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TELEPHONE: (505) 988-4421  
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July 28, 1992

**HAND-DELIVERED**

William J. LeMay, Director  
Oil Conservation Division  
New Mexico Department of Energy,  
Minerals and Natural Resources  
State Land Office Building  
Santa Fe, New Mexico 87503

RECEIVED  
JUL 28 1992  
OIL CONSERVATION DIVISION

10534

**Re: In the Matter of the Application of American Hunter Exploration, Ltd., for a pressure maintenance project Rio Arriba County, New Mexico**

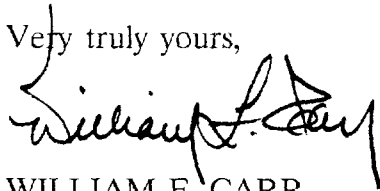
Dear Mr. LeMay:

Enclosed are two copies of Division Form C-108 in the above-referenced matter. American Hunter Exploration, Ltd. requests that this case be included on the August 20, 1992 Examiner hearing docket.

By copy of this letter, we are sending a complete copy of this application to the Division's District Office in Aztec, New Mexico.

Your attention to this matter is appreciated.

Very truly yours,



WILLIAM F. CARR

WFC:sg  
Enclosures

cc w/enclosure:

Oil Conservation Division  
District III  
1000 Rio Brazos Rd.  
Aztec, New Mexico 87410  
Attention: Mr. F.T. Chavez

Mr. Jim Artindale  
Chief Exploitation Engineer  
American Hunter Exploration, Ltd.  
410 Seventeenth Street, Suite 1200  
Denver, Colorado 80202

POST OFFICE BOX 2088  
STATE LAND OFFICE BUILDING  
SANTA FE, NEW MEXICO 87501

RECEIVED

Case 10111 28 1992

APPLICATION FOR AUTHORIZATION TO INJECT

I. Purpose:  Secondary Recovery  Pressure Maintenance  Disposal  Storage  
Application qualifies for administrative approval?  Yes  No

II. Operator: American Hunter Exploration  
Address: 410 Seventeenth St., Suite 1200 Denver, CO 80202  
Contact party: Jim Artindale Phone: (403) 260-1981

III. Well data: Complete the data required on the reverse side of this form for each well proposed for injection. Additional sheets may be attached if necessary.

IV. Is this an expansion of an existing project?  yes  no  
If yes, give the Division order number authorizing the project \_\_\_\_\_

V. Attach a map that identifies all wells and leases within two miles of any proposed injection well with a one-half mile radius circle drawn around each proposed injection well. This circle identifies the well's area of review.

VI. Attach a tabulation of data on all wells of public record within the area of review which penetrate the proposed injection zone. Such data shall include a description of each well's type, construction, date drilled, location, depth, record of completion, and a schematic of any plugged well illustrating all plugging detail.

VII. Attach data on the proposed operation, including:  
1. Proposed average and maximum daily rate and volume of fluids to be injected;  
2. Whether the system is open or closed;  
3. Proposed average and maximum injection pressure;  
4. Sources and an appropriate analysis of injection fluid and compatibility with the receiving formation if other than reinjected produced water; and  
5. If injection is for disposal purposes into a zone not productive of oil or gas at or within one mile of the proposed well, attach a chemical analysis of the disposal zone formation water (may be measured or inferred from existing literature, studies, nearby wells, etc.).

VIII. Attach appropriate geological data on the injection zone including appropriate lithologic detail, geological name, thickness, and depth. Give the geologic name, and depth to bottom of all underground sources of drinking water (aquifers containing waters with total dissolved solids concentrations of 10,000 mg/l or less) overlying the proposed injection zone as well as any such source known to be immediately underlying the injection interval.

IX. Describe the proposed stimulation program, if any.

X. Attach appropriate logging and test data on the well. (If well logs have been filed with the Division they need not be resubmitted.)

XI. Attach a chemical analysis of fresh water from two or more fresh water wells (if available and producing) within one mile of any injection or disposal well showing location of wells and dates samples were taken.

XII. Applicants for disposal wells must make an affirmative statement that they have examined available geologic and engineering data and find no evidence of open faults or any other hydrologic connection between the disposal zone and any underground source of drinking water.

XIII. Applicants must complete the "Proof of Notice" section on the reverse side of this form.

XIV. Certification

I hereby certify that the information submitted with this application is true and correct to the best of my knowledge and belief.

Name: Jim Artindale Title Chief Exploitation Engineer  
Signature: [Signature] Date: July 24, 1992

\* If the information required under Sections VI, VIII, X, and XI above has been previously submitted, it need not be duplicated and resubmitted. Please show the date and circumstance of the earlier submittal.

### III. WELL DATA

A. The following well data must be submitted for each injection well covered by this application. The data must be both in tabular and schematic form and shall include:

- (1) Lease name; Well No.; location by Section, Township, and Range; and footage location within the section.
- (2) Each casing string used with its size, setting depth, sacks of cement used, hole size, top of cement, and how such top was determined.
- (3) A description of the tubing to be used including its size, lining material, and setting depth.
- (4) The name, model, and setting depth of the packer used or a description of any other seal system or assembly used.

Division District offices have supplies of Well Data Sheets which may be used or which may be used as models for this purpose. Applicants for several identical wells may submit a "typical data sheet" rather than submitting the data for each well.

B. The following must be submitted for each injection well covered by this application. All items must be addressed for the initial well. Responses for additional wells need be shown only when different. Information shown on schematics need not be repeated.

- (1) The name of the injection formation and, if applicable, the field or pool name.
- (2) The injection interval and whether it is perforated or open-hole.
- (3) State if the well was drilled for injection or, if not, the original purpose of the well.
- (4) Give the depths of any other perforated intervals and detail on the sacks of cement or bridge plugs used to seal off such perforations.
- (5) Give the depth to and name of the next higher and next lower oil or gas zone in the area of the well, if any.

### XIV. PROOF OF NOTICE

All applicants must furnish proof that a copy of the application has been furnished, by certified or registered mail, to the owner of the surface of the land on which the well is to be located and to each leasehold operator within one-half mile of the well location.

Where an application is subject to administrative approval, a proof of publication must be submitted. Such proof shall consist of a copy of the legal advertisement which was published in the county in which the well is located. The contents of such advertisement must include:

- (1) The name, address, phone number, and contact party for the applicant;
- (2) the intended purpose of the injection well; with the exact location of single wells or the section, township, and range location of multiple wells;
- (3) the formation name and depth with expected maximum injection rates and pressures; and
- (4) a notation that interested parties must file objections or requests for hearing with the Oil Conservation Division, P. O. Box 2088, Santa Fe, New Mexico 87501 within 15 days.

**NO ACTION WILL BE TAKEN ON THE APPLICATION UNTIL PROPER PROOF OF NOTICE HAS BEEN SUBMITTED.**

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**NOTICE:** Surface owners or offset operators must file any objections or requests for hearing of administrative applications within 15 days from the date this application was mailed to them.

AMERICAN HUNTER WEST PUERTO CHIQUITO  
MANCOS GAS INJECTION SCHEME

APPLICATION FOR AUTHORIZATION TO INJECT  
DATA SUPPORTING OCD FORM C-108

- I. Purpose: Pressure Maintenance  
Application qualifies for administrative approval? No
- II. Operator: American Hunter Exploration  
Address: 410 Seventeenth St., Suite 1200, Denver, CO, 80202  
Contact Party: Jim Artindale Phone: (403) 260-1981
- III. Well Data (see also Injection Well Data Sheet)

Lease Name: Jicarilla 2A (Serial No. 701-90-0001)  
Well Number: #1 (API No. 30-039-25118)  
Location: Sec. 2, T27N R1W  
Footage Location: refer to Injection Well Data Sheet

Surface Casing Size: 10 3/4" K-55  
Surface Casing Weight: 40.5 lb/ft  
Surface Casing Depth: 250'  
Surface Casing Hole Size: 13 3/4"  
Surface Casing Top of Cement: Surface  
Top Determined By: Full Returns

Production Casing Size: 7 5/8" L-80  
Production Casing Weight: 26.4 & 29.7 lb/ft  
Production Casing Depth: 4569' MD  
Production Casing Hole Size: 9 7/8"  
Production Casing Top of Cement: 330'  
Top Determined By: Temperature Log

Liner Size: 5 1/2"  
Top of Liner: 4218' MD  
Bottom of Liner: 6625' MD

Liner Top of Cement: Was Not Cemented

Tubing Size: 2 7/8"

Tubing Depth Set: 5739' MD

Tubing Lining Material: L-80 tubing-no added lining

Packer Set Depth: Tubing anchor set at 3975'MD

Name of Injection Formation: Niobrara Member of the Mancos

Pool: West Puerto Chiquito

Injection Interval: 5324'MD (4542'TVD) to 6632'MD (4854'TVD)

372'FNL 2032'FEL to 620'FNL 3277'FEL

Preperforated liner, uncemented

Proposed injection well was drilled as a test of the fractured Niobrara interval. The well is currently an uneconomic well.

There are no other perforated intervals for other formations in the wellbore of the proposed injection well.

There are no other Stratigraphically deeper or shallower oil and gas producing formations in the area. The 'C' zone of the Niobrara is a minor contributor to the production of the Boulder Field to the North.

IV. Is this an expansion of an existing project? NO

V. A map which identifies all wells and leases within two miles of the proposed injection well and "area of review" is attached.

VI. The only well within the area of review is the proposed injection well. A well summary sheet and an injection well data sheet are attached for this well.

VII Proposed Operations

Fluid to be injected: Solution Gas from the Mancos

Average Daily Rate: 600 to 800 mcf/d

Maximum Daily Rate: 1500 mcf/d

The system is a closed system.

Average injection Pressure: 600 to 800 psia  
Maximum injection pressure: 1200 psia

The injection fluid will be solution gas from a offsetting well producing from the same formation.

#### VIII Geologic Data

Lithology: Fractured, calcareous very fine grained sandstone interbedded with calcareous shales.

Geologic Name: Niobrara Member of the Mancos Formation

Gross Reservoir Thickness: Approximately 110' vertically

Depth of Reservoir: MPP 5470'MD or 4570'TVD

To the best of the operators knowledge, there are no known wells which supply drinking water within the area of review. Additionally, the operator is unaware of any shallower or deeper water aquifers present within the regional area. The operator believes that the overlying Upper Mancos shale serves as a seal for both the oil present in the reservoir and any gas injected into the reservoir.

IX. No stimulation program is planned at this time.

X. Logging Information: Previously submitted  
Test Data: Copies of pressure tests are attached.

OPERATOR American Hunter Exploration; Jicarilla 2A  
 #1 Surface: 442' FNL 1177' FEL  
 Top Injection Zone: 372' FNL 2,032' FEL  
 WELL No. LOCATION SECTION TOWNSHIP RANGE  
 1001010101 SECTION 2 T27N R1W

Schematic

Tabular Data

Surface Casing  
 Size 10 3/4 " Cemented with 350 sx.  
 TOC At Surface feet determined by Full Returns  
 Hole size 14 3/4"

Intermediate Casing  
 Size 7 5/8 " Cemented with 1242 sx.  
 TOC 330 MD feet determined by Temp. Log  
 Hole size 9 7/8"

Long string Liner  
 Size 5 1/2 " Cemented with Not Cemented x.  
 TOC 4218' MD feet determined by Survey/Pipe Tally  
 Hole size 6 3/4"  
 Total depth 6632' MD

Injection interval  
 5324 MD feet to 6632 MD feet  
 (perforated or open-hole, indicate which)



INJECTION WELL DATA SHEET -- SIDE 2

Tubing size 2 7/8" lined with no additional lining set in a

tubing anchor (material) packer at 3975 feet  
(brand and model)

(or describe any other casing-tubing seal).

Other Data

1. Name of the injection formation Mancos Niobrara
2. Name of field or pool (if applicable) West Puerto Chiquito Mancos
3. Is this a new well drilled for injection?  Yes  No  
If no, for what purpose was the well originally drilled? To test fracture production  
potential from the Mancos
4. Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail (sacks of cement or bridge plug(s) used) Not perforated in any other zones
5. Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area. This zone is the stratigraphically shallowest oil and gas producing zone in the area.

**WELL SUMMARY**  
**AMERICAN HUNTER EXPLORATION LTD.**  
**JICARILLA 2-A #1**  
**ne ne section 2 T27N R1W**

**Surface Location:**

- 442' FNL 1177' FEL

**Bottomhole Location:**

- 620' FNL 3277' FEL

**Spud Date:**

- 09/29/91

**Surface Casing:**

- Drilled 14 3/4" hole to 250'.
- Set 10 3/4" surface casing on 09/30/91.

**Intermediate Drilling History:**

- Drilled 9 7/8" hole to 3796' MD (KOP) (3784'TVD) and ran Dual Induction, L.S. Sonic - G.R. logs.
- Drilled ahead with 9 7/8" hole to 4569' MD (4415'TVD) and ran 7 5/8" intermediate casing on 10/14/91.

**Final Drilling History:**

- Drilled 6 3/4" hole to 5324' MD (4542'TVD) (372'FNL, 2,032'FEL), began to lose oil, experienced bit torque and temporarily lost sample returns.
- Continued drilling to 6632' MD (4854'TVD) through several more zones of bit torques and losses of oil to the formation.
- TD'd well on 10/28/91 at 6632' MD (620'FNL, 3,277'FEL).

## Completion History:

- Ran pre-perforated 5 1/2" liner to TD 6632' MD (4854'TVD) on 10/28/91.
- Placed alternating pre-perf'd/blank liner with perfs beginning at 4559' MD to TD 6625' MD (Gross Interval).
- Moved in completion rig on 11/07/91.
- Begin swabbing on 11/09/91. SITP 0 psi. SICP 15 psi.
- Ran Amerada pressure recorders with 360 hour clocks and shut in for build-up tests on 11/20/91.
- Rigged up pumping unit from 11/24/91 to 11/26/91.
- Began pumping well on 12/12/91.
- Continue pumping well. First new oil pumped on 02/02/92, corresponding to date of completion.
- Pumped until 02/10/92, when weather forced shut-in.
- Pumped for three day test 05/20/92 to 05/23/92. Shut-in well again due to road conditions.
- Began OCD-authorized commerciality and reservoir test at 0600 hrs. on 06/27/92. Began by running bottomhole pressure buildup.
- Pump well to 07/17/92.

**CONFIDENTIAL**  
UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

Form approved.  
Budget Bureau No. 1004-0127  
Expires August 31, 1985

SUBMIT IN DUPLICATE

#13

2. LEASE DESIGNATION AND SERIAL NO.

701-90-0001

6. IF INDIAN ALLOTTEE OR TRIBE NAME

Jicarilla Apache

7. UNIT AGREEMENT NAME

N/A

8. FARM OR LEASE NAME

Jicarilla 2A

9. WELL NO.

#1 (API No. 30-039-25118)

10. FIELD AND POOL OR WILDCAT

W. Puerto Chiquito Mancos

11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA

Sec. 2 T27N R1W

12. COUNTY OR PARISH

Rio Arriba

13. STATE

New Mexico

**WELL COMPLETION OR RECOMPLETION REPORT AND LOG**

1a. TYPE OF WELL:  OIL WELL  GAS WELL  DRY  Other \_\_\_\_\_

1b. TYPE OF COMPLETION:  
NEW WELL  WORK OVER  REKIP-EN  REKIP-DACK  REKIP-REKIPV.  Other \_\_\_\_\_

2. NAME OF OPERATOR  
American Hunter Exploration Ltd.

3. ADDRESS OF OPERATOR  
410 17th Street, Suite 1220, Denver, CO 80202

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements):  
At surface 442' FNL, 1177' FEL  
At top prod. interval reported below 372' FNL, 2,032' FEL  
At total depth (BHL) 620' FNL, 3277' FEL

14. PERMIT NO. \_\_\_\_\_ DATE ISSUED \_\_\_\_\_

15. DATE SPUDDED 09/29/91 16. DATE T.D. REACHED 10/28/91 17. DATE COMPL. (Ready to prod.) 02/02/92 (new oil) 18. ELEVATIONS (DF, ANS, AT, OR, ETC.):\* 7236' KB 7217' G.L. 19. ELEV. CASINGHEAD \_\_\_\_\_

20. TOTAL DEPTH, MD & TVD 6632' MD 4854' TVD 21. FLUG. SACK T.D., MD & TVD 6632' MD 4854' TVD 22. IF MULTIPLE COMPL. HOW MANY? \_\_\_\_\_ 23. INTERVALS DRILLED BY \_\_\_\_\_ ROTARY TOOLS X CABLE TOOLS \_\_\_\_\_

24. PRODUCING INTERVAL(S). OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD):\*  
Mancos Nichrara "A" 5324' MD (4542' TVD) to 6632' MD (4854' TVD) 25. WAS DIRECTIONAL SURVEY MADE Yes

26. TYPE ELECTRIC AND OTHER LOGS RUN  
Dual Induction, LS Sonic-G.R. from KOP 3796' to surface 27. WAS WELL CORED No

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

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
10 3/4" K-55	40.5	250'	13 3/4"	Surface 350 Sacks	
7 5/8" L-80	26.4 & 29.7	4569'	9 7/8"	330', Temp. Log 1242 Sacks	

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)
5 1/2"	4218'	6625'	Not Cemented	

30. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)
2 7/8"	5739'	N/A

31. PREPARATION RECORD (Interval, size and number)  
Open hole completion with pre-perforated liner. Liner perforated from 4559' to 6625' MD (TD).

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

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
	<b>CONFIDENTIAL</b>

33. PRODUCTION

DATE FIRST PRODUCTION	PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump)	WELL STATUS (Producing or Abandon)
02/02/92	Pumping	Producing

DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD	OIL—BSL	GAS—MCF	WATER—BSL	GAS-OIL RATIO
02/03/92	24	N/A		45	140	20	3111

FLOW, TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL—BSL	GAS—MCF	WATER—BSL	OIL GRAVITY-API (CORR.)
N/A	30 psi		45	140	20	36

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.)  
Used for fuel and vented. TEST WITNESSED BY Mr. Doyle Post

35. LIST OF ATTACHMENTS

I hereby certify that the foregoing and attached information is complete and correct as determined from all available records

SIGNED [Signature] TITLE Senior Geologist DATE 06/22/92

\*(See Instructions and Spaces for Additional Data on Reverse Side)

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

WELL IDENTIFICATION NUMBER 2127NR10

37. SUMMARY OF POROUS ZONES: (Show all important zones of porosity and contents thereof; cored intervals; and all drill-stem, tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures, and recoveries);

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.
Mancos Niobrara A	5324' MD	5641' MD	Fractured silts, very fine grained sandstones and shales.  No Cores or DST's

38. GEOLOGIC MARKERS

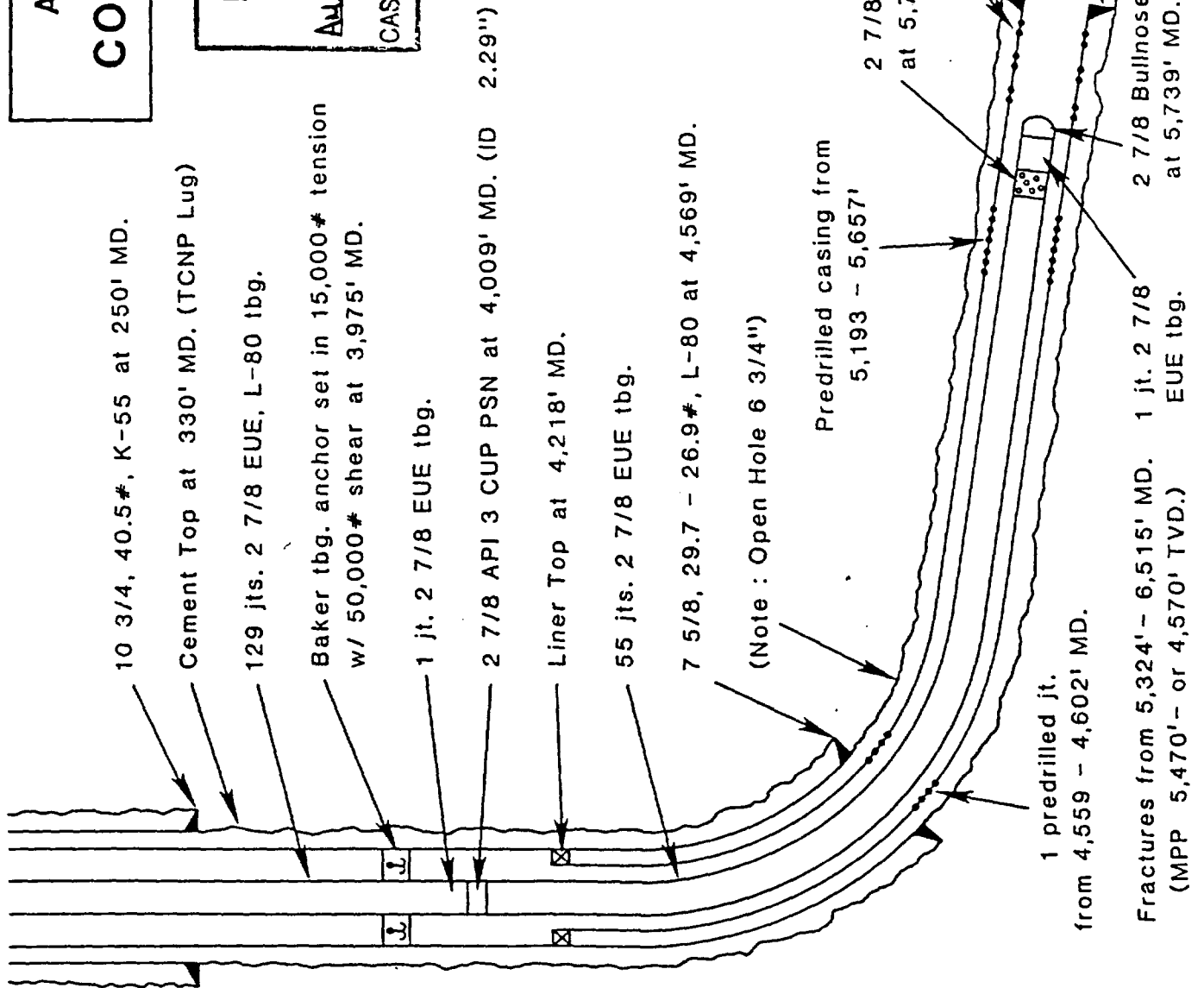
NAME	TOP	
	MEAS. DEPTH	TRUE VERT. DEPTH
Point Lookout	2932'	2932'
Mancos	3155'	3155'
Niobrara A	4348'	4286'
Niobrara B	4520'	4399'
Niobrara B	4920'	4480'
Niobrara A Sand	5668'	4609'

2127NR10

#13

**AHEL JICARILLA 2A - 1**  
**COMPLETION DIAGRAM**

BEFORE EXAMINER STOGNER  
OIL CONSERVATION DIVISION  
AL HANEZ EXHIBIT NO. L-4  
CASE NO. 10576



MPP 5,470' - or 4,570' TVD.

Subunit 51 Report  
Appropriate District Office  
DISTRICT I  
P.O. Box 1980, Hobbs, NM 88240

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

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

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

**REQUEST FOR ALLOWABLE AND AUTHORIZATION  
TO TRANSPORT OIL AND NATURAL GAS**

#13

I. Operator: American Hunter Exploration, Ltd. Well API No.: 30-039-25118  
Address: 410 17th Street, Suite 1220, Denver, CO 80202  
Reason(s) for Filing (Check proper box):  New Well,  Recompletion,  Change in Operator. Change in Transporter of:  Oil,  Gas,  Other.  Casinghead Gas,  Condensate.  Other (Please explain). **CONFIDENTIAL**  
If change of operator give name and address of previous operator: \_\_\_\_\_

II. DESCRIPTION OF WELL AND LEASE

Lease Name: Jicarilla 2A Well No.: #1 Pool Name, including Formation: West Puerto Chiguito Mancos Kind of Lease:  State,  Federal,  XXX Lease No.: 701-90-0001  
Location: Surface Location: 442' FNL, 1177' FEL  
Bottom Hole Location: A : 620 Feet From The North Line and 3277 Feet From The East Line  
Section 2 Township 27N Range 1W, NMPM, Rio Arriba County

III. DESIGNATION OF TRANSPORTER OF OIL AND NATURAL GAS

Name of Authorized Transporter of Oil or Condensate:  Gary-Williams Energy Corp. Address (Give address to which approved copy of this form is to be sent): P.O. Box 159; Bloomfield, NM 87413  
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: A Sec: 2 Twp: 27N Rge: 1W Is gas actually connected? No When? \_\_\_\_\_

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

IV. COMPLETION DATA

Designate Type of Completion - (X)	Oil Well	Gas Well	New Well	Workover	Deepen	Plug Back	Same Res'v	Diff Res'v
X	X		X					
Date Spudded: 9/29/91	Date Compl. Ready to Prod.: 2/02/92	Total Depth: 6632' MD (4854' TVD)		P.B.T.D.: 6632' MD (4854' TVD)				
Elevations (DF, RAB, RT, GR, etc.): 7236' KB 7217' G.L.	Name of Producing Formation: Mancos	Top Oil/Gas Pay: 5324' MD (4542' TVD)		Tubing Depth: 5739' MD (4627' TVD)				
Perforations: Open hole completion with pre-perforated liner. Liner perforated from 4559' MD to 6625' MD (11').				Depth Casing Shoe: 6625' MD (4852' TVD)				
TUBING, CASING AND CEMENTING RECORD								
HOLE SIZE	CASING & TUBING SIZE		DEPTH SET		SACKS CEMENT			
13 3/4"	10 3/4"		250' MD		350 sacks			
9 7/8"	7 5/8"		4569' MD		1242 Sacks			
6 3/4"	5 1/2" Liner		4218' MD to 6625' MD		Not cemented			
	2 7/8" Tubing		5739' MD					

V. 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 Tank: 02/02/92 Date of Test: 02/03/92 Producing Method (Flow, pump, gas lift, etc.): Pump  
Length of Test: 24 hours Tubing Pressure: not available Casing Pressure: 30 psi Choke Size: not available  
Actual Prod. During Test: 65 bbls Oil - Dbls: 45 Water - Dbls: 20 Gas - MCF: 140

GAS WELL

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

VI. OPERATOR CERTIFICATE OF COMPLIANCE

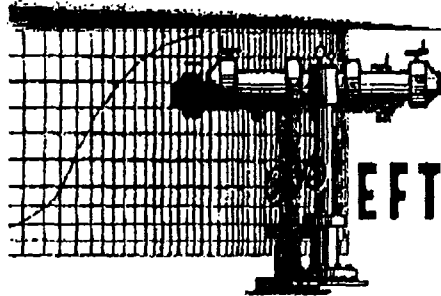
I hereby certify that the rules and regulations of the Oil Conservation Division have been complied with and that the information given above is true and complete to the best of my knowledge and belief.

Signature: James C. Lister  
Printed Name: James C. Lister Senior Geologist  
Date: 06/22/92 Title: (303) 025-5212 Telephone No. \_\_\_\_\_

OIL CONSERVATION DIVISION

Date Approved: \_\_\_\_\_  
By: \_\_\_\_\_  
Title: \_\_\_\_\_

- INSTRUCTIONS: This form is to be filed in compliance with Rule 1104
- 1) Request for allowable for newly drilled or deepened well must be accompanied by tabulation of deviation tests taken in accordance with Rule 111.
  - 2) All sections of this form must be filled out for allowable on new and recompleted wells.
  - 3) Fill out only Sections I, II, III, and VI for changes of operator, well name or number, transporter, or other such changes.
  - 4) Separate Form C-104 must be filed for each pool in multiply completed wells.



**TEFTELLER, INC.**

reservoir engineering data

FARMINGTON, NEW MEXICO / MIDLAND, TEXAS  
GRAND JUNCTION, COLORADO

P. O. Box 1198  
Farmington, New Mexico 87499  
(505) 325-1731

Farmington Fax (505) 325-1148  
Midland Fax (915) 682-5329  
Grand Junction Fax (303) 241-7634

June 30, 1992

American Hunter Exploration, Ltd.  
410 17th, Suite 1220  
Denver, CO 80202

Attention: Mr. Jim Lister

Subject: Pressure Observation  
Jicarilla 2A No. 1  
Rio Arriba County, New Mexico  
Our File No. 2-23839-O

Dear Mr. Lister:

Attached hereto are the results of a bottomhole pressure observation which was conducted on the above captioned well June 27 through June 28, 1992.

The data presented are in tabular and graphical form.

It has been our pleasure to have conducted this service for you. If we may be of further assistance, please do not hesitate to contact us.

Sincerely,

TEFTELLER, INC.

Neil Tefteller

NT/lw

1cc: Mr. Norm Schonhoffer  
American Hunter Exploration, Ltd.  
435 4th Ave. SW  
Calgary, Alberta T2P 3A8

*Serving the Rocky Mountain Area & Permian Basin Area*



**TEFTELLER, INC.**

RESERVOIR ENGINEERING DATA AND PRODUCTIVITY ENHANCEMENT SERVICES  
MIDLAND, TEXAS • FARMINGTON, NEW MEXICO • GRAND JUNCTION, COLORADO

**CHRONOLOGICAL PRESSURE AND PRODUCTION DATA**

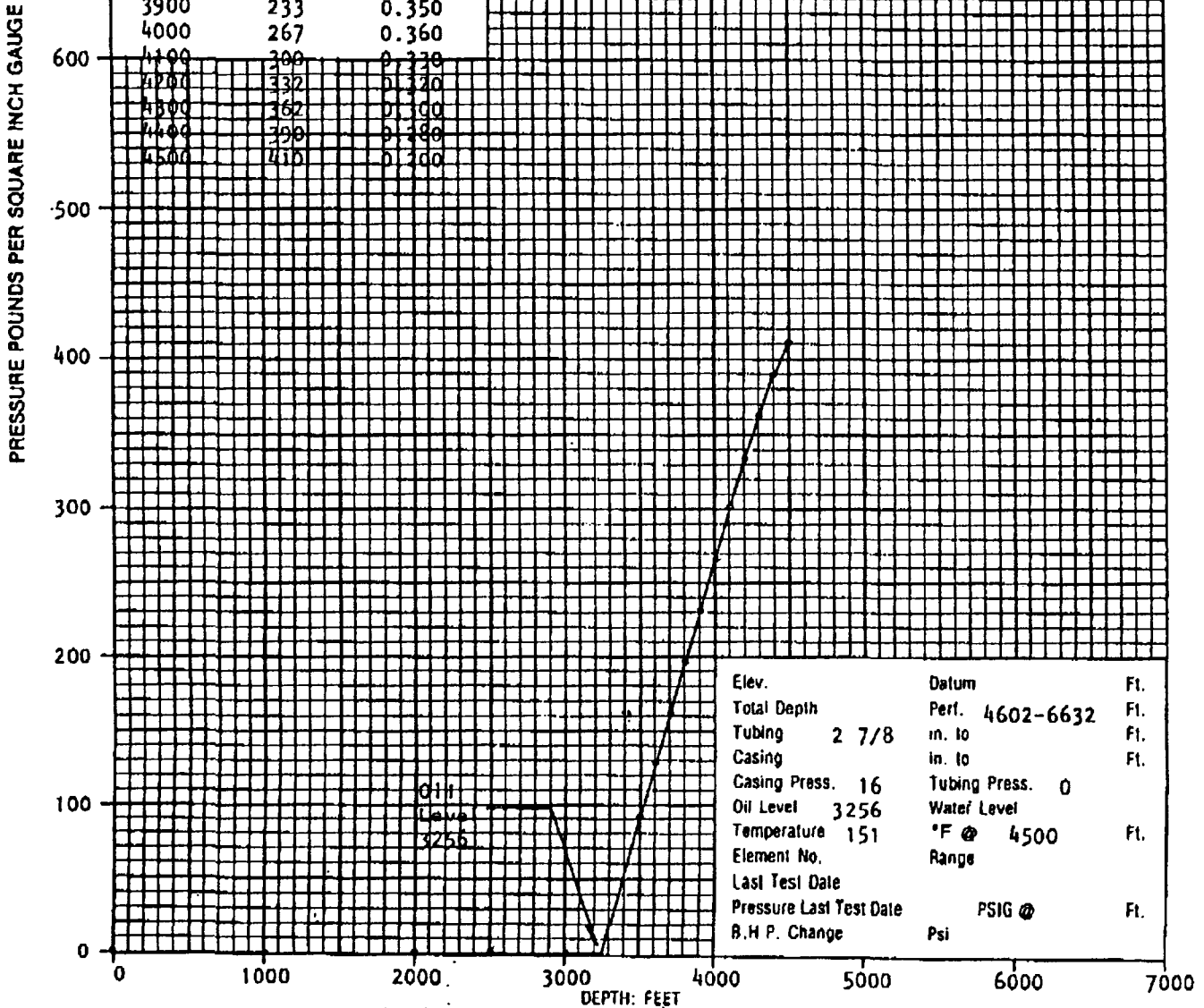
1992 DATE	STATUS OF WELL	TIME	ELAPSED TIME		WELLHEAD PRESSURE		BHP @ 4500' PSIG
			HRS	MIN	TBG	CSG	
6-27	Arrived on location, casing and tubing open	13:30					
	Rigged up tandem instruments						
	Master valve leaking (replaced)	13:45					
	Shut well in	14:00					
	Instrument in lubricator	14:00					
	Gradient traverse to 4500' making 20 minute stops				0	16	
	Instrument @ 4500'	19:00					410.0
		19:30	0	30			410.0
		20:00	1	00			410.5
		20:30	1	30			411.0
		21:00	2	00			411.0
		22:00	3	00			411.5
		23:00	4	00			412.0
6-28		00:00	5	00			412.4
		01:00	6	00			412.4
		02:00	7	00			413.0
		03:00	8	00			413.0
		04:00	9	00			413.5
		05:00	10	00			414.0
		06:00	11	00			415.0
		07:00	12	00			415.5
		08:00	13	00	TSTM	175	415.5
	Instrument off bottom						



Page 2 of 2  
File 2-23839-0

Company AMERICAN HUNTER EXPLORATION LTD Lease JICARILLA 2-A Well No. 1  
Field \_\_\_\_\_ County RIO ARRIBA State NEW MEXICO  
Formation MANCUS Test Date JUNE 27, 1992

Status of Well <u>Dead</u>		
DEPTH	PRESSURE	GRADIENT
Feet	Psig	Psi/Ft.
0	0	
1000	0	0.000
2000	1	0.000
2500	2	0.002
3000	2	0.000
3500	90	0.176
3600	126	0.360
3700	162	0.360
3800	197	0.350
3900	233	0.350
4000	267	0.360
4100	300	0.330
4200	332	0.320
4300	362	0.300
4400	390	0.380
4500	415	0.300



Elev.	Datum	Ft.
Total Depth	Perf. 4602-6632	Ft.
Tubing 2 7/8	in. to	Ft.
Casing	in. to	Ft.
Casing Press. 16	Tubing Press. 0	
Oil Level 3256	Water Level	
Temperature 151	*F @ 4500	Ft.
Element No.	Range	
Last Test Date		
Pressure Last Test Date	PSIG @	Ft.
B.H.P. Change	Psi	

2A-1  
JUNE 28, 1992

MD	TVD	PRESS (psig)	CORRECTED TVD GRAD psi/ft
1000'	1000'	0	0
2000	1998	1	.001
2500	2497	2	.002
3000	2993	2	.0
3500	3490	90	.177
3600	3590	126	.360
3700	3689	162	.364
3800	3788	197	.353
3900	3888	233	.360
4000	3987	267	.343
4100	4083	300	.343
4200	4173	332	.356
4300	4257	362	.357
4400	4332	390	.373
4500	4389	410	.350

Press. @ 4600' TVD = (4600-4389) .36 + 415.5 = 491.5 PSIG

G-1

DWIGHT'S HOTLINE - Drilling History 27-28N-1W

#1

Copyright 1989 Original Drill No NE  
 State : NEW MEXICO Well No: HW R-960552-D Issued: 01/01/78  
 County: RIO ARriba Oper: TAYLOR LLOYD B  
 Field : BOULDER MAN DCA: 12/08/62 DO DRY  
 Well: FOUNT & BURNUM #1  
 Fig: 1550 Test 1980 Test  
 Prod Well: Permit: 10/03/62 API 30-039  
 Spud: 10/02/62 Contri: Leese: ELEV: 7307 DF  
 TD: 6110 P: 5791  
 aa State Records aa

Zone : 5679-5718 Elev: 7307 DF  
 5742-5747 Log Topo Formation Record  
 5752-5762 Depth Datum  
 5784-5788 Gallup 5676 1631

Perf: 5679-5788 w/2 SPF - frac w/2100 bolts 0

Cone : None

Log : GR-I - DL

Casing: 9 5/8 @ 135 - 7 @ 4056 w/150 - 4 1/2 In Int 4706-5791

Tubing: 2 3/8 @ 5780

Journal: PCA - 10/20/64

aa Shell Oil Data aa Elev: 7307 DF  
 Formation Record  
 Casing: 9 5/8 cased @ 120 w/150; 7 cased @ Log Topo Depth Datum  
 4056 w/150 4 Liner @ 4706-5791  
 5791 packer @ 5676 Marcos 4800 2707

Journal: 10/03/62 Loc. 10/10/62 3355 Dr-19; 10/17/62 4750 Dr-19; 10/22/62 6117  
 Preparing to run Liner; 10/30/62 6117 Preparing to run Liner. Hole  
 bridging; 11/08/62 6117 Cleaning out. 4 In Liner 4706-5791 ft.  
 Meter 5614 ft on Liner. Crack Jet Perfs. 5679-5718 ft. 5742-47 ft.  
 5752-62 ft. 5784-88 ft. Oil fractured 5679-5788 ft with 31,000  
 gallons oil. Breakdown pressure 0 lb. Injection rate 47 barrels per  
 min. Flowing through casing. 11/20/62 6117 Putting on pump.  
 11/27/62 6117 Putting on pump. 12/03/62 6117 Rigging on pump. 12/19/62  
 6117 Testing on pump. Recovered all load oil. 03/06/63 6117 Shut in.  
 05/01/63 6117 Preparing to swab - 5000 ft oil in hole. 05/09/63  
 6117 Swabbing. Fluid level 1400 ft in hole. Swabbed 50 barrels load  
 oil in 12 hrs. 05/14/63 6117 Shut in. Re-Oil fractured 5679-5788 ft  
 with 16,800 gallons oil. Breakdown pressure 400-0 lb. 06/05/63 6117  
 Pumping 5 barrels oil/day. 07/16/63 6117 Shut in. Pulled rods and

G-2

DWIGHT'S HOTLINE - Drilling History 27-28N-1W

#1

Copyright 1989 Original Drill No NE  
 State : NEW MEXICO Well No: HW R-960552-D Issued: 01/01/78  
 County: RIO ARriba Oper: TAYLOR LLOYD B  
 Field : BOULDER MAN DCA: 12/08/62 DO DRY  
 Well: FOUNT & BURNUM #1  
 Fig: 1550 Test 1980 Test  
 Prod Well: Permit: 10/03/62 API 30-039  
 Spud: 10/02/62 Contri: Leese: ELEV: 7307 DF  
 TD: 6110 P: 5791  
 aa State Records aa

Zone : 5679-5718 Elev: 7307 DF  
 5742-5747 Log Topo Formation Record  
 5752-5762 Depth Datum  
 5784-5788 Gallup 5676 1631

Perf: 5679-5788 w/2 SPF - frac w/2100 bolts 0

Cone : None

Log : GR-I - DL

Casing: 9 5/8 @ 135 - 7 @ 4056 w/150 - 4 1/2 In Int 4706-5791

Tubing: 2 3/8 @ 5780

Journal: PCA - 10/20/64

aa Shell Oil Data aa Elev: 7307 DF  
 Formation Record  
 Casing: 9 5/8 cased @ 120 w/150; 7 cased @ Log Topo Depth Datum  
 4056 w/150 4 Liner @ 4706-5791  
 5791 packer @ 5676 Marcos 4800 2707

Journal: 10/03/62 Loc. 10/10/62 3355 Dr-19; 10/17/62 4750 Dr-19; 10/22/62 6117  
 Preparing to run Liner; 10/30/62 6117 Preparing to run Liner. Hole  
 bridging; 11/08/62 6117 Cleaning out. 4 In Liner 4706-5791 ft.  
 Meter 5614 ft on Liner. Crack Jet Perfs. 5679-5718 ft. 5742-47 ft.  
 5752-62 ft. 5784-88 ft. Oil fractured 5679-5788 ft with 31,000  
 gallons oil. Breakdown pressure 0 lb. Injection rate 47 barrels per  
 min. Flowing through casing. 11/20/62 6117 Putting on pump.  
 11/27/62 6117 Putting on pump. 12/03/62 6117 Rigging on pump. 12/19/62  
 6117 Testing on pump. Recovered all load oil. 03/06/63 6117 Shut in.  
 05/01/63 6117 Preparing to swab - 5000 ft oil in hole. 05/09/63  
 6117 Swabbing. Fluid level 1400 ft in hole. Swabbed 50 barrels load  
 oil in 12 hrs. 05/14/63 6117 Shut in. Re-Oil fractured 5679-5788 ft  
 with 16,800 gallons oil. Breakdown pressure 400-0 lb. 06/05/63 6117  
 Pumping 5 barrels oil/day. 07/16/63 6117 Shut in. Pulled rods and

H-1

H-2



F-25

#3

DWIGHT'S HOTLINE - Drilling History 27-28N-1W

Copyright 1989 Original Drill  
 State: NEW MEXICO Well No: R-960553-D  
 County: RIO ARriba Operator: FOUTZ & BURSUM CONSTRUCT  
 Field: BOULDER MAN  
 Well: BAYLESS-WICHAM #2  
 Perfor: 10/10/61  
 Spud: 10/22/61  
 ID: 5370  
 Zone: 1 76 80RD Grav 35.1 BUPO  
 Zone: 4340-4350  
 5006-5020  
 5050-5060  
 5080-5090  
 5310-5315  
 Perf: 4820-5106  
 Ceiling: 9 5/8 @ 100 W/100 - 5 1/2 @ 4884 W/300  
 Journal: PCA - 8/29/68 S/L 11/22/68  
 AA Shell Oil Data AA  
 IP 1 P 76 80/24 hrs Grav 35.5 deg  
 Zone: 4885-5370 (Gallup)  
 Ceiling: 9 5/8 cased @ 100 W/100, 5 1/2 cased @ 4885 W/100, 4 1/2 liner @ 4767-5370, 2 @ 5000  
 Journal: 10/13/61 Loc. 10/25/61 609 Dr-19. 11/01/61 2901 Dr-19 with mud. 11/08/61 4601 D-19. Ran Logs at 4450 ft. Lost circulation at 4450 ft. 11/15/61 5370 Preparing to Fracture. 11/29/61 5370 Testing on pump. Oil fractured at 4885-5370 ft (open hole) with 84,000 gallons oil. 12/19/61 5370 Testing on pump. Recovered load oil. Pumped oil/day 12/13/61 5370 Testing on pump. Recovered load oil. Pumped 45-50 barrels oil/day. I.P. pumped 76 barrels oil/day based on 24 hr test. Gravity 35.5 deg. Producing through open hole. Gallup Formation. Interval 4885-5370 ft. Re-Spud 10-15-62. Re-5200 ft Cref set perf 22/4820-5106 W/44, 100 gal. oil. 80P 2000 lb. Put back on pump.  
 Printed 12/30/89 TBN 15964 N1 Page 1

Perfor: 10/10/61  
 Spud: 10/22/61  
 ID: 5370  
 Zone: 1 76 80RD Grav 35.1 BUPO  
 Zone: 4340-4350  
 5006-5020  
 5050-5060  
 5080-5090  
 5310-5315  
 Perf: 4820-5106  
 Ceiling: 9 5/8 @ 100 W/100 - 5 1/2 @ 4884 W/300  
 Journal: PCA - 8/29/68 S/L 11/22/68  
 AA Shell Oil Data AA  
 IP 1 P 76 80/24 hrs Grav 35.5 deg  
 Zone: 4885-5370 (Gallup)  
 Ceiling: 9 5/8 cased @ 100 W/100, 5 1/2 cased @ 4885 W/100, 4 1/2 liner @ 4767-5370, 2 @ 5000  
 Journal: 10/13/61 Loc. 10/25/61 609 Dr-19. 11/01/61 2901 Dr-19 with mud. 11/08/61 4601 D-19. Ran Logs at 4450 ft. Lost circulation at 4450 ft. 11/15/61 5370 Preparing to Fracture. 11/29/61 5370 Testing on pump. Oil fractured at 4885-5370 ft (open hole) with 84,000 gallons oil. 12/19/61 5370 Testing on pump. Recovered load oil. Pumped oil/day 12/13/61 5370 Testing on pump. Recovered load oil. Pumped 45-50 barrels oil/day. I.P. pumped 76 barrels oil/day based on 24 hr test. Gravity 35.5 deg. Producing through open hole. Gallup Formation. Interval 4885-5370 ft. Re-Spud 10-15-62. Re-5200 ft Cref set perf 22/4820-5106 W/44, 100 gal. oil. 80P 2000 lb. Put back on pump.

Log Tops	Formation Record	Calc
Point Lookout		Depth Datum
Phacos		1150 6080
Gallup		3440 3790
		3855 3375
		4976 2254

Log Tops	Formation Record	Calc
Point Lookout		Depth Datum
Phacos		1150 6080
Gallup		3440 3790
		3855 3375
		4976 2254

Log Tops	Formation Record	Calc
Point Lookout		Depth Datum
Phacos		1150 6080
Gallup		3440 3790
		3855 3375
		4976 2254

Log Tops	Formation Record	Calc
Point Lookout		Depth Datum
Phacos		1150 6080
Gallup		3440 3790
		3855 3375
		4976 2254

Log Tops	Formation Record	Calc
Point Lookout		Depth Datum
Phacos		1150 6080
Gallup		3440 3790
		3855 3375
		4976 2254

G-25

G-3



DWIGHT'S HOTLINE - Drilling History 27-28N-1W

Copyright 1989 Original Drill ne ee  
 State : NEW MEXICO NM Herid HW R-960554-0 Issued: 01/01/78  
 County: RIO ARriba Oper: FOUTZ & BURSUM CONSTRUCT  
 Field : BOLDER MAN OCA: 11/30/62 DO DRY  
 Well: 41 Last Infor: 05/22/83  
 Frg: 2310 Fall 990 Fall Permit: 10/24/62 APY 30-039  
 Cc: 5400 Gallup Lessee: ELEV: 7333 DF  
 Prod Well: Cont: PBI: 5454  
 Spud: 10/24/62 Cont: PBI: 5454  
 ID: 5459 as State Records as

IP : 22 8090 Log Topo Elev: 7333 DF  
 PZone : 5321-5363 Ifruitland Depth Datum Calc  
 5380-5368 Ifructland 1380 5953  
 5425-5431 LWhite 1510 5923  
 1605 5728  
 3720 3413  
 4000 3333  
 4196 3137  
 4818 2515  
 Gallup

Perfo : 5321-5431 w/2 SPF - free w/2137  
 bole crude  
 Cealng : 9 5/8 @ 120 w/100 - 7 @ 4478  
 w/150

Journal: PCA - 6/5/64  
 as Shell Oil Data as Elev: 7333 DF  
 Formation Record

IP : P 22 bbls oil 24 hr test Gray 32 Log Topo Depth Datum  
 deg Gallup 5020 2313

PZone : S250-5459 (Gallup)

Cealng : 9 5/8 cmt @ 115 w/100; 7 cmt @ 4476 w/150; 4 1/2 @ 4458-5459  
 slotted

Journal: 10/24/62 Spud 10-23-62. 10/30/62 2447 D-1g. 11/06/62 3550 D-1g.  
 11/14/62 5393 D-1g. Oil show at 5393 ft. 11/20/62 5459/Running  
 bottom hole pressure test; Open hole pecker at 5250 ft. 11/27/62  
 5459 TD - pressure to fracture. 12/05/62 Deviation: 3 1/2 degree at  
 2068. 4 1/2 at 2210. 5 at 2312. 5 1/2 at 2390. 6 at 2550. 6 1/2 at  
 2635. 7 at 2810. 7 1/2 at 2930. 8 at 3210. 9 1/4 at 3690. 10 1/4 at  
 4703. 11 1/2 at 4900. 12 1/2 5400. 13 at 5331. Fractured with  
 89,755 gallons crude oil at 4976-5470 ft. breakdown pressure 2400.  
 shut in pressure 1000. Injection rate 42 1/2 barrels/min. Rigging  
 up pump. 12/12/62 Pumped 80 barrels load oil. 24 hrs. 01/09/63 Oil  
 fractured 5250-5454. Open hole pecker at 5459 ft. 01/23/63 Pumped  
 estimated 20 barrels oil. no mtr. Recovered load oil. 02/06/63 Shut  
 down. weather. 03/05/63 testing on pump. pumped 15 barrels oil/day.

H-3

G-4

DWIGHT'S HOTLINE - Drilling History 27-28N-1W

Copyright 1989 Original Drill ne ee  
 State : NEW MEXICO NM Herid HW R-960554-0 Issued: 01/01/78  
 County: RIO ARriba Oper: FOUTZ & BURSUM CONSTRUCT  
 Field : BOLDER MAN OCA: 11/30/62 DO DRY  
 Well: 41 Last Infor: 05/22/83  
 Frg: 2310 Fall 990 Fall Permit: 10/24/62 APY 30-039  
 Cc: 5400 Gallup Lessee: ELEV: 7333 DF  
 Prod Well: Cont: PBI: 5454  
 Spud: 10/24/62 Cont: PBI: 5454  
 ID: 5459 as State Records as

IP : 22 8090 Log Topo Elev: 7333 DF  
 PZone : 5321-5363 Ifruitland Depth Datum Calc  
 5380-5368 Ifructland 1380 5953  
 5425-5431 LWhite 1510 5923  
 1605 5728  
 3720 3413  
 4000 3333  
 4196 3137  
 4818 2515  
 Gallup

Perfo : 5321-5431 w/2 SPF - free w/2137  
 bole crude  
 Cealng : 9 5/8 @ 120 w/100 - 7 @ 4478  
 w/150

Journal: PCA - 6/5/64  
 as Shell Oil Data as Elev: 7333 DF  
 Formation Record

IP : P 22 bbls oil 24 hr test Gray 32 Log Topo Depth Datum  
 deg Gallup 5020 2313

PZone : S250-5459 (Gallup)

Cealng : 9 5/8 cmt @ 115 w/100; 7 cmt @ 4476 w/150; 4 1/2 @ 4458-5459  
 slotted

Journal: 03/21/63 Shut down 06/12/63 Pumped 5 barrels oil/day. I.P. pumped  
 22 barrels oil/day based on 24 hr test. 32 deg Gray. Producing  
 through open hole at Gallup formation. Interval 5250- 5459 ft.

H-4

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DWIGHT'S HOTLINE - Drilling History

26-28N-1W

#1

Copyright 1989 Original Drill NM NM  
 State : NEW MEXICO NM Merid HW R-95482-0 Issued: 01/01/78  
 County: RIO ARriba Oper: STANDARD OIL PROD CO  
 Field : BOULDER MAN Compl: 07/18/62 DO OIL  
 Well: JTCARILLA APACHE 42  
 Ftg: 660 Tol 2510 Tol Permit: 07/05/62 Last Info: 06/25/88  
 Obj: 4540 Gallup Lease: APT 30-039  
 Prod Well: Lease: Elev: 7148 DF  
 Spud: 07/01/62 Cont: P8: 3950  
 TD: 3951

Op Ad : P. O. Box 460609, Houston TX 77056-8609  
 AA State Records AA Elev: 7148 DF  
 Formation Record  
 IP : 80 BOPD grav 32 Log Tops Depth Calc  
 PZone : 3568-3951 Lewis 6942  
 Point Lookout 2350 4392  
 Perf: 3734-3888 Point Lookout 2350 4392  
 3500-3951 OH 2768 4382  
 3118 3432

Ceasing: 9 5/8 @ 136 w/100 - 5 1/2 @ 3500 w/175 - 4 @ 3950  
 Journals /Chevron Oil Co. /Jicarilla Tribal. Shut in gas well. 4 To Recomp-  
 9/27/74. Memo A 9/14/71  
 AA Shell Oil Data AA Elev: 7148 DF  
 Formation Record  
 IP : P 256 bbls oil/day based on 80 Log Tops Depth Calc  
 bbls oil/1 1/2 hrs gravity 32 Point Lookout 2350 4398

PZone : 3502-3951 (Gallup)  
 Ceasing: 9 5/8 cmt @ 137 w/100, 5 1/2 cmt @ 3502 w/175, 4 1/2 liner @ 3332-3950, set, allotted 3740-3890, 2 @ 3725, set  
 Journals: 07/11/62 Loc. 07/18/62 3710 Dr-19. Spud 7-2-62. Stopped during at 3568 ft in Gallup. Blew estimated 40 barrels oil/hr. Flow estimated. 750-1000 barrels oil/15 hrs. 07/25/62 3951 Hoving on rotary tools. 08/01/62 3951 Id. Shut in. Deviation 10 degrees at td. CORRECTED 7-31-62. I.P. Pumped 256 barrels oil/day based on 80 barrels oil/1 1/2 hrs. gravity 33 degrees. Producing through open hole at Gallup formation, interval 3502-3951.

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DWIGHT'S HOTLINE - Drilling History

26-28N-1W

#5

Copyright 1989 Original Drill NM NM  
 State : NEW MEXICO NM Merid HW R-95483-0 Issued: 01/01/78  
 County: RIO ARriba Oper: STANDARD OIL PROD CO  
 Field : BOULDER MAN Compl: 03/05/63 DO OIL  
 Well: JTCARILLA 4-26 41  
 Ftg: 660 Tol 330 Tol Permit: 01/08/62 Last Info: 06/25/88  
 Obj: 4540 Gallup Lease: APT 30-039  
 Prod Well: Lease: Elev: 7242 DF  
 Spud: 02/04/62 Cont: Centri ASPEN DRUG P8: 4532  
 TD: 4798

Op Ad : P. O. Box 460609, Houston TX 77056-8609  
 AA State Records AA Elev: 7242 DF  
 Formation Record  
 IP : 9 BOPD grav 32, 3 BOPD Log Tops Depth Calc  
 PZone : 3635-4668 Lewis 803 6339  
 Point Lookout 4668-4798 3145 4097

Perfo : 4504-4550 w/1 SPF - free w/1400 bbls 0  
 Core : 4560-4666  
 Logs : IES  
 Ceasing: 8 5/8 @ 110 w/110 - 5 1/2 @ 4400 w/200 - 4 in liner 4510-4334  
 Tubing: 2 3/8 @ 4401

Journals: 4 To Recomp. 10/4/74. TA. 5/27/66. Memo A NT-to repair Well-4/15/82 9-14-71. /Chevron Oil Co.  
 AA Shell Oil Data AA Elev: 7242 DF  
 Formation Record  
 IP : P 9 bbls oil - 3 bbls mtr 24 hr Log Tops Depth Calc  
 32 deg Grav Point Lookout 803 6339  
 PZone : 4400-4510 (Gallup) 3148 4094  
 Point Lookout 3594 3668  
 4668 2574  
 Ceasing: 8 5/8 cmt @ 110 w/100, 5 1/2 cmt @ 4400 w/200, 4 L @ 4330-4510 allotted w/334-4510, set: 2 @ 4401, set  
 Journals: 01/10/62 Loc. 02/07/62 110 Waiting on cement. Spud 2-4-62. 02/14/62 1900 Dr-19. 02/21/62 3100 Dr-19. 9 deg deviation at 3100 ft. 02/28/62 4281 Dr-19. 03/07/62 4535 Prepare to core. 03/14/62 4582 Crg. Core 41 4560-66. Recovered 5 ft sh. pyrite, good cut. trace fluorescence.

G-17

G-18



F-19

#5

DWIGHT'S HOTLINE - Drilling History 26-28N-1W

Copyright 1989 Original Drill NM
State : NEW MEXICO NM Permit #R-954883-D Issued: 01/01/76
County: RIO ARriba Oper: STANDARD OIL PROD CO
Field : BOLDER MAN Comp: D105/63 DO OIL

Helli-JICAGUILLA 4-26 41
Frg: 460 Pnl 330 Pnl
Dbl: 4500 Gallp Permit: D1/08/62 Apt 30-039
Prod well: Lanes: Elev: 1242 DF
Spud: 02/04/62 Contr: ASPEN DRUG Pbl: 4532
TD: 4198

Cone #2 4556-85. Recovered 28.3 ft sh. dark grey, scattered
Pore 115 vertical fractured at 4573 ft. Bladed oil at 4578-81.
02/21/82 4798 Running Liner. Core oil. 4596-4625. Recovered 3 ft sh.
dark grey, 15 ft sh. grey, light brown oil. Fair cut. Recovered 24 4625-38.
Recoverd. Core 45' 4538-86. Recovered 12 ft sh. dark grey. Vertical
fractured. Vertical fractured oil. Spun out on fracture. 03/28/82
4798 Running on cable tool. 05/02/82 4724 TD. Setting 35 pump.
04/25/82 4798 Running rods. 05/02/82 4724 TD. Setting 35 pump.
Pumped 12 barrels mtr/24 hrs. Pumped 35 barrels
oil/24 hrs. Pumped 10 barrels oil + 20 barrels mtr/24 hrs. Pumped 2
barrel oil/24 hrs. Pumped mtr/24 hrs. Pumped 3 barrels oil + 15 m
hrs. Prepare to fracture. 05/25/82 4798 of 10 barrels oil + 15 m
fractured open hole at 4400. 4798 14th 38.00 gallons oil. No
breakdown. Fracturing Pressure 2000 lb. 06/06/82 Pumping load
oil. Pumped 10 barrels load oil + 20 barrels mtr/24 hrs. 06/20/82
cleaning out. Pumped 8 barrels load oil + 13 barrels mtr/24 hrs.
Pulled pump. Caved pulled liner. 07/12/82 Plug 480 ft. Setting.
07/19/82 Setting. 07/28/82 Plug 450 ft. Cleared out to 4500 ft.
10/10/82 Plug 4510 ft. Set bridge plug at 4532 ft. Crack Jet at 4497
ft. 011 fractured open hole 4491-4510 with 63,000 gallons of oil.
breakdown pressure 3000 lb. Injection rate 10 barrels/min. Pulled
packer. Ran 4 in liner at 4330-4510. elcted 434-4310. see:
10/30/82 testing on pump. Pumped 25 barrels load oil/129 hrs. Pumped
10 barrels load oil + 20 barrels mtr/day. 02/21/83 Plug 4510 ft.
Shut down. weather. Recovered all load oil. Pumped 3 barrels oil/48
hrs. COMPLETED 3-1-83. I.P. pumped 9 barrels oil + 3 barrels
mtr/day based on 24 hr test. 32 deg gravity. Producing through open
hole at Gallup formation. Interval 4400-4510 ft.

G-19

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#6

DWIGHT'S HOTLINE - Drilling History 26-28N-1W

Copyright 1989 Original Drill NM
State : NEW MEXICO NM Permit #R-954884-D Issued: 01/01/76
County: RIO ARriba Oper: STANDARD OIL CO
Field : BOLDER Comp: 09/29/62 DO OIL

Helli-JICAGUILLA AP #240
Frg: 1785 Pnl 1640 Pnl
Dbl: 4400 Gallp Permit: 08/21/62 Apt 30-039
Prod well: Lanes: Elev: 7215 DF
Spud: 09/03/62 Contr: Pbl: 4312
TD: 4325

IP : 143 BOPD grav 32 Elev: 7215 DF
Zone : 3196-4158 Formation Record
Level sh 497 Calc
Point Lookout 2716 Depth
Hence 3196 4019 Datum
Gallup 4158 5057

Journal: Chevron Oil Co. /Jic Tribal 240 #1. I-R - 2409 for Pressure
Interference test allow frac. equality 42 & 63 Jic. 4-26. 1A-
10/24/74. NIT-Rep. 8/19/75. Memo A 9-14-71. Jic 4-26. WFO 43-113.
Further notice.
aa Shell Oil Data aa Elev: 7215 DF
IP : P 143 bbls oil 24 hr gravity 32. Formation Record
S deg Hence Log Tops Depth Calc
Date 4019

G-20

F-21

26-28N-1W

#8 ON 1055 1004  
 12/21/89

#10

F-22

26-28N-1W

#10

F-22

26-28N-1W

#10

DWIGHT'S HOTLINE - Drilling History

Copyright 1989 Original Dr-111 NW 88  
 State : NEW MEXICO NW Merid H# R-954885-0 Issued: 01/01/78  
 County: RIO ARriba Oper: STANDARD OIL PROD CO  
 Field : BOULDER HAN Compl: 08/19/62 DO OIL

Well: JICARILLA 4-26 43 Last Info: 06/25/88  
 Frg: 2310 Frl 2310 Frl Permit: 07/25/62 API 30-039  
 Obj: 3000 Gallup Lease: Elev: 7242 G.  
 Prod well: Lease: Elev: 7242 G.  
 Spud: 07/29/62 Contri: GREAT WESTERN  
 TD: 4120 PBI

Op Ad : P. O. Box 460609, Houston TX 77056-8609  
 AA State Records AA

IP : 120 80PD grav 32 Elev: 7242 G.  
 PZone : 3862-4120 Log Tops Formation Record  
 Point Lookout Depth Datum  
 2505 4717

Perfo : 3872-4056 perf'd liner - none

Ceasing: 9 5/8 @ 136 w/100 - 5 1/2 @ 3460 w/175 - 4 in liner 3372-4056

Journal: /Chevron Oil Co. Jic Tribal 240 63. Jic 4-26 43  
 AA Shell Oil Date AA Elev: 7242 G.  
 Formation Record

IP : F 540 bbls oil/day based on 120 Log Tops  
 bbls oil/4 1/2 hr test 24/64 Lewis sh Depth Datum  
 GR 355 GR 120 Point Lookout 412 6830  
 2505 4717  
 3970 4272  
 3978 3264

Ceasing: 9 5/8 cmt @ 136 w/125, 5 1/8 cmt @ 3460 w/175 4 1/2 slotted liner  
 @ 3460-4120 sect 2 @ 4100 sect

Journal: 07/25/62 Loc: 08/31/62 1379 D-19. Spud 7-18-62. 08/08/62 2762 D-19.  
 Lost circulation. 08/13/62 3400 D-19. 08/22/62 4120 waiting on  
 cable tools. Stopped during at 3862 ft. flow oil estimated 10  
 barrels/hr at 3862 ft. Drilled with air below 3460 ft. COMPLETED @  
 2762. I.P. flowed 540 barrels oil/day based on 120 barrels oil/4  
 1/2 hrs. 24/64 in ck. gravity 32 degrees. GR 355. FIP 120 lb.  
 Producing through open hole at Gallup formation. Interval 3460-4120.

Printed 12/30/89 TBN 15960 NW Page 1

DWIGHT'S HOTLINE - Drilling History

Copyright 1989 Original Dr-111 NW 88  
 State : NEW MEXICO NW Merid H# R-954887-0 Issued: 01/01/78  
 County: RIO ARriba Oper: STANDARD OIL CO  
 Field : BOULDER Compl: 09/08/62 DG GAS

Well: JICARILLA APACHE 45 Last Info: 07/11/85  
 Frg: 990 Frl 990 Frl Permit: 08/27/62 API 30-039  
 Obj: 3000 Gallup Lease: Elev: 7196 G.  
 Prod well: Lease: Elev: 7196 G.  
 Spud: 08/25/62 Contri: PBI  
 TD: 3933

Notes : (Plugged & abandoned June 1985)  
 AA State Records AA

IP : 8 MCFGPO Elev: 7196 G.  
 PZone : 3711-3928 Log Tops Formation Record  
 Lewis sh Depth Datum  
 Point Lookout 225 6971  
 Hancock sh 2245 4951  
 Gallup 2720 4476  
 3711 3465

Ceasing: 9 5/4 @ 137 w/100-7 @ 3464 w/150  
 Tubing: 2 3/8 @ 3394

Journal: NI to repair well 4/15/82. Shut in gas well. Memo A 9/7/4/71. /Chevron  
 Oil Co.  
 AA Shell Oil Date AA Elev: 7196 G.  
 Formation Record

IP : 3000 MCF STIP 680 Elev: 7196 G.  
 PZone : 3464-3711 Log Tops Formation Record  
 Hancock sh Depth Datum  
 Gallup 3717 3476

Journal: 08/29/62 1230 D-19. Spud 8-25-62. 09/05/62 3464 waiting on cement.  
 09/12/62 3964 moving in rotary tools. Stopped during at 3593 ft.  
 good gas show. 09/18/62 3964 id. waiting on P10. Gassed 2 1/4 PFC  
 3/4 in ck. 10/7/62 testing. Gassed 3000 MCF oil barrel load all day  
 10/22/62 shut in. STIP 680. 05/27/63 shut in. Shut in gas cap well.  
 shut in indefinitely. COMPLETED 1-5-81 Shut in gas well. gas cap  
 in Boulder field. Gassed 3000 MCF. STIP 680

Printed 12/30/89 TBN 15961 NW Page 1

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G-22

G-5

DWIGHT'S HOTLINE - Drilling History 35-28N-1W

Copyright 1989 Original Drill No. ne  
 State : NEW MEXICO M1 Merid H# R-954888-D Issued: 01/01/78

County: RIO ARriba Oper: STANDARD OIL CO

Field : BOULDER MAN Compl: 10/03/62 DO OIL  
 Last Infor: 06/25/88

Well: JICARILLA APACHE #7 Permits: 09/14/62 API 30-039  
 Fig: 660 Fnl 2310 Fel Lease: Elev: 7198 DF  
 Obj: 4300 Gallup

Prod well: Contri: GREAT WESTERN P#1: 4300  
 Spud: 09/14/62 aa State Records aa Elev: 7198 DF  
 TD: 4394 aa Shell Oil Data aa Formation Record

IP	Log Tops	Depth	Calc
37 BOPD Grav 32. 8 BHPD	Lamin sh	502	666
	Point Lookout	2699	4499
	Hancos sh	3190	4008
	Gallup ss	4044	3154

Pzone : 4044-4394  
 Perfo : 4045-4396 w/1 SPF-frac w/1500  
 Bole lease oil

Cealng: 9 5/8 @ 132 w/90-7 @ 3959 w/125

Tublng: 2 3/8 @ 4250

Journal: Chevron Oil Co. /Jicarilla. Set pump 1/26/81. Back on Production 8/20/81. /Standard of Tex. Elev: 7198 DF  
 aa Shell Oil Data aa Formation Record

IP : P 37 Bole oil/day @ 8 BHPD Log Tops Depth Datum  
 wtr/day Grav 32 deg GOR 1185-1 Hancos 3190 4008  
 Pzone : 3959-4387 (Hancos)

Cealng: 9 5/8 cmtd @ 134 w/90: 7 cmtd @ 3959 w/125: 5 lnr @ 3760-4387 set.  
 alotted 4031-96, 4226-4355: 2 3/8 @ 4305. set

Journal: 09/12/62 Loc. 09/14/62 2530 D-rig. 09/26/62 3959 waiting on cement. 10/03/62 4394 baiting on completion tools. Had drilled 3959-4394. 10/10/62 4394 TD. Plug 4387 ft. Putting on pump. 11-26-62 4146-56. hole 2 shots/foot at 4045-55, 4063-80, 4114-26, 4152-62, 4146-56, 4168-74, 4181-85, 4192-4216, 4219-24, 4228-59, 4263-68, 4270-80, 4283-4308, 4312-46. Hole caved to 4360 ft. Cleared out to 4387 ft. 5 in liner 3760-4387 set. alotted 4031-96 and 4226-4355. Oil fractured open hole 3959-4387 with 63,000 gallons oil. Breakdown pressure 1900. Injection rate 33 barrels/min. 10/22/62 Pumping Load oil. Pumped 30 barrels load oil/day. 11/27/62 Testing on pump. Pumped 12 barrels load oil/day. trace wtr. 12/12/62 Shut in. Pumped 12 barrels load oil @ 1 barrel wtr/day. 01/06/63 Ran open hole

Printed 12/30/89 TBN 15967 M1 -- continued -- Page 1

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G-6

DWIGHT'S HOTLINE - Drilling History 35-28N-1W

Copyright 1989 Original Drill No. ne  
 State : NEW MEXICO M1 Merid H# R-954888-D Issued: 01/01/78

County: RIO ARriba Oper: STANDARD OIL CO

Field : BOULDER MAN Compl: 10/03/62 DO OIL  
 Last Infor: 06/25/88

Well: JICARILLA APACHE #7 Permits: 09/14/62 API 30-039  
 Fig: 660 Fnl 2310 Fel Lease: Elev: 7198 DF  
 Obj: 4300 Gallup

Prod well: Contri: GREAT WESTERN P#1: 4300  
 Spud: 09/14/62 aa State Records aa Elev: 7198 DF  
 TD: 4394 aa Shell Oil Data aa Formation Record

IP	Log Tops	Depth	Calc
37 BOPD Grav 32. 8 BHPD	Lamin sh	502	666
	Point Lookout	2699	4499
	Hancos sh	3190	4008
	Gallup ss	4044	3154

Pzone : 4044-4394  
 Perfo : 4045-4396 w/1 SPF-frac w/1500  
 Bole lease oil

Cealng: 9 5/8 @ 132 w/90-7 @ 3959 w/125

Tublng: 2 3/8 @ 4250

Journal: Chevron Oil Co. /Jicarilla. Set pump 1/26/81. Back on Production 8/20/81. /Standard of Tex. Elev: 7198 DF  
 aa Shell Oil Data aa Formation Record

IP : P 37 Bole oil/day @ 8 BHPD Log Tops Depth Datum  
 wtr/day Grav 32 deg GOR 1185-1 Hancos 3190 4008  
 Pzone : 3959-4387 (Hancos)

Cealng: 9 5/8 cmtd @ 134 w/90: 7 cmtd @ 3959 w/125: 5 lnr @ 3760-4387 set.  
 alotted 4031-96, 4226-4355: 2 3/8 @ 4305. set

Journal: 09/12/62 Loc. 09/14/62 2530 D-rig. 09/26/62 3959 waiting on cement. 10/03/62 4394 baiting on completion tools. Had drilled 3959-4394. 10/10/62 4394 TD. Plug 4387 ft. Putting on pump. 11-26-62 4146-56. hole 2 shots/foot at 4045-55, 4063-80, 4114-26, 4152-62, 4146-56, 4168-74, 4181-85, 4192-4216, 4219-24, 4228-59, 4263-68, 4270-80, 4283-4308, 4312-46. Hole caved to 4360 ft. Cleared out to 4387 ft. 5 in liner 3760-4387 set. alotted 4031-96 and 4226-4355. Oil fractured open hole 3959-4387 with 63,000 gallons oil. Breakdown pressure 1900. Injection rate 33 barrels/min. 10/22/62 Pumping Load oil. Pumped 30 barrels load oil/day. 11/27/62 Testing on pump. Pumped 12 barrels load oil/day. trace wtr. 12/12/62 Shut in. Pumped 12 barrels load oil @ 1 barrel wtr/day. 01/06/63 Ran open hole

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UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

WELL COMPLETION OR RECOMPLETION REPORT AND LOG \*  
1. TYPE OF WELL:  OIL  GAS  OTHER  
2. NAME OF OPERATOR: American Hunter Exploration Ltd.  
3. ADDRESS OF OPERATOR: 410 17th St., Suite 1220, Denver, Colorado 80202  
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements):  
At surface 1845' FNL 1900' FNL  
At top prod. interval reported below 1759' FNL 2038' FNL  
At total depth 1686' FNL 1,138' FNL

5. NAME OF OPERATOR: American Hunter Exploration Ltd.  
6. INDIAN ALLOTTEE OR TRIBE NAME: Jicarilla Apache  
7. UNIT AGREEMENT NAME: Jicarilla Apache  
8. NAME OR LEASE NAME: Jicarilla 3-F  
9. WELL NO.: #1  
10. FIELD AND POOL OR WILDCAT: W. Puerto Chiquito Mancos ON AREA

11. DATE OF COMPLETION: 02/24/92  
12. COURT OR COUNTY OR STATE: Rio Arriba, New Mexico  
13. PERMIT NO.: 11/20/91  
14. DATE ISSUED: 11/20/91

15. DATE SPURD: 11/28/91  
16. DATE T.D. REACHED: 01/02/92  
17. DATE COMPL. (Ready to prod.): 02/24/92  
18. ELEVATIONS (OF, RKB, RT, GR, ETC.): 7318' GR.; 7337' KB  
19. ELEV. CASINGHEAD: 7862' MD; 6688' TVD; 7837' MD; 6686' TVD  
20. TOTAL DEPTH, MD & TVD: 22. IF MULTIPLE COMPLET. HOW MANY? 23. INTERVALS DRILLED BY: 24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD): 7862' MD; 6688' TVD; 7837' MD; 6686' TVD

25. WAS DIRECTIONAL SURVEY MADE: Yes  
26. TYPE ELECTRIC AND OTHER LOGS RUN: DIL - SFL - SP, BHC Sonic - G.R. - CAL., Dipmeter  
27. WAS WELL CEMENTED: NO  
28. CASING RECORD (Report all strings set in well):  
CASING RECORD: 7 5/8" 26.4-29.7 6729' 9 7/8" 7865 SX 365 SX None  
CEMENTING RECORD: 10 3/4" 40.5 375' 14 3/4" 7865 SX 365 SX None  
HOLE SIZE: 7 5/8" 26.4-29.7 6729' 9 7/8" 7865 SX 365 SX None

29. LINER RECORD: 5 1/2" 6582' 7837' None  
PACKS CEMENT: 5 1/2" 6582' 7837' None  
SCREEN (MD): 5 1/2" 6582' 7837' None  
SIZE: 5 1/2" 6582' 7837' None  
30. TUBING RECORD: 7819' N/A  
DEPTH SET (MD): 7819' N/A  
PACKER SET (MD): 7819' N/A

31. PREPARATION RECORD (Interval, size and number):  
Pre-perforated 5 1/2" liner was run (uncemented) as above with holes from 6917' MD to 7837' MD  
32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.: N/A  
DEPTH INTERVAL (MD): N/A  
AMOUNT AND KIND OF MATERIAL USED: N/A

33. PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump): Pumping (2 1/2" x 2" RWAC)  
WELL STATUS (Producing or Shut-in): Producing  
DATE FIRST PRODUCTION: 02/24/92  
HOURS TESTED: 24  
CHOKED SIZE: N/A  
TEST PERIOD: 03/02/92  
FLOW, TUBING PRESSURE, CALCULATED 24-HOUR RATE: 20  
CASING PRESSURE: 20  
OIL—BBL— 323  
GAS—MCF— TSTM  
WATER—HBL— 0  
OIL GRAVITY-API (CORR.): 36

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.): Used for fuel/vented  
TEST WITNESSED BY: Doyle Post

35. LIST OF ATTACHMENTS: Directional Survey

I hereby certify that the foregoing and attached information is complete and correct as determined from all available records  
SIGNED: [Signature]  
TITLE: Senior Exploration Geologist  
DATE: 07/01/92

(See Instructions and Spaces for Additional Data on Reverse Side)  
Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

**CONFIDENTIAL**

#12

37. SUMMARY OF POROUS ZONES: (Show all important zones of porosity and contents thereof; cored intervals; and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures, and recoveries):

AHBL 3F-1

3-27 W-1 W

38. GEOLOGIC MARKERS

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.	NAME	TOP	
					MEAS. DEPTH	TRUE VERT. DEPTH
Mancos	6952' MD	7862' MD	Fractured siltstone, very fine grained sandstones and shale	Point Lookout	5166'	5102'
				Mancos	5338'	5271'
				Niobrara 'A'	6670'	6479'
				Niobrara 'B'	6952'	6587'

#12

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

SUBMIT IN DUPLICATE

FOR APPROVED  
OMB NO. 1004-0137

Expires: December 31, 1991

1. LICENSE DESIGNATION AND SERIAL NO.

Contract 701-90-0001

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

JICARILLA APACHE

7. UNIT AGREEMENT NAME

n/a

8. FARM OR LEASE NAME, WELL NO.

JICARILLA 6A-1

9. API WELL NO.

30-039-25131

10. FIELD AND POOL, OR WILDCAT

WILDCAT

11. SEC. T., R., M., OR BLOCK AND SURVEY OR AREA

Section 6-T27N-R1E

12. COUNTY OR PARISH

RIO ARRIBA

13. STATE

NEW MEXICO

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. CENYR.  Other \_\_\_\_\_

2. NAME OF OPERATOR  
AMERICAN HUNTER EXPLORATION LTD.

3. ADDRESS AND TELEPHONE NO.  
410 - 17th Street; Suite 1220; Denver, Colorado 80202

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)\*  
At surface 460' FNL & 650' FEL (NENE) Section 6-T27N-R1E

At top prod. interval reported below

At total depth  
485.5' FNL & 3358.4' FEL  
NWNW Section 6-T27N-R1E

14. PERMIT NO. DATE ISSUED  
10/28/91

15. DATE SPUDDING 11/04/91 16. DATE T.D. REACHED 11/24/91 17. DATE COMPL. (Ready to prod.) n/a 18. ELEVATIONS (OF RKB, ST. CR, ETC.)\* 7177GR, 7196KB 19. ELEV. CASINGHEAD

20. TOTAL DEPTH, MD & TVD 5026MD, 2728TVD 21. PLUG BACK T.D., MD & TVD 1700TVD 22. IF MULTIPLE COMPL., HOW MANY\* 23. INTERVALS DRILLED BY 0-T.D. ROTARY TOOLS CABLE TOOLS

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)\* n/a 25. WAS DIRECTIONAL SURVEY MADE YES

26. TYPE ELECTRIC AND OTHER LOGS RUN DUAL INDUCTION, SONIC, GAMMA RAY, CALIPER 27. WAS WELL CORED NO

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

CASING SIZE/GRADE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	TOP OF CEMENT, CEMENTING RECORD	AMOUNT PULLED
10 3/4"	40.5	329	14 3/4"	TO SURFACE	NONE
7 5/8"	29	2426	9 7/8"	560sx 65/35 POZMIX 225sx 'G'	NONE

29. LINER RECORD 30. TUBING RECORD

SIZE	TOP (MD)	BOTTOM (MD)	BACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)

31. PERFORATION RECORD (Interval, size and number)  
OPEN HOLE FROM 2426' to 5026'MD.

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

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED

33. PRODUCTION

DATE FIRST PRODUCTION PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump) WELL STATUS (Producing or shut-in)

DATE OF TEST	HOURS TESTED	CHOKES SIZE	PROD'N. FOR TEST PERIOD	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO

FLOW, TUBING PRESS. CASING PRESSURE CALCULATED 24-HOUR RATE OIL—BBL. GAS—MCF. WATER—BBL. OIL GRAVITY-API (CORR.)

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.) TEST WITNESSED BY  
ACCEPTED AND RECORDED

35. LIST OF ATTACHMENTS

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records.

SIGNED B. Thistle B. THISTLE TITLE DRILLING TECHNOLOGIST DATE April 9, 1992

\*(See Instructions and Spaces for Additional Data on Reverse Side)

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

OPERATOR

AHEL 6A-1 6-270-1e

#15

37. SUMMARY OF POROUS ZONES: (Show all important zones of porosity and contents thereof; cored intervals; and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures, and recoveries):

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.
CLIFF HOUSE	668	713	33% $\emptyset$
MENEFEE	713	903	31% $\emptyset$
POINT LOOKOUT	903	1118	24% $\emptyset$
<b>CONFIDENTIAL</b>			

38. GEOLOGIC MARKERS

NAME	MEAS. DEPTH	TOP	
		MEAS. DEPTH	TRUE VERT. DEPTH
LEWIS	SURFACE		SURFACE
CLIFF HOUSE	668'		671'
MENEFEE	713'		716'
POINT LOOKOUT	903'		908'
MANCOS	1118'		1124'
KOP	1719'		1732'
NIOBRARA	2140'		2107'
GRAY ZONE	2218'		2170'
A ZONE	2426'		2302'
B ZONE	2582'		2397'
TOTAL DEPTH	5026'		2727'

H-19

#15

DWIGHT'S HOTLINE - Drilling History 6-27N-1E

Copyright 1989 Original Drill c se se  
State : NEV HXICO NM Merid H# R-960304-0 Issued: 01/01/78

County: RIO ARRIBA Oper: BENSON MONTIN GREER DRLG

Field : PUERTO CHIQUITO MAN PEA: 13/01/63 DD DRY

Well: JICARILLA #16-6 Last Info: 05/22/83

Ftg: 660 #el 660 Fel API 30-039

Obj: 3100 Gallup Elev: 7240 KB

Prod well: Lessee: PB: 3225

Spud: 08/01/63 Contr: TD: 3299

Op Ad : 221 Petroleum Center Bldg., Farmington NM 87401

AA State Records 44 Elev: 7240 KB

Formation Record

Log Tops Depth Calc

Perfs : 2496-3156 w/1 SPF - frac w/77710 Gallup 2500 4740

20000 lb 10/40 sd

Core : None

Logs : ESI

Ceasing: 10 3/4 @ 107 w/80 - 7 @ 2439 w/150 - 5 1/2 in liner 2069-3296

Tubing: 2 3/8 @ 3100

Journal: PEA - 6/3/65

AA Shell Oil Data 44 Elev: 7240 KB

Formation Record

Log Tops Depth Calc

Ceasing: 10 3/4 cmtd @ 107 w/80, 7 cmtd @ 2439 w/150, 5 1/2 liner cmtd @ 2089- 3299 w/100 Gallup 2500 4740

Journal: 07/02/63 Loc: 08/36/63 107 Waiting on cement, Spud 7-31-63, 10-3/4

cmtd at 107 ft, 4th 80 sacks. 08/20/63 1047 Dr-19. 08/27/63 2440

Waiting on cable tools. 7 in cmtd at 2439 ft with 150 sacks.

09/04/63 2350 Dr-19 with cable tools. Show oil at 2495 ft. Shut in 4

hrs at 2587 ft. Bailed 8 gallons fluid, 504 oil and 504 wtr.

09/11/63 2980 Dr-19. Shut down at 2610 ft for 4 hrs, bailed 4

gallons H2O, rainbow show of oil; shut down at 2660 ft for 4 hours,

09/13 2-1/2 gallons H2O, rainbow show of oil; shut down at 2735 ft

for 4 hrs, bailed 3 gallons H2O, no show; shut down 2800 ft for 4

hrs; bailed 2-1/2 gallons H2O, rainbow show of oil; shut down at

2875 fr for 4 hrs, bailed 2-1/2 gallons H2O, rainbow show of oil;

H-20

#15

DWIGHT'S HOTLINE - Drilling History 6-27N-1E

Copyright 1989 Original Drill c se se  
State : NEV HXICO NM Merid H# R-960304-0 Issued: 01/01/78

County: RIO ARRIBA Oper: BENSON MONTIN GREER DRLG

Field : PUERTO CHIQUITO MAN PEA: 10/01/63 DD DRY

Well: JICARILLA #16-6 Last Info: 05/22/83

Ftg: 660 #el 660 Fel API 30-039

Obj: 3100 Gallup Elev: 7240 KB

Prod well: Lessee: PB: 3225

Spud: 08/01/63 Contr: TD: 3299

shut down at 2935 ft for 24 hrs, bailed 8 gallons H2O, rainbow show

of oil; shut down at 2950 ft for 4 hrs, bailed 1-1/2 gallons mud,

rainbow show of oil. 09/17/63 3299 Dr-19 cement. Shut down at 3100

ft for 4 hrs, bailed 3/4 gallon mud; shut down at 3220 ft for 4

hrs, bailed 2 gallons mud. 09/27/63 3299 Idle. 5-1/2 in liner cmtd

2069-3299 ft with 100 sacks. 11/02/64 3299 Plug 3225 ft. Waiting on

pump. Spotted 500 gallons mud cut acid. Perforated 1 shot/ft. 3156

ft. 3158 ft. 3160 ft. 3162 ft. 3164 ft. 3166 ft. 2704 ft. 2706 ft.

ft. 2644 ft. 2646 ft. 2492 ft. 2496 ft. 2692 ft. 2640 ft. 2642

ft. 2492 ft. 3166 ft with 72-710 gallons oil. 100,000 lb sd. I.R. 58.

barrels per min. TP 2180 lb. 12/03/64 3299 Plug 3225 ft. Testing on

pump. Pumped 79 barrels load oil in 24 hrs. 12/17/64 3299 Plug 3225

ft. Testing on pump. Pumped 17 barrels load oil in 24 hrs. 01/14/65

3299 Plug 3225 ft. Testing on pump. Pumped 15 barrels load oil/day.

01/21/65 3299 Plug 3225 ft. Shut down. Pumped 2 days. no recovery.

1113 barrels load oil left in hole.

H-19

#15

DWIGHT'S HOTLINE - Drilling History 21-27N-1E

Copyright 1989 Original Drill SW SW  
State : NEV HXICO NM Merid H# R-957291-0 Issued: 01/01/78

County: RIO ARRIBA Oper: BENSON MONTIN GREER DRLG

Field : PUERTO CHIQUITO MAN PEA: 13/01/63 DD DRY

Well: JICARILLA #16-6 Last Info: 05/22/83

Ftg: 660 #el 660 Fel API 30-039

Obj: 3100 Gallup Elev: 7240 KB

Prod well: Lessee: PB: 3225

Spud: 08/01/63 Contr: TD: 3299

Op Ad : 221 Petroleum Center Bldg., Farmington NM 87401

AA State Records 44 Elev: 7240 KB

Formation Record

Log Tops Depth Calc

Perfs : 2496-3156 w/1 SPF - frac w/77710 Gallup 2500 4740

20000 lb 10/40 sd

Core : None

Logs : ESI

Ceasing: 10 3/4 @ 107 w/80 - 7 @ 2439 w/150 - 5 1/2 in liner 2069-3296

Tubing: 2 3/8 @ 3100

Journal: PEA - 6/3/65

AA Shell Oil Data 44 Elev: 7240 KB

Formation Record

Log Tops Depth Calc

Ceasing: 10 3/4 cmtd @ 107 w/80, 7 cmtd @ 2439 w/150, 5 1/2 liner cmtd @ 2089- 3299 w/100 Gallup 2500 4740

Journal: 07/02/63 Loc: 08/36/63 107 Waiting on cement, Spud 7-31-63, 10-3/4

cmtd at 107 ft, 4th 80 sacks. 08/20/63 1047 Dr-19. 08/27/63 2440

Waiting on cable tools. 7 in cmtd at 2439 ft with 150 sacks.

09/04/63 2350 Dr-19 with cable tools. Show oil at 2495 ft. Shut in 4

hrs at 2587 ft. Bailed 8 gallons fluid, 504 oil and 504 wtr.

09/11/63 2980 Dr-19. Shut down at 2610 ft for 4 hrs, bailed 4

gallons H2O, rainbow show of oil; shut down at 2660 ft for 4 hours,

09/13 2-1/2 gallons H2O, rainbow show of oil; shut down at 2735 ft

for 4 hrs, bailed 3 gallons H2O, no show; shut down 2800 ft for 4

hrs; bailed 2-1/2 gallons H2O, rainbow show of oil; shut down at

2875 fr for 4 hrs, bailed 2-1/2 gallons H2O, rainbow show of oil;

DWIGHT'S HOTLINE - Drilling History 27-27N-1E

Copyright 1989 Original Drill SW SW  
State : NEV HXICO NM Merid H# R-960306-0 Issued: 01/01/78

DWIGHT'S HOTLINE - Drilling History 27-27N-1E

Copyright 1989 Original Drill SW SW  
State : NEV HXICO NM Merid H# R-960306-0 Issued: 01/01/78



H-21

DWIGHT'S HOTLINE - Drilling History

Copyright 1989 Original Drill ne se  
 State : NEW MEXICO MH Merid H# R-957279-D Issued: 01/01/78  
 County: RIO ARriba Oper: BENSON MONTIN GREER DRILG  
 Field : PUERTO CHICUITO MAN TA: 10/19/64 DD SUSPENDED  
 Well: APACHE #16-7 Last Info: 05/22/83  
 Ftg: 660 Fsl 860 Fel Permit: 08/30/63 API 30-039  
 Obj: 3000 Gallup Lease: Elev: 7192 KB  
 Prod well: Contr: DMN PB:  
 Spud: 08/28/63  
 TD: 3612

#16

Op Ad : 221 Petroleum Center Bldg., Farmington NM 87401  
 AA State Records 44 Elev: 7192 KB  
 Formation Record

Log	Log Tops	Depth	Calc
Casing	Cliff House	Mencos	Distum
10 3/4 @ 100 w/100 - 7 @ 2504	1793	3397	3612
w/150	2823	4367	
	3532	3650	

Journal: P&A  
 AA Shell Oil Data 44 Elev: 7192 KB  
 Formation Record

Casing: 10 3/4 cmtd 100 w/100, 7 cmtd @ 2804 w/150  
 Journal: 09/03/63 Loc: 09/09/63 2087 Drig. Mencos  
 Spud 8-28-63. 10-3/4 in cmtd Gallup  
 at 100 ft with 100 sacks. Senastee  
 09/17/63 2087 Waiting on cable tools. 7 in cmtd at 2804 ft with 150  
 sacks. Changed well number from "P-7". 11/06/63 2087 Rigging up  
 cable tools. 11/20/63 3350 Drig with cable tools. 12/17/63 3612 TD.  
 Shut down, waiting on orders. No cores, logs or DSI's. Shut down  
 from 10-19-64 to 3-1-67 at TD of 3612 Ft.

I-21

DWIGHT'S HOTLINE - Drilling History

Copyright 1989 Original Drill ne nw  
 State : NEW MEXICO MH Merid H# R-957293-D Issued: 01/01/78

28-27N-1E

H-22

DWIGHT'S HOTLINE - Drilling History

Copyright 1989 Original Drill ne se  
 State : NEW MEXICO MH Merid H# R-907557-D Issued: 10/31/78  
 County: RIO ARriba Oper: DAWSEY A L  
 Field : PUERTO CHICUITO E MAN TA: 03/16/87 D/SUSPENDED  
 Well: LILLIEL VADO #2 Last Info: 09/02/88  
 Ftg: 1770 Fsl 970 Fel Permit: 07/23/86 API 30-039-24053  
 Obj: 1500 Mencos Lease: Elev: 7157 GR  
 Prod well: Contr: Stan PB:  
 Spud: 1340  
 TD: Further information from operator or State office)

Notes : (Unable to colle Further information from operator or State office)  
 Journal: 12/9/86 WOCT.  
 0/22/86 WOCT.  
 6/14/87 drilled.  
 3/11/88 state office has not been able to get information from  
 operator.  
 4/14/88 WOCT since October 1986.  
 5/5/88 WOCT since October 1986.  
 9/2/88 operations suspended, no further information available.

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DWIGHT'S HOTLINE - Drilling History

Copyright 1989 Original Drill ne sw  
 State : NEW MEXICO MH Merid H# R-957294-D Issued: 01/01/78

28-27N-1E

K-5 Cum 91 MBSO #17

DWIGHT'S HOTLINE - Drilling History  
 Copyright 1989 Original Drill sw se  
 State : NEW MEXICO MI Merid HP R-957304-0 Issued: 01/01/78  
 County: RIO ARriba Oper: BENSON MONTIN GREER DRILG  
 Field : PUERTO CHICUITO W MAN PEA: 04/24/67 DO  
 Well: JICARILLA 202 #1 O-16 Last Info: 04/07/88  
 Prg: 1085 Feb 2052 Feb Permit: 03/23/67 API 30-039-20012  
 Obj: 7150 Mancos Lease: Elev: 7804 GR  
 Prod well: Lease: LOPFLAND BROS DRILG CO  
 Spud: 03/24/67 Contr: LOPFLAND BROS DRILG CO PB: 7200  
 TD: 7626  
 Op Ad : 221 Petroleum Center Bldg., Farmington MI 87401  
 AA State Records AA Elev: 7804 GR  
 Formation Record  
 IP : 11 BOPD Grav 38 Log Tops  
 Cliff House  
 Mancos Depth Datum  
 Gallip 5432 2372  
 Locito 5877 1927  
 Senaste 6440 1364  
 Carlile 7133 671  
 7448 356  
 7525 279  
 Ceasing: 13 3/8 @ 335 w/450 - 7 5/8 @  
 Journal: MD #E3-338 for their notice, /Jic 202 #1  
 AA Shell Oil Data AA  
 Ceasing: 13-3/8 catd @ 335 w/450  
 Journal: 03/22/67 Loc. 04/12/67 6020 Drig. 04/25/67 7626 TD. Preparing to abandon. No cores or DST's run.

K-4 Cum 2 MBSO #18

DWIGHT'S HOTLINE - Drilling History  
 Copyright 1989 Original Drill sw se  
 State : NEW MEXICO MI Merid HP R-957303-0 Issued: 01/01/78  
 County: RIO ARriba Oper: BENSON MONTIN GREER DRILG  
 Field : PUERTO CHICUITO E MAN Comp: 06/12/67 DG GAS  
 Well: JICARILLA 235 #1 291M Last Info: 04/07/88  
 Prg: 425 Feb 495 Feb Permit: 08/23/66 API 30-039  
 Obj: 4600 test Lease: Elev: 7132 GR  
 Prod well: Lease: LOPFLAND BROS DRILG CO  
 Spud: 08/23/66 Contr: PB: 3956  
 TD: 4968  
 Op Ad : 221 Petroleum Center Bldg., Farmington MI 87401  
 AA State Records AA Elev: 7132 GR  
 Formation Record  
 IP : P 11 BOPD grav 34, 3 MFCPO, 20 Log Tops  
 Cliff House  
 Mancos Depth Datum  
 Gallip 2530 4602  
 Locito 2935 4197  
 Senaste 3375 3757  
 Greenhorn 4395 2757  
 Dakota 4720 2412  
 4933 2199  
 Core : None  
 Logs : IES  
 Ceasing: 10 3/4 @ 175 w/150 - 7 @ 3999 w/300 - 3 1/2 in Lnr 4610-4908 - 5 1/2  
 in Lnr 3965-4685  
 Tubing: 2 7/8 @ 3793  
 Journal: /Jic 235 #1

Reported to have  
 water problems

L-5

DWIGHT'S HOTLINE - Drilling History Original Dr-111 Copyright 1989

30-27N-2W

L-4

DWIGHT'S HOTLINE - Drilling History Original Dr-111 Copyright 1989

29-27N-2W

I-1

**DWIGHT'S HOTLINE - Drilling History** 17-27N-1E

Copyright 1989 Original Drilling c sw se  
 State: NEW MEXICO IM Herid M# R-957280-D Issued: 01/01/78  
 County: RIO ARRIBA Oper: BENSON MONTIN GREER ORLG  
 Field: PUERTO CHICUITO E MAN Compl: 06/15/63 00 OIL  
 Well: APACHE 40-17 Last Info: 06/25/88  
 Ftg: 660 Psl 1980 Psl API 30-019  
 Obj: 3153 Greenhorn Permit: 10/15/62 Elev: 6979 DF  
 Prod Well: Lease: 20000  
 Spud: 10/10/62 Contr: PB: 2620  
 TD: 2826

Plus 2506 ft. swelling and testing. Set plug on each test. 05/09/63  
 Prepare to fracture bleed hole with 50 barrels oil. Scrubbed 55  
 barrels oil in 1 day from interval 147-2506 05/14/63 Testing on  
 complete led out brine plug at 2506 ft. Spotted 500 gal with 70,000  
 break-down acid. 5d oil fractured open hole at 2506-2620 with 70,000  
 gallons oil. 80,000 lb fracturing pressure. 2050  
 with 40 barrels/min. 05/21/63 Testing in Pump. 05/29/63 Injection  
 tests. 06/05/63 2826 TD Plug 2620 ft. Late. 06/12/63  
 Testing on pump, pumping back oil. Recovered all load. 10. Pumped  
 24 barrels oil/day based on 2 min test. 33 deg gravity. Producing  
 through open hole at Gas-lup formation. Interval 2506-2826 ft.

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**DWIGHT'S HOTLINE - Drilling History** 18-27N-1E

Copyright 1989 Original Drilling c se se  
 State: NEW MEXICO IM Herid M# R-957281-D Issued: 01/01/78  
 County: RIO ARRIBA Oper: BENSON MONTIN GREER ORLG  
 Field: PUERTO CHICUITO MAN PCA: DO DR: 10/15/65  
 Well: JICARILLA 238 92 Last Info: 09/15/87  
 Ftg: 660 Psl 660 Psl API 30-019  
 Obj: 4200 Sanastee Permit: 07/28/64 Elev: 7035 RL  
 Prod Well: Lease: .....  
 Spud: ..... Contr: PB: .....  
 TD: .....

Op Ad : 221 Petroleum Center Bldg., Farmington NM 87401  
 .. State Records ..  
 Ceiling: 10 3/4 @ 99 W/100  
 Journal: 7816-18. PCA

TD 99 /

Printed 10:41 AM TRN 1577 NM Page 1

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**DWIGHT'S HOTLINE - Drilling History** 29-27N-1E

Copyright 1989 Original Drilling se se  
 State: NEW MEXICO IM Herid M# R-957298-D Issued: 01/01/78  
 County: RIO ARRIBA Oper: BAYLESS ROBERT L  
 Field: PUERTO CHICUITO E MAN Compl: 05/10/63 00 OIL  
 .. State Records ..

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**DWIGHT'S HOTLINE - Drilling History** 29-27N-1E

Copyright 1989 Original Drilling se sw  
 State: NEW MEXICO IM Herid M# R-957299-D Issued: 01/01/78  
 County: RIO ARRIBA Oper: BAYLESS ROBERT L  
 Field: PUERTO CHICUITO E MAN Compl: 10/15/62 00 OIL  
 .. State Records ..

Printed 10:41 AM TRN 1579 NM Page 1

D C S C F W R C P SE T O IP PZ P Coi Loc Car Tu Job IP PZO Cas Pri  
 DW Cor Sta Cow File Ho

KELLAHIN AND KELLAHIN

ATTORNEYS AT LAW

EL PATIO BUILDING

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SANTA FE, NEW MEXICO 87504-2265

W. THOMAS KELLAHIN\*

\*NEW MEXICO BOARD OF LEGAL SPECIALIZATION  
RECOGNIZED SPECIALIST IN THE AREA OF  
NATURAL RESOURCES-OIL AND GAS LAW

JASON KELLAHIN (RETIRED 1991)

TELEPHONE (505) 982-4285  
TELEFAX (505) 982-2047

October 23, 1992

Mr. William J. LeMay  
Chairman  
Oil Conservation Commission  
310 Old Santa Fe Trail, Room 219  
Santa Fe, New Mexico 87501

RECEIVED

OCT 23 1992

OIL CONSERVATION DIVISION

HAND DELIVERED

Re: REQUEST FOR HEARING DENOVO  
NMOCD CASE 10534  
Order No. R-9735  
Application of American Hunter  
Exploration Ltd for Pressure Maintenance  
Project, Rio Arriba County, N.M.

Dear Mr. LeMay:

On behalf of Benson-Montin-Greer Drilling Corporation, please find enclosed our request for a Hearing DeNovo of the referenced case before the New Mexico Oil Conservation Commission.

Very truly yours,

  
W. Thomas Kellahin

WTK/jcl  
Enclosures

cc: With Enclosures  
David R. Catanach, OCD-Hearing Examiner  
Robert G. Stovall, Esq.  
William F. Carr, Esq.  
James Bruce, Esq.  
Al Greer (BMG-Drilling Corp.)

appt1023.625

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

RECEIVED

OCT 23 1992

OIL CONSERVATION DIVISION

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

CASE NO. 10534  
Order No. R-9735

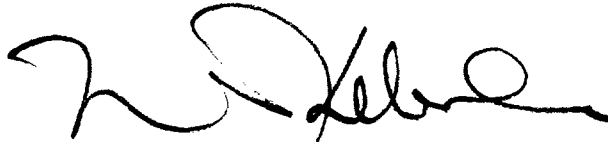
APPLICATION OF AMERICAN HUNTER  
EXPLORATION, LTD. FOR A PRESSURE  
MAINTENANCE PROJECT, RIO ARRIBA  
COUNTY, NEW MEXICO.

**BENSON-MONTIN-GREER DRILLING CORPORATION'S**  
**REQUEST FOR A DE NOVO HEARING**  
**BEFORE THE**  
**NEW MEXICO OIL CONSERVATION COMMISSION**

Comes now BENSON-MONTIN-GREER DRILLING CORPORATION,  
a party of record before the New Mexico Oil Conservation  
Division in Case 10534 and adversely affected by Division  
Order R-9735 entered September 23, 1992, by its attorneys  
Kellahin & Kellahin and pursuant to Section 70-2-13 NMSA-  
1978, hereby requests that the New Mexico Oil  
Conservation Commission hold a HEARING DENOVO in this  
matter.

Request of Benson-Montin-Greer  
Drilling Corp. for DeNovo Hearing  
Page 2

Respectfully Submitted:



W. Thomas Kellahin  
Kellahin & Kellahin  
P. O. Box 2265  
Santa Fe, New Mexico 87501  
(505) 982-4285  
ATTORNEYS FOR BENSON-MONTIN-  
GREER DRILLING CORPORATION

**CERTIFICATE OF MAILING**

I, W. Thomas Kellahin, hereby certify that on this 23rd day of October, 1992 I provided a copy of the foregoing pleading by regular mail or hand delivery to all counsel of record in this matter.



W. Thomas Kellahin