

**FINNEY LAND CO.**  
OIL & GAS CONSULTING  
P.O. BOX 2471  
DURANGO, CO 81302  
PHONE: (970) 259-5691 • FAX (970) 259-4279

RECEIVED

NOV 29 01

00100

November 26, 2001



Mr. Bill McCaw  
Colorado Oil & Gas Conservation Commission  
1120 Lincoln Street, Suite 801  
Denver, Colorado 80203

RE: Risk Assessment  
MarkWest Resources, Inc.  
R&G #26-2 Well

Dear Bill:

Attached please find a copy of the Risk Assessment Report that McLean Engineering did for the Tiffany #1 Well, a P&A'd well located in the SE/4 of Sec. 26, T33N-R7W. This report is required as a condition of the APD approval for the R&G #26-2 Well that has already been submitted. The report does not find any problems.

This should be the last thing that you need in order to finish processing the APD for the R&G #26-2 Well. Please let me know if this is not the case. Thank you for your help.

Best regards,

A handwritten signature in black ink, appearing to read 'Michael J. Finney', written over a horizontal line.

Michael J. Finney, CPL  
For: MarkWest Resources, Inc.

xc: Scott Daves

# McLEAN ENGINEERING, INC.

Prudential Center  
700 Main Ave., Suite G  
Durango, CO 81301

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November 20, 2001

Colorado Oil and Gas Conservation Commission  
1120 Lincoln Street, Suite 501  
Denver, CO 80203

Dear Sir or Madam:

In September of this year, MarkWest Resources, Inc. submitted a Form 2 APD to drill and complete the R&G 26-2. Within the same quarter section (and almost 1,000' distant) as the proposed well is a P&A'd well: the Tiffany #1. Per COGCC rules, an operator must perform an assessment of any nearby P&A'd wells prior to getting a new APD approved.

On behalf of MarkWest Resources, Inc., following is the risk assessment of the Tiffany #1. Please note that the following information and assessment are based on documents down-loaded from the COGCC website. Those referenced documents are attached to this report.

The Tiffany #1 well was spud on November 20, 1954 and was completed as a "Fruitland Gas Well" with a gross perforation interval of 2,388' - 2,484'. Reported cement tops were not found on any documents, but were calculated as follows:

<u>Casing Size</u>	<u>Hole Size</u>	<u>Annular Volume</u>	<u>Sacks Cement</u>	<u>Cement Volume</u>	<u>Est. TOC</u>	<u>Comments</u>
9-5/8"	13-3/4"	131 ft3	150	174 ft3	Surface	No Documentation on hole size. Hole could have been 12-1/4".
5-1/2"	7-7/8"	711 ft3	200	238 ft3	1707'	TOC calculation includes 70% excess hole volume.

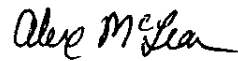
The Tiffany #1 was uneconomic and was plugged on September 6, 1961. A wellbore diagram showing both the initial completion and the final plugged configuration is attached. According to the COGCC Plugging Record, the perfs were squeezed, the 5-1/2" casing cut-off at 1,450'. A 50' cement plug was put on top of the cut-off casing. A 100' cement plug was put at the bottom of the surface casing and a 5' cement plug was put directly at surface. Drilling mud was used between cement plugs. A P&A marker was installed. A Field Inspection of the Tiffany #1 on October 2, 1998 did not discover any concerns or problems.

November 20, 2001

This plugging procedure used on the Tiffany #1 more than adequately protects current and future domestic water wells. Additionally, it would very unlikely that this well could ever be affected by the proposed MarkWest Fruitland well. The Fruitland in the Tiffany #1 is adequately protected due to cement behind the 5-1/2" casing and due to the multiple cement plugs above the Fruitland perfs.

Based on reviewing the COGCC information, and based on my drilling and completion experience in the San Juan Basin, it is my professional opinion that there is no risk associated with the proposed R&G 26-2 well relative to the Tiffany #1. Approval of the MarkWest permit is therefore recommended.

Sincerely,



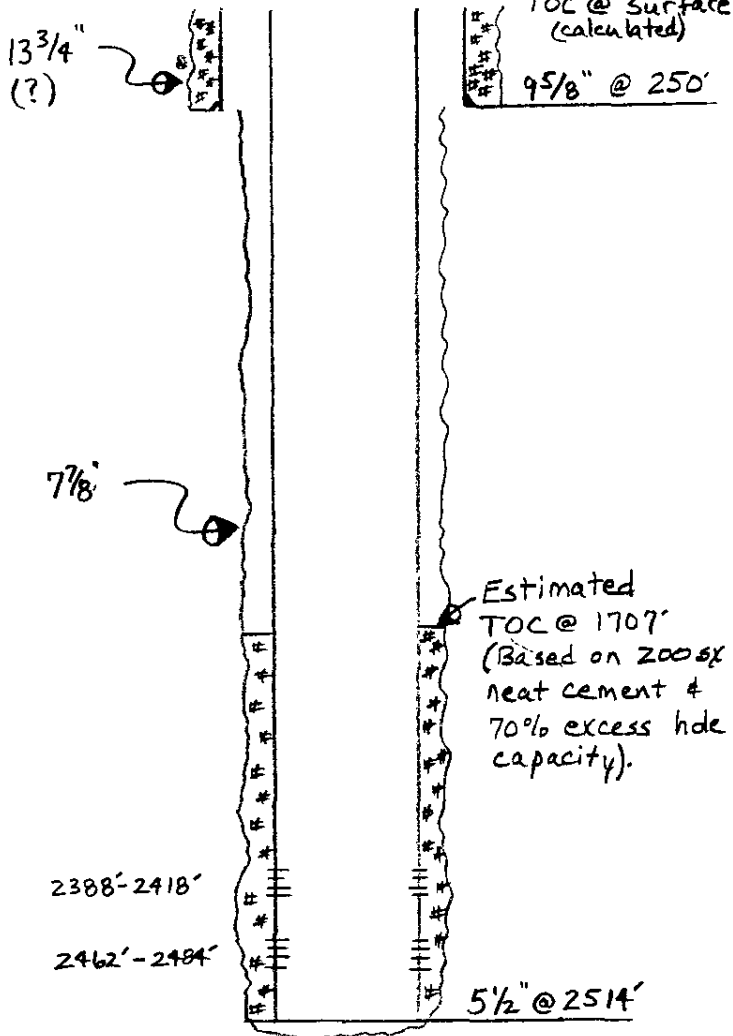
Alex McLean. P.E.  
Consulting Petroleum Engineer

Attachments: Tiffany #1 Wellbore diagram  
COGCC GIS Map showing Section 26 wells  
COGCC Sundry Notice dated Nov. 15, 1954  
COGCC Sundry Notice dated Mar. 2, 1955  
COGCC Form 2 dated Jan. 27, 1956  
COGCC Plugging Record dated Oct. 13, 1966  
COGIMS Field Inspection Report

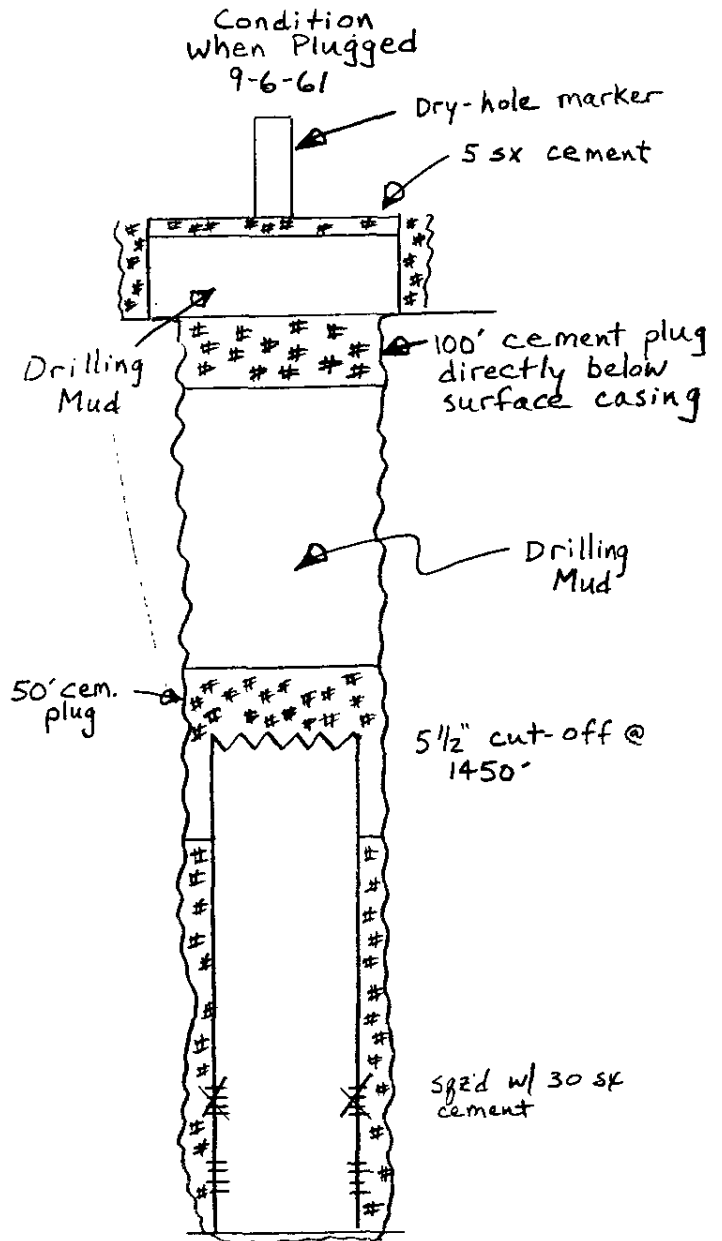
Tiffany #1  
SE-26-33N-7W  
La Plata County, CO

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07000

Initial  
Completion  
1955



Based on COGCC Form 1 (3/10/55)  
and on COGCC Form 2 (1/27/56)



Based on COGCC  
"Plugging Record"  
(10/13/66)

QMM 11/20/01

# COGCC GIS Online

## OIL AND GAS WELLS

### ● Oil/Gas Wells

### ∅ Well Status

- ∅ Aban Loc
- Location
- Producing
- ◆ Shut In
- ◆ Temp Aban
- ◆ Waiting On
- ◆ Injecting
- ◆ Plugged
- ◇ Dry & Aban
- Domestic
- Location
- Unknown
- Unknown

### Well Name

## ROADS & RR

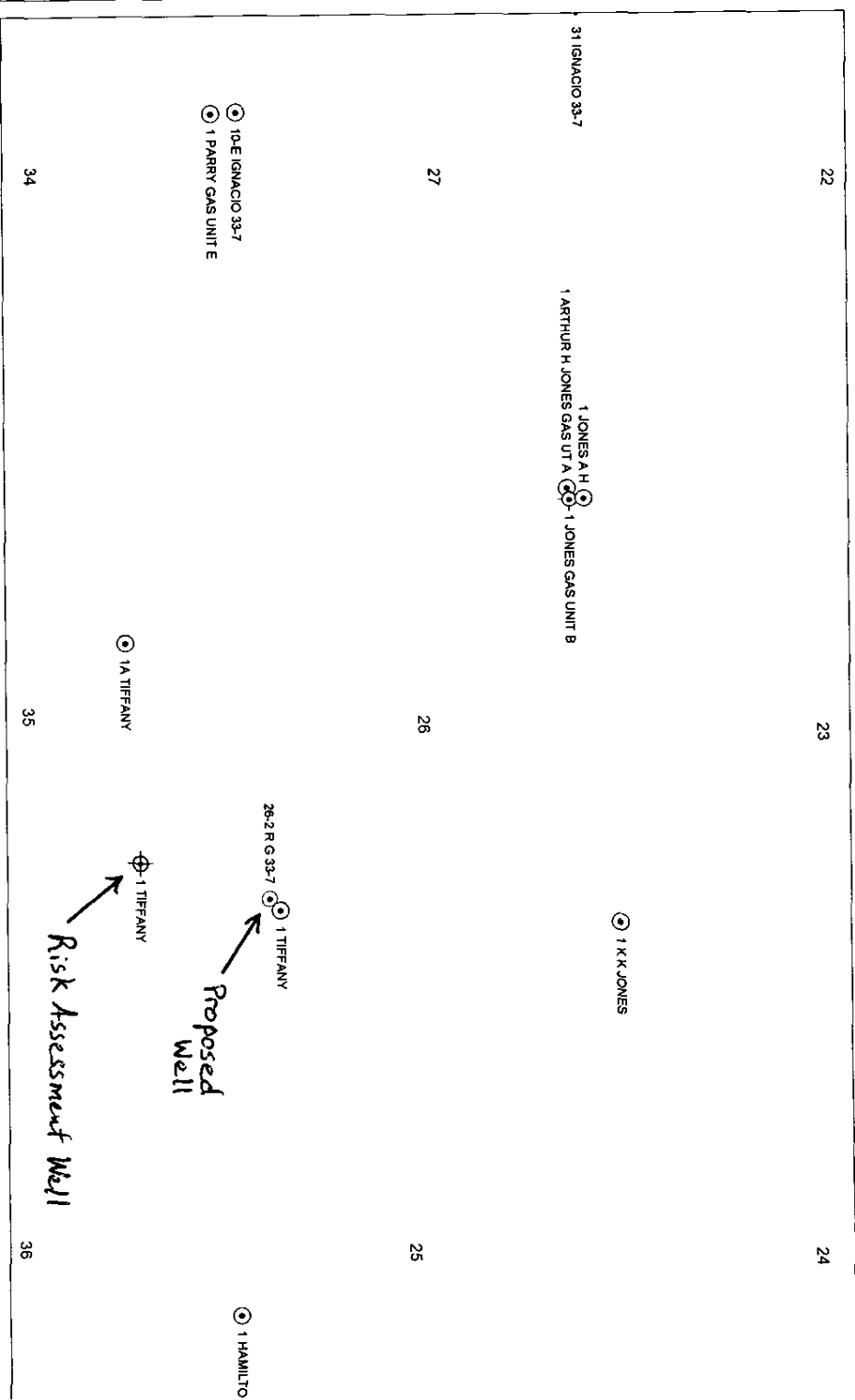
### Major Highways

### CITY BOUNDARIES

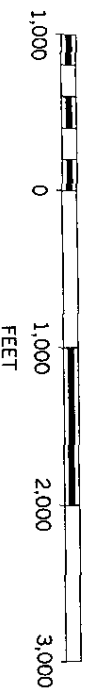
## LAND GRID

### □ Protracted Twps

### □ Townships



SCALE 1 : 14,604



06705261

**Colorado**  
**Oil & Gas Conservation Commission****COGIMS Field Inspection Report**

Related  GIS  Doc			
API Number:	05-067-05261-00	Well Name:	TIFFANY
Well Location:	SWSE 26 33N 7W	Lat: 37.069445	Long: -107.573933
Operator #:	72933	Operator Name:	R & G DRLG CO INC
Inspection Date:	10/2/1998	Inspector:	3000025

Inspection was: **Passed**

Insp. Type: HR	Insp. Stat: PA	Plugged: P	Pass/Fail: P
Violation: N		NOAV Sent:	
UIC Violation Type:		UIC NOAV Sent:	
Inj. Pressure:		T-C Ann. Pressure:	
Date Corrective Action Due:		Date Remedied:	

**Field Inspection Comments and Observations**

Insp. Comment	Inspection/Violation Comments
HISTORICAL	

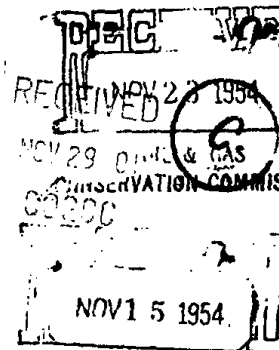
Return to

[Previous Page](#)[Home](#)



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**COLORADO OIL AND GAS CONSERVATION COMMISSION  
SUNDRY NOTICES AND REPORTS OF WELLS**



(Indicate nature of data by checking below)

Notice of intention to drill X  
 Notice of intention to change plans \_\_\_\_\_  
 Notice of date for test of water shut-off \_\_\_\_\_  
 Report on result of test of water shut-off \_\_\_\_\_  
 Notice of intention to re-drill or repair well \_\_\_\_\_  
 Notice of intention to clean out well \_\_\_\_\_  
 Statement of shooting \_\_\_\_\_  
 Statement of perforating \_\_\_\_\_  
 Notice to pull or otherwise alter casing \_\_\_\_\_  
 Notice of intention to abandon well \_\_\_\_\_  
 Report of work done on well since previous report \_\_\_\_\_

OIL & GAS  
CONSERVATION COMMISSION

Following is a (notice of intention to do work) November 10 19 54  
 (~~report of work done~~) (patented) described as follows:

State	County	Field
Colorado	La Plata	Ignacio
<u>1</u>	<u>Tiffany</u>	<u>Section 26, SE 1/4</u>
(Well No.)	(Lease)	(Sec. and 1/4 Sec.)
		<u>T-33-N</u>
		(Twp.)
		<u>R-7-W</u>
		(Range)
		<u>N 2 1/2 E</u>
		(Meridian)

The well is located 660 ft. (N) of South and 1650 ft. (E) of East

Line, Section 26.

The elevation above sea level is 6412 ft.

Details of Plan of Work: (State names of and expected depths to objective sands; Show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work.)

We propose to drill the above well to Approx. 2600', top of Picture Cliffs Formation, with Rotary tools.

Casing will be set thru Fruitland pay and will be selectively perforated after running logs. No stimulation is planned at present time.

The casing program is proposed as follows:

SIZE	DEPTH	CEMENT
8 5/8"	400'	Circulated
5 1/2"	2600'	To be determined and reported

REMARKS  
SE 1/2 of Section 26, Designated  
Drilling Unit

Copies of location plats are attached. A copy of any survey taken will be submitted upon completion of well

AAJ  
 DVR  
 FJK  
 PS  
 H  
 JJD  
 FILE

Approved: 11-23-54

H. J. Jensen  
 Director NHM

Company R. and G. Drilling Company, Inc

Address Box 1648, Farmington, N.M.

By William C. Cress  
 Title President

Submit reports of proposed work, for approval, on this form in Duplicate for patented lands and in Triplicate for school and state lands.

COLORADO OIL AND GAS CONSERVATION COMMISSION  
SUNDRY NOTICES AND REPORTS OF WELLS

RECEIVED  
MAR 2 195

**OIL & GAS  
CONSERVATION COM**

(Indicate nature of data by checking below)



## Locate Well Correctly

Notice of intention to drill (attach plat) \_\_\_\_\_  
 Notice of intention to change plans \_\_\_\_\_  
 Notice of date for test of water shut-off \_\_\_\_\_  
 Report on result of test of water shut-off \_\_\_\_\_  
 Notice of intention to re-drill or repair well \_\_\_\_\_  
 Notice of intention to clean out well \_\_\_\_\_  
 Statement of shooting \_\_\_\_\_  
 Statement of perforating \_\_\_\_\_  
 Notice to pull or otherwise alter casing \_\_\_\_\_  
 Notice of intention to abandon well \_\_\_\_\_  
 Report of work done on well since previous report \_\_\_\_\_

		o	

Notice to do work ☐  
Report of work done ☒

Land: Fee and Patented ☒ State

Lease No.

Colorado  
State

La Plata  
County

Ignacio  
Field

1                      Tiffany                      8E                      26                      33N                      7-W                      NRPM  
(Well No.)                      (Lease)                      (1/4 Sec.)                      (Sec.)                      (Twp.)                      (Range)                      (Meridian)

The Well is located 660 Ft. N ~~(N)~~<sup>(S)</sup> of Section Line and 1650 Ft. ~~(S)~~<sup>(W)</sup> of Section Line.

The elevation above sea level is 6412 Ft.

Details of Plan of Work: (State names of and expected depths to objective sands. Show sizes, weights, and length of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work.)

Using rotary tools, 7 7/8" hole was cut to 2519' at which point 5 1/2", 14#, casing was set with 150 socks. The Fruitland sand was trapped at 2364' and drilled in with 13# mud. Casing perforated as follows: 2388 to 2418 - 60 Kone and 60 bullets, 2462 to 2484 - 44 Kone and 44 bullets. A copy of Lane Wells' Radioactivity Log is attached hereto -

AJJ
DVR
FJK
OPS
HHM
AH
JJD
FILE

Approved: MAR 7 1955

Date February 23, 1955

Company R & G DRILLING CO., INC.

Address P. O. Box 1848 Farmington

Title President

Submit reports of proposed work, for approval, on this form in Duplicate for patented lands and in Triplicate for school and state lands.



File in duplicate on Fee and Patented lands and in quadruplicate on State and School lands, with

OFFICE OF DIRECTOR  
OIL AND GAS CONSERVATION COMMISSION,  
STATE OF COLORADO

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<del>8</del>			0

### Locate & Well Correctly

DECEMBER 1956

**OIL & GAS  
CONSERVATION COMMISSION**

## OIL AND GAS WELL

Field Ignacio Company R & G DRILLING COMPANY, INC.  
County La Plata Address Box 1848, Farmington, N. M.  
Lease Tiffany  
Well No. 1 Sec. 26 Twp. 33N Rge. 7W Meridian \_\_\_\_\_ State or Pat. \_\_\_\_\_  
Location 660 Ft. (N) of S \_\_\_\_\_ Line and 1650 Ft. (W) of E \_\_\_\_\_ Elevation \_\_\_\_\_  
(Derrick floor relative to sea level)

The information given herewith is a complete and correct record of the well and all work done thereon so far as can be determined from all available records.

Signed William P Russell

Date 1-26-56

Title President

The summary on this page is for the condition of the well as above date.

The summary on this page is for the condition of the well as above data.

Commenced drilling November 20, 1954 Finished drilling December 30 1954

**OIL AND GAS SANDS OR ZONES**

No. 1, from 2455 to 2515 No. 4, from \_\_\_\_\_ to \_\_\_\_\_  
No. 2, from \_\_\_\_\_ to \_\_\_\_\_ No. 5, from \_\_\_\_\_ to \_\_\_\_\_  
No. 3, from \_\_\_\_\_ to \_\_\_\_\_ No. 6, from \_\_\_\_\_ to \_\_\_\_\_

### IMPORTANT WATER SANDS

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

### CASING RECORD

SIZE	WT. PER FOOT	MAKE	WHERE LANDED	NO. OF SBS. CEMENT	STOOD HOURS	PRESSURE TEST PSI
9 5/8	28#	CF&I	250'	150	24	
5 1/2	14#	"	251 1/2	200	72	

### COMPLETION DATA

COMPLETION DATA

Total Depth 2515 ft. Cable Tools from \_\_\_\_\_ to \_\_\_\_\_ Rotary Tools from 0 to TD  
Casing Perforations (prod. depth) from \_\_\_\_\_ to \_\_\_\_\_ ft. No. of holes \_\_\_\_\_  
Acidized with \_\_\_\_\_ gallons. Other physical or chemical treatment of well to induce flow \_\_\_\_\_  
Shooting Record \_\_\_\_\_ Pump \_\_\_\_\_

Shooting Record \_\_\_\_\_ Pump ☐  
 \_\_\_\_\_ Choke ☐  
 Prod. began \_\_\_\_\_ 19\_\_\_\_ Making \_\_\_\_\_ bbls./day of \_\_\_\_\_ A. P. I. Gravity Fluid on \_\_\_\_\_  
 Tub. Pres. 1426 lbs./sq. in. Csg. Pres. 1426 lbs./sq. in. Gas Vol. 140 Mcf. Gas Oil Ratio \_\_\_\_\_  
 Length Stroke \_\_\_\_\_ in. Strokes per Min. \_\_\_\_\_ Diam. Pump \_\_\_\_\_ in.  
 B. S. & W. \_\_\_\_\_ % Gas Gravity \_\_\_\_\_ BTU's/Mcf. \_\_\_\_\_ Gals. Gasoline/Mcf. \_\_\_\_\_

## WELL DATA

Indicate (yes or no) whether or not the following information was obtained.

Indicate (Yes or No) whether the following are included in the log.

Electrical Log Yes Date Dec. 28 19 54  
Date \_\_\_\_\_ 19 \_\_\_\_\_

Time Drilling Record \_\_\_\_\_

Core Analysis \_\_\_\_\_ Depth \_\_\_\_\_ to \_\_\_\_\_  
to \_\_\_\_\_

Straight Hole Survey \_\_\_\_\_ Type \_\_\_\_\_  
Other Types of Hole Survey \_\_\_\_\_ Type \_\_\_\_\_  
(Note—Any additional data can be shown on reverse side.)

**FORMATION RECORD**

Show all formations, especially all sands and character and contents thereof.

FORMATION	TOP	BOTTOM	REMARKS
✓	Completed as a Fruitland Gas Well.		

DVR	
EJK	
WRS	
HHM	
AH	
JJD	✓
FILE	

(Continue on reverse side)

OIL AND GAS COM  
OF THE STATE

SION

## PLUGGING RECORD

 RECEIVED  
 OCT 13 1966  
 COLO. OIL & GAS CONS. COMM.

## INSTRUCTIONS

Within thirty (30) days after the plugging of any well, the owner or operator thereof shall file this form in duplicate for wells on Patented or Federal lands, and in triplicate for wells on State lands, give a detailed account of the manner which the abandonment or plugging work was carried out, including the nature and quantities of materials used in plugging and the location and extent (by depths) of the plugs of different materials; records of the amount, size and location (by depths) of casings and junk left in the well; and a detailed statement of the volume and weight of mud fluid used

Operator R & G DRILLING COMPANY, INC.Field Ignacio Blanco 383Lease Name Tiffany (fee)Well No. 1County La PlataLocation SW 1/4 SE/4  
(Quarter Quarter)Section 26Township 33NRange 7WMeridian NMP660

feet from

S

Nor S

Section line and

1650'

feet from

E

Nor W

Section Line

TOTAL DEPTH 2519'DATE OF PLUGGING 9-6-61

## DETAILS OF WORK

Perforation (2388' - 2418') squeezed with thirty (30) sacks of neat cement. Shot off casing (5 1/2" x 14") at 1450' and set fifty (50') foot cement plug on nub. Set one hundred (100') foot cement plug at bottom of surface pipe (251' x 9 5/8"). Plugged surface pipe with five (5) sacks cement and erected dry-hole marker. Hole loaded with mud throughout.

DVS	
V/S	
RES	
IR	
EP	✓
LC	✓
FILE	

I/we hereby swear (or affirm) that the statements herein made are a full and correct report:

Approved:

Date OCT 20 1966

Director

Company

Banner Nub Co

Date

9-15-6

Address

21 Crestview Dr

Phone No.

325-9

By

Frank H. York

Title

AgentFarmington NM