Signature] TITLE **SUPERVISOR DISTRICT 3** DATE **JUL 14 1980**

CONDITIONS OF APPROVAL, IF ANY:

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LAND OFFICE	
OPERATOR	1

NEW MEXICO OIL CONSERVATION COMMISSION

30-045-2363
Form C-101
Revised 1-4-65

5A. Indicate Type of Lease
STATE FEE
5. State Oil & Gas Lease No.

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. Type of Work b. Type of Well OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER <input type="checkbox"/> DRILL <input checked="" type="checkbox"/> DEEPEN <input type="checkbox"/> PLUG BACK <input type="checkbox"/>		7. Unit Agreement Name
2. Name of Operator Consolidated Oil & Gas, Inc.		8. Farm or Lease Name Robinson Bros.
3. Address of Operator 1860 Lincoln Street, Suite 1300, Denver, Colorado 80295		9. Well No. 1-M
4. Location of Well UNIT LETTER "N" LOCATED 820 FEET FROM THE South LINE AND 2220 FEET FROM THE West LINE OF SEC. 34 TWP. 32N RCP. 13W NMPM		10. Field and Pool, or Sub-area Mesaverde/Dakota
11. Proposed Depth 6920'		11A. Formation Dakota
12. County San Juan		12. Rotary or C.T. Rotary
21. Elevations (Show whether DT, RT, etc.) 5829 GR	21A. Kind & Status Plug. Bond Blanket/Inforce	21B. Drilling Contractor NA
		22. Approx. Date Work will start July 1, 1979

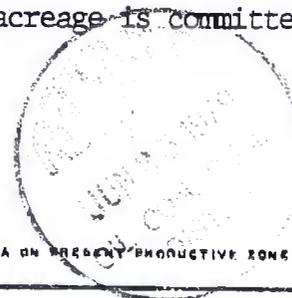
PROPOSED CASING AND CEMENT PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	SACKS OF CEMENT	EST. TOP
12-1/4"	8-5/8"	24.0#	250'	200	Circ to surf.
7-7/8"	5-1/2"	15.5#	6920'	500	3000'

1. Drill 12-1/4" hole to \pm 250'. Set 8-5/8" casing, circulate cement to surface.
2. WOC 12 hours.
3. NU BOP's. Pressure test surface casing and BOP's to 1000#.
4. Drill 7-7/8" hole to + 6920' w/fresh water gel mud. Log.
5. Run 5-1/2" casing and cement same in two stages w/approximately 500 sx.
6. Selectively perforate and stimulate the Mesaverde and Dakota formations and complete as required by applicable rules and regulations.

The S/2 of Section 34 is dedicated to this well and the acreage is committed to a gas sales contract.

RECEIVED APPROVAL VALID FOR 90 DAYS UNLESS DRILLING COMMENCED, JUL 5 1979 EXPIRES 9-23-79



IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM. IF PROGRAM 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 C. M. Bohan Title Senior Production Engineer Date June 13, 1979

(This space for State Use)

APPROVED BY Frank S. Chavez TITLE DEPUTY OIL & GAS INSPECTOR, DIST. #3 DATE JUN 25 1979

CONDITIONS OF APPROVAL, IF ANY:

Subject to approval of non-standard location in Blanco-Mansuro and Basin Dakota pools

NEW MEXICO OIL CONSERVATION COMMISSION
WELL LOCATION AND ACREAGE DEDICATION PLAT

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

All distances must be from the outer boundaries of the Section.

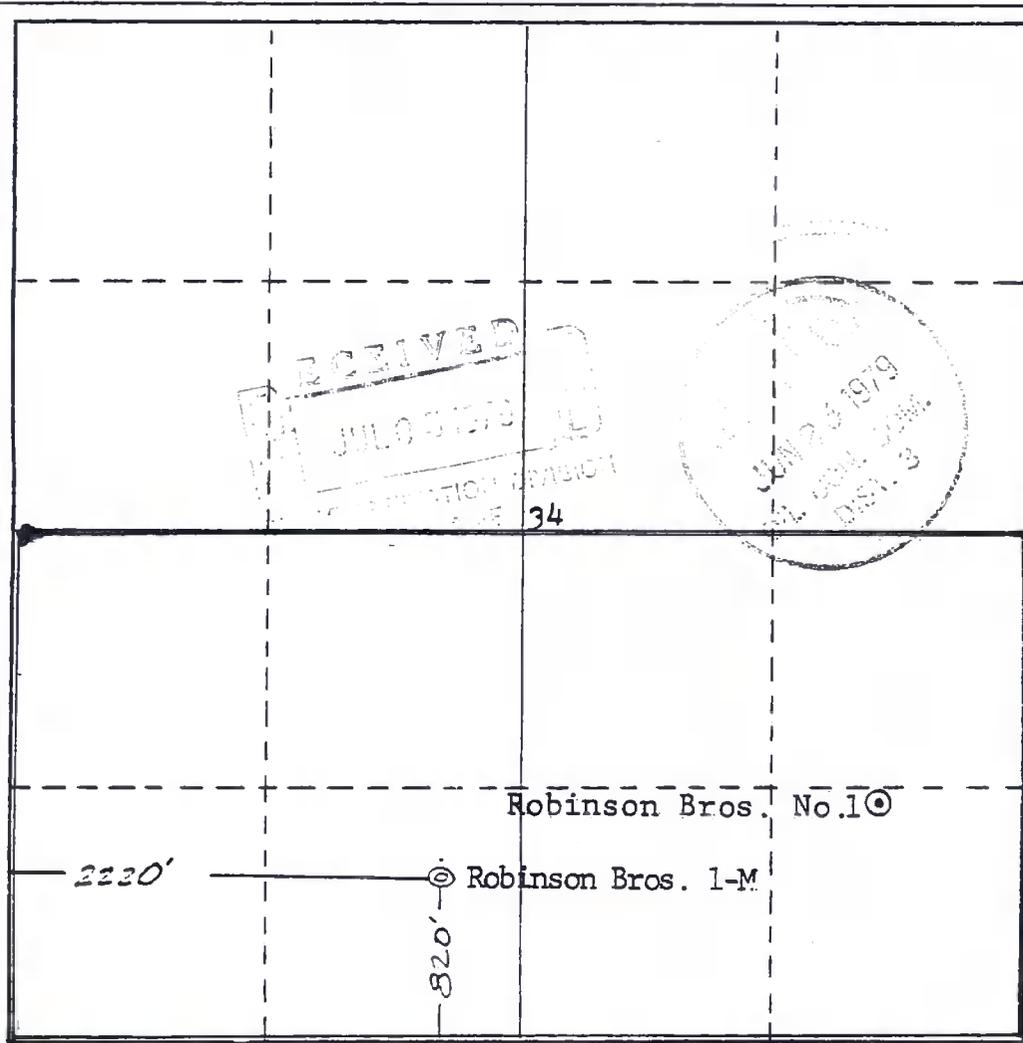
Operator CONSOLIDATED OIL AND GAS, INC.		Lease ROBINSON BROS.			Well No. 1-M
Unit Letter N	Section 34	Township 32 NORTH	Range 13 WEST	County SAN JUAN	
Actual Footage Location of Well: 820 feet from the SOUTH line and 2220 feet from the WEST line					
Ground Level Elev. 5829	Producing Formation Dakota		Pool Basin Dakota	Dedicated Acreage: 320.00 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 Communitization

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.

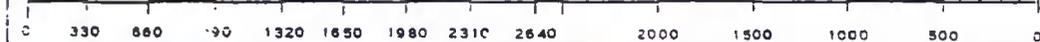
C. M. Parham
Name
C. M. Parham
Position
Senior Production Engineer
Company
Consolidated Oil & Gas, Inc.
Date
6-21-79

I hereby certify that the information shown on this plat was plotted from field notes or 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
16 June 1979
Registered Professional Engineer and Land Surveyor
James P. Leese
James P. Leese

Certificate No. **1463**



NEW MEXICO OIL CONSERVATION COMMISSION
WELL LOCATION AND ACREAGE DEDICATION PLAT

Form C-102
Supersedes C-128
Effective 1-4-65

All distances must be from the outer boundaries of the Section.

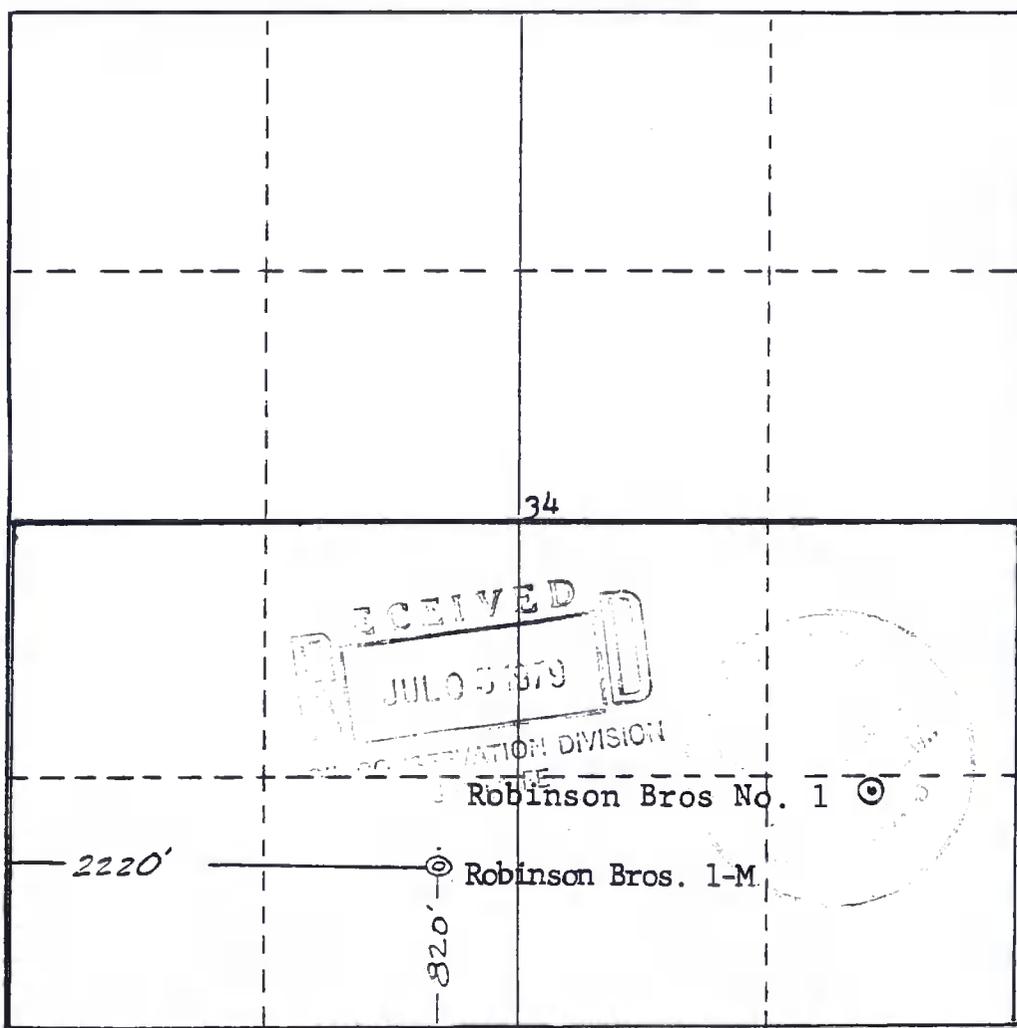
Operator CONSOLIDATED OIL AND GAS, INC.		Lease ROBINSON BROS.		Well No. 1-M	
Unit Letter N	Section 34	Township 32 NORTH	Range 13 WEST	County SAN JUAN	
Actual Footage Location of Well: 820 feet from the SOUTH line and 2220 feet from the WEST line					
Ground Level Elev. 5829	Producing Formation Mesaverde		Pool Blanco Mesaverde	Dedicated Acreage: 320.00 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 Communitization

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.

C. M. Parham

Name
C. M. Parham

Position
Senior Production Engineer

Company
Consolidated Oil & Gas, Inc.

Date
6-21-79

I hereby certify that the well location shown on this plat was plotted from field notes or actual survey 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
16 June 1979

Registered Professional Engineer and Land Surveyor
James P. Leese
James P. Leese

Certificate No. **1463**

CQM, INC. ON-SITE GAS ANALYSIS
 1427 W. AZTEC BLVD. #3
 AZTEC, NM 87410 505-333-2003

Source: HALLWOOD
 Station #: ROBINSON BROS. #M-1
 Station Name:
 Field:

Report Date: 08/30/2000
 Sample Date: 08/30/2000
 Flowing Pressure: 0 psig
 Flowing Temp.: 0 F

Method: c:\ezchrom\methods\btu7.met
 File: c:\ezchrom\chrom\RM1.2

Gas Analysis by Chromatograph

Name	Mole %	BTU	SG	GPM
Nitrogen	0.232	0.000	0.002	
Methane	94.785	959.543	0.525	
CO2	4.959	0.000	0.075	
Ethane	0.024	0.426	0.000	0.006
Propane	0.000	0.000	0.000	
i-Butane	0.000	0.000	0.000	
n-Butane	0.000	0.000	0.000	
i-Pentane	0.000	0.000	0.000	
n-Pentane	0.000	0.000	0.000	
Hexanes	0.000	0.000	0.000	
Heptanes	0.000	0.000	0.000	
Octanes	0.000	0.000	0.000	
Nonanes	0.000	0.000	0.000	

Ideal Total 100.000 959.969 0.603 0.006

Gross BTU/Real Cu. Ft. (@ 60 deg F, 14.730)	Gasoline Content
Dry = 962.005	Propane GPM = 0.000
Sat. = 946.444	Butane GPM = 0.000
Actual = 962.005	Gasoline GPM = 0.000
(0.000 lbs. water/MMCF)	26# Gasoline GPM = 0.000
	Total GPM = 0.000

Real Specific Gravity Calculated = 0.6039
 On-Site Specific Gravity = 0.0000

Gas Compressibility = 0.9979

Remarks: 1:41 PM

HALLWOOD PETROLEUM
463 TURNER DRIVE #10
DURANGO, CO 81301

Source: HALLWOOD
Station #: ROBINSON BROS. #M-1
Station Name:
Field:

Report Date: 05/31/1999
Sample Date: 05/29/1999
Flowing Pressure: 0 psig
Flowing Temp.: 0 F

Method: c:\ezchrom\methods\btu7.met
File: c:\ezchrom\chrom\ROBROM1.2

Gas Analysis by Chromatograph

Name	Mole %	BTU	SG	GPM
	0.000	0.000	0.000	
Nitrogen	0.302	0.000	0.003	
Methane	95.384	965.607	0.528	
CO2	4.292	0.000	0.065	
Ethane	0.022	0.390	0.000	
Propane	0.000	0.000	0.000	
i-Butane	0.000	0.000	0.000	
n-Butane	0.000	0.000	0.000	
i-Pentane	0.000	0.000	0.000	
n-Pentane	0.000	0.000	0.000	
Hexanes	0.000	0.000	0.000	
Heptanes	0.000	0.000	0.000	
Octanes	0.000	0.000	0.000	
Nonanes	0.000	0.000	0.000	

Ideal Total 100.000 965.997 0.597

Gross BTU/Real Cu. Ft.
(@ 60 deg F, 14.730)
Dry = 968.026
Sat. = 952.361
Actual = 968.026
(0.000 lbs. water/MMCF)

Gasoline Content
Propane GPM = 0.000
Butane GPM = 0.000
Gasoline GPM = 0.000
26# Gasoline GPM = 0.000
Total GPM = 0.000

Real Specific Gravity Calculated = 0.5977
On-Site Specific Gravity = 0.0000

Gas Compressibility = 0.9979

Remarks: 2:10 PM



**SIMULTANEOUS
COMPENSATED NEUTRON
FORMATION DENSITY**

COUNTY <u>SAN JUAN, N.M.</u> FIELD <u>BASIN DAKOTA</u> LOCATION <u>ROBINSON BROS.</u> WELL <u>#1-M</u> COMPANY <u>CONSOLIDATED OIL</u>	COMPANY <u>CONSOLIDATED OIL AND GAS</u> <hr/> WELL <u>ROBINSON BROS. #1-M</u> FIELD <u>BASIN DAKOTA</u> COUNTY <u>SAN JUAN</u> STATE <u>NEW MEXICO</u>								
LOCATION API SERIAL NO. SEC. TWP RANGE	<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td colspan="4"><u>2220' FWL & 820' FSL,</u></td> </tr> <tr> <td style="width:25%;"><u>34</u></td> <td style="width:25%;"><u>32-N</u></td> <td style="width:25%;"><u>13-W</u></td> <td style="width:25%;"></td> </tr> </table>	<u>2220' FWL & 820' FSL,</u>				<u>34</u>	<u>32-N</u>	<u>13-W</u>	
<u>2220' FWL & 820' FSL,</u>									
<u>34</u>	<u>32-N</u>	<u>13-W</u>							
	Other Services: <u>I-SFL</u>								

Permanent Datum: <u>G.L.</u> ; Elev.: <u>5829</u> Log Measured From <u>K.B.</u> , <u>13</u> Ft. Above Perm. Datum Drilling Measured From <u>K.B.</u>	Elev.: K.B. <u>5842</u> D.F. <u>5841</u> G.I. <u>5829</u>
--	---

Date	<u>6-31-80</u>					
Run No.	<u>ONE</u>					
Depth-Driller	<u>6980</u>					
Depth-Logger	<u>6895</u>					
Btm. Log Interval	<u>6894</u>					
Top Log Interval	<u>258</u>					
Casing-Driller	<u>8 5/8@ 268</u>	<u>@</u>	<u>@</u>	<u>@</u>		
Casing-Logger	<u>268</u>					
Bit Size	<u>7 7/8</u>					
Type Fluid in Hole	<u>FRESH-GEL</u>					
Dens.	<u>9.1</u>	<u>120</u>				
Visc.						
pH	<u>8</u>	<u>ml</u>	<u>ml</u>	<u>ml</u>	<u>ml</u>	<u>ml</u>
Fluid Loss						
Source of Sample	<u>SHAKER</u>					
Rm @ Meas. Temp.	<u>2.37 @ 75 °F</u>	<u>@</u>	<u>°F</u>	<u>@</u>	<u>°F</u>	<u>@</u>
Rmf @ Meas. Temp.	<u>1.87 @ 75 °F</u>	<u>@</u>	<u>°F</u>	<u>@</u>	<u>°F</u>	<u>@</u>
Rmc @ Meas. Temp.	<u>2.96 @ 75 °F</u>	<u>@</u>	<u>°F</u>	<u>@</u>	<u>°F</u>	<u>@</u>
Source: Rmf	<u>M</u>	<u>C</u>				
Rmc						
Rm @ BHT	<u>0.91 @ 196 °F</u>	<u>@</u>	<u>°F</u>	<u>@</u>	<u>°F</u>	<u>@</u>
Circulation Stopped	<u>0000</u>	<u>7-2</u>				
Logger on Bottom	<u>0700</u>	<u>7-3</u>				
Max. Rec. Temp.	<u>196</u>	<u>°F</u>	<u>°F</u>	<u>°F</u>		
Equip.	<u>8171</u>	<u>FARM</u>				
Location						
Recorded By	<u>BAIR/CLOUD</u>					
Witnessed By Mr.	<u>HARRIS/RICHARDS</u>					

LOGGING DATA

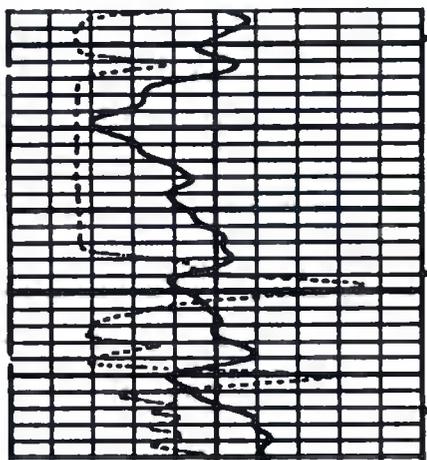
DEPTH		CNP			FDC				GR			
Top	Bottom	Porosity Scale	Matrix	Auto Corr. or Hole Size Setting	Porosity Scale	Grain Density	Liquid Density	Mole Fluid	Sens. Logged	T. C.	Zero. Div. Left	Scale Per 100 Div.
ALL		30 -10	S.S.	AUTO	30 -10	2.65	1.00	LIO	200		0	200

All interpretations are opinions based on inferences from electrical or other measurements and we cannot, and do not guarantee the accuracy or correctness of any interpretations, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, cash, damages or expenses incurred or sustained by anyone resulting from any interpretation made by any of our officers, agents or employees. These interpretations are also subject to Clause 4 of our General Terms and Conditions as set out in our current Price Schedule.

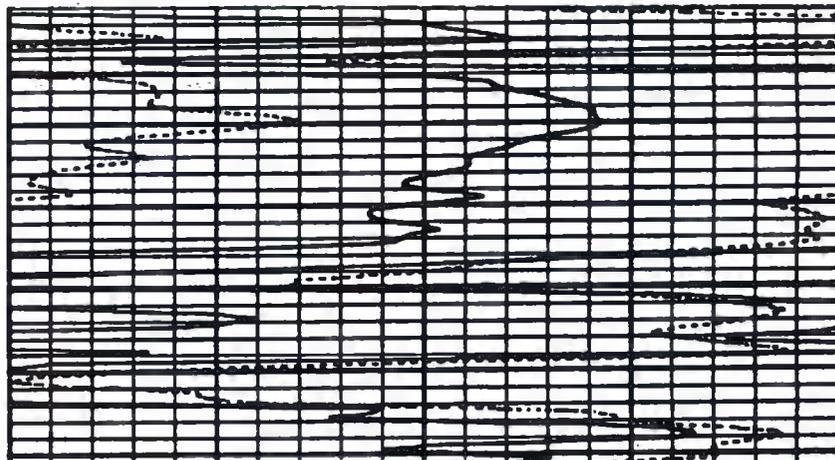
PARAMETERS

NAME	UNIT	VALUE	NAME	UNIT	VALUE	NAME	UNIT	VALUE
MC		CALI	PSNR		2.260	BS	INCH	0.0
MDEM	G/C3	2.650	FD	G/C3	1.000	MATR		SAND
BHF		HATE	BHS		OPEN	FPHI		PHIX
DD		0.0						

6.000	CALISM)	16.00	0.3000	NPHIC)	-0.100
0.0	GR (GAPI)	200.0	0.3000	DPHIC)	-0.100



2000



Schlumberger

INDUCTION SPHERICALLY
FOCUSED LOG

COUNTY SAN JUAN, N.M.
FIELD BASIN DAKOTA
LOCATION ROBINSON BROS.
WELL #1-M
COMPANY CONSOLIDATED OIL

COMPANY CONSOLIDATED OIL AND GAS

WELL FILL

WELL ROBINSON BROS. #1-M

FIELD BASIN DAKOTA

COUNTY SAN JUAN STATE NEW MEXICO

LOCATION	2220' FWL & 820' FSL,		
API SERIAL NO	SEC	TWP	RANGE
	34	32-N	13-W

Other Services:
CNL/FDC

Permanent Datum: G.L.; Elev.: 5829.
Log Measured From K.B. 13 Ft. Above Perm. Datum
Drilling Measured From K.B.

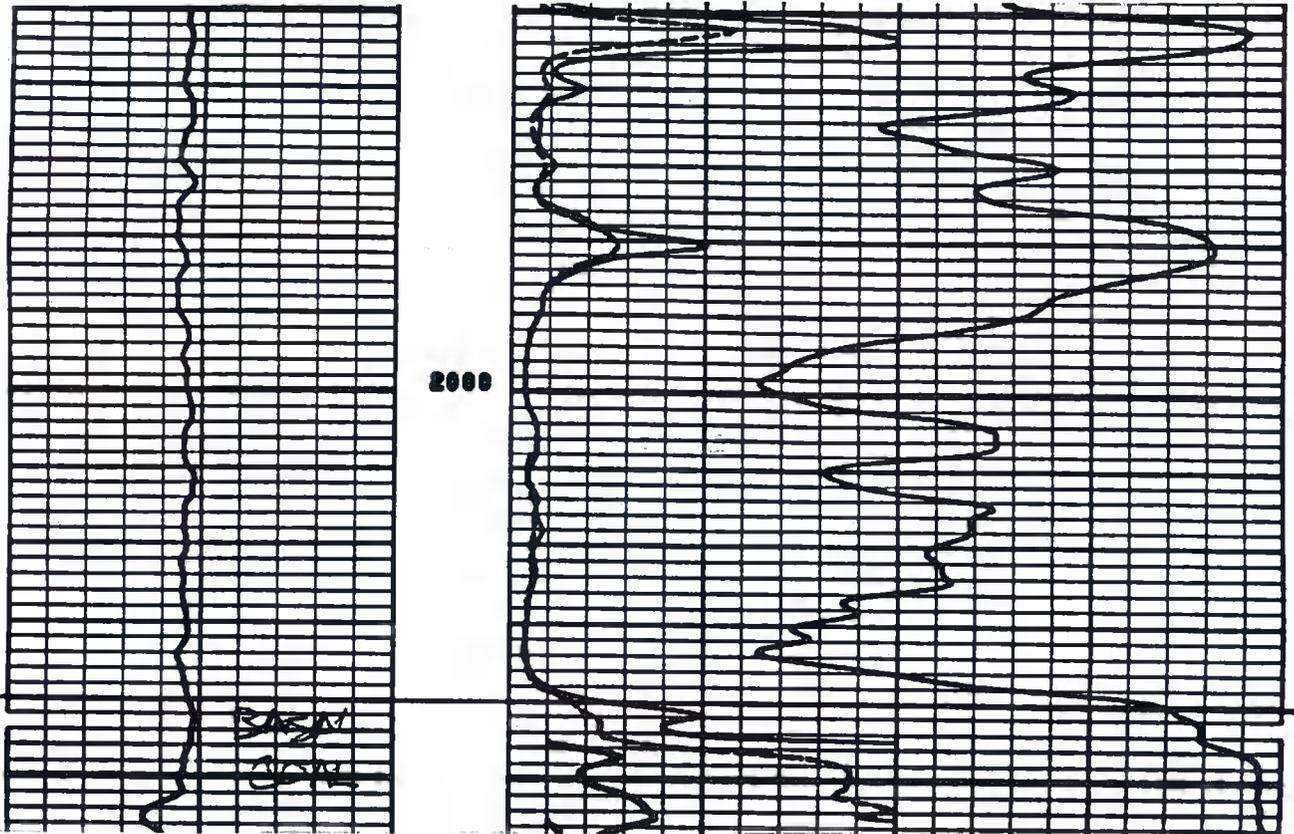
Elev.: K.B. 58
D.F. 58
G.L. 58

Date	6-31-80				
Run No.	ONE				
Depth-Driller	6980				
Depth-Logger (Schl.)	6916				
Btm. Log Interval	6906				
Top Log Interval	267				
Casing-Driller	8 5/8 @	268		@	@
Casing-Logger	262				
Bit Size	7 7/8				
Type Fluid in Hole	FRESH-GEL				
Dens.	8.7	120			
Visc.					
pH	8.5	9.6 ml		ml	
Fluid Loss					
Source of Sample	SHAKER				
Rm @ Meas. Temp.	2.37 @ 75 °F		@ °F	@ °F	@
Rmf @ Meas. Temp.	1.87 @ 75 °F		@ °F	@ °F	@
Rmc @ Meas. Temp.	2.96 @ 75 °F		@ °F	@ °F	@
Source: Rmf	M	C			
Rmc					
R ₂ BHT	0.91 @	196 °F	@ °F	@ °F	@
TIME	1600	7-2			
Location Stopped					
Location on Bottom	1600	7-3			
Temp.	196	F	F	F	
Location	8171	FARM			
Recorded By	MILLNER				
Witnessed By Mr.	HARRIS/RICHARDS				

PARAMETERS

NAME	UNIT	VALUE	NAME	UNIT	VALUE	NAME	UNIT	VALUE
SDR	DMM	1.000	BSEC	MM/M	7.000	BS	INCH	■
FPHI		PHIX	BSEC	MM/M	3.000			
DD		0.0	BS		OPEN			

		JLR (DMM)	
	0.0	100.0	
		SFLA (DMM)	
	0.0	100.0	
SP (MV)		CILD (MM/M)	
-5.000	70.00	400.0	0.0



ENERGY, MINERALS AND NATURAL RESOURCES DEPT.

No 53301

OFFICIAL RECEIPT

11/29/00

RECEIVED FROM Hallwood Petroleum Inc.

\$ 25.00

DOLLARS

FOR NGPA Filing Fee

CODE

CODE

BY Kathy Valdes

DR. CR.	ACCOUNT NUMBER	CENTER NUMBER	RECEIPT NUMBER	AMOUNT	RECEIVED FROM	DEPOSIT NUMBER	WORK ORDER NC
Rev	9696	0711		25.00	RC		
					RC		
					RC		

GRAND TOTAL \$ _____