

STATE OF NEW MEXICO  
ENERGY AND MINERALS DEPARTMENT

Form C-104  
Revised 10-01-78  
Format 08-01-83  
Page 1

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

NO. OF COPIES DESIRED	
DISTRIBUTION	
SANTA FE	
FILE	
U.S.D.A.	
LAND OFFICE	
TRANSPORTER	OIL
	NATURAL GAS
OPERATOR	
PRODUCTION OFFICE	

REQUEST FOR ALLOWABLE  
AND  
AUTHORIZATION TO TRANSPORT OIL AND NATURAL GAS

I.

Operator  
Meridian Oil Inc.

Address  
P. O. Box 4289, Farmington, NM 87499

Reason(s) for filing (Check proper box)

<input type="checkbox"/> New Well	Change in Transporter of:	<input type="checkbox"/> Dry Gas
<input type="checkbox"/> Recompletion	<input type="checkbox"/> Oil	<input checked="" type="checkbox"/> Condensate
<input checked="" type="checkbox"/> Change in Ownership	<input type="checkbox"/> Casinghead Gas	

Other (Please explain)  
Meridian Oil Inc. is Operator for El Paso Production Company

If change of ownership give name and address of previous owner El Paso Natural Gas Company, P. O. Box 4289, Farmington, NM 87499

II. DESCRIPTION OF WELL AND LEASE

Lease Name <u>Turner Hughes</u>	Well No. <u>1</u>	Pool Name, including Formation <u>Blanco Fletcher Kutz Pic. Cliffs Ext</u>	Kind of Lease State, Federal or Fee <u>SE 078050</u>	Lease No.
Location Unit Letter <u>M</u> : <u>660</u> Feet From The <u>South</u> Line and <u>660</u> Feet From The <u>West</u> Line of Section <u>3</u> Township <u>27N</u> Range <u>9W</u> . NMPM, <u>San Juan</u> County				

III. DESIGNATION OF TRANSPORTER OF OIL AND NATURAL GAS

Name of Authorized Transporter of Oil <input type="checkbox"/> or Condensate <input checked="" type="checkbox"/> <u>Meridian Oil Inc.</u>	Address (Give address to which approved copy of this form is to be sent) <u>P. O. Box 4289, Farmington, NM 87499</u>
Name of Authorized Transporter of Casinghead Gas <input type="checkbox"/> or Dry Gas <input checked="" type="checkbox"/> <u>El Paso Natural Gas Company</u>	Address (Give address to which approved copy of this form is to be sent) <u>P. O. Box 4289, Farmington, NM 87499</u>
If well produces oil or liquids, give location of tanks. Unit <u>M</u> Sec. <u>3</u> Twp. <u>27N</u> Rge. <u>9W</u>	Is gas actually connected? <input type="checkbox"/> when

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

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

VI. CERTIFICATE OF COMPLIANCE

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

[Signature]  
(Signature)  
Drilling Clerk  
(Title)  
11-1-86  
(Date)

OIL CONSERVATION DIVISION

APPROVED NOV 01 1986, 19 \_\_\_\_\_

BY [Signature]

TITLE SUPERVISION DISTRICT # 3

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

NOV 01 1986  
OIL CON. DIV.  
DIST. 3

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

RECEIVED  
BLM

95 JUN 26 PM 12:59

Sundry Notices and Reports on Wells

070 FARMINGTON, NM

1. Type of Well  
GAS

5. Lease Number  
SF-078050

6. If Indian, All. or  
Tribe Name

7. Unit Agreement Name

2. Name of Operator  
MERIDIAN OIL

8. Well Name & Number  
Turner Hughes #1

3. Address & Phone No. of Operator  
PO Box 4289, Farmington, NM 87499 (505) 326-9700

9. API Well No.  
30-045-06761

4. Location of Well, Footage, Sec., T, R, M  
660' FSL, 660' FWL, Sec.3, T-27-N, R-9-W, NMPM

10. Field and Pool  
South Blanco Pict.Cliffs

11. County and State  
San Juan Co, NM

12. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OTHER DATA

Type of Submission

Type of Action

- |  |   |  |
|--|---|--|
| <input checked="" type="checkbox"/> Notice of Intent | <input type="checkbox"/> Abandonment                    | <input type="checkbox"/> Change of Plans         |
| <input type="checkbox"/> Subsequent Report           | <input type="checkbox"/> Recompletion                   | <input type="checkbox"/> New Construction        |
| <input type="checkbox"/> Final Abandonment           | <input type="checkbox"/> Plugging Back                  | <input type="checkbox"/> Non-Routine Fracturing  |
|  | <input type="checkbox"/> Casing Repair                  | <input type="checkbox"/> Water Shut off          |
|  | <input type="checkbox"/> Altering Casing                | <input type="checkbox"/> Conversion to Injection |
|  | <input checked="" type="checkbox"/> Other - Restimulate |  |

13. Describe Proposed or Completed Operations

It is intended to clean out the existing Pictured Cliffs open hole, run and cement 3 1/2" casing. The well will then be perforated and fracture treated according to the attached procedure and wellbore diagram.

RECEIVED  
JUL 01 1996  
OIL CON. DIV.  
DIST. 3

14. I hereby certify that the foregoing is true and correct.

Signed [Signature] (PMP1) Title Regulatory Administrator Date 6/25/96

(This space for Federal or State Office use)

APPROVED BY \_\_\_\_\_ Title \_\_\_\_\_ Date \_\_\_\_\_

CONDITION OF APPROVAL, if any:

NMOCD

APPROVED  
1996  
[Signature]

TURNER HUGHES #1 PC  
 Workover Procedure  
 M 3 27 9  
 San Juan County, N.M.  
 Lat-Long: 36.598557 - 107.781281

1. Comply to all NMOCD, BLM, & MOI rules & regulations. MOL and RU completion rig. NU 6" 900 series BOP w/flow tee and stripping head. NU blooie line & 2-7/8" relief line.
2. TOH w/1" tbg & lay down. TIH w/4-3/4" bit on 2-3/8" rental tbg & C.O. w/air/mist to new TD 2470'. Load hole w/1% KCL water. TOH.
3. MI Blue Jet. Run an advanced integrated data processing GSL neutron log 2470'-2000' & coorelate to 5-1/2" shoe @ 2313'.
4. Run 3-1/2"-OD 9.2# J-55 NUE tbg to TD 2470' w/Omega type latching collar above 2' tbg sub w/notched collar on bottom. Cement w/220sx 50-50 CI"B" POZ w/2% gel & 6-1/2#/sx kolite & 10% salt & 2% Cacl. (yield=1.44 cf/sx). After cmt, break & wash lines, run 2 wiper balls & Omega wiper latching plug, followed by 100 gal 7-1/2% HCL acid. Displace acid w/1%KCL water. Space out using tbg subs & install 3-1/2" csg in new csg spool. Install 6000 psi rental frac valve on 3-1/2" csg.
5. Pressure test csg to 6000 psi. MI Basin Perforating. Run GR-CCL & coorelate to neutron log. Perf PC w/about 16 holes over 150' of PC interval as per Production Engineering Dept. Perf w/2-1/8" SHOGUN SDP STP-2125-401NT 14 gr charges which make a 0.27" hole & 21.8" of penetration in concrete
6. Break down PC perfs down 3-1/2" csg w/2000 gal 15% GCL & 150% excess perf balls. Acidize @ 7 BPM w/max pressure = 6000 psi. Run junk basket to retrieve balls.
7. Spot & fill 2-400 bbl. frac tanks w/2% KCL water. Filter all water to 25 microns. One tank is for gel & one tank is for breakdown water. Usable gel water required for frac is 355 bbls.
8. Frac PC down 3-1/2" csg w/49,000 gals. of 70 quality foam using 30# gel as the base fluid & 80,000# 20/40 Arizona sand. Pump at 70 BPM. Monitor bottomhole & surface treating pressures, rate, foam quality, & sand concentration with computer van. Sand to be tagged w/ 0.4 mCi/1000# Ir-192 tracer. Max. pressure is 6000 psi & estimated treating pressure is 5500 psi. Treat per the folowing schedule:

<u>Stage</u>	<u>Foam Vol. (Gals.)</u>	<u>Gel Vol. (Gals.)</u>	<u>Sand Vol. (lbs.)</u>
Pad	14,000	4,200	—
1.0 ppg	10,000	3,000	10,000
2.0 ppg	10,000	3,000	20,000
3.0 ppg	10,000	3,000	30,000
4.0 ppg	5,000	1,500	20,000
Flush	( 844)	(253)	0
Totals	49,000	14,700	80,000#

Shut well in after frac for six hours in an attempt to allow the gel to break. Treat frac fluid w/the following additives per 1000 gallons:

- \* 30# J-48 (Guar Gel mix in full tank - 16,000 gal)
- \* 1.0 gal. Aqua Flow (Non-ionic Surfactant mix in full tank)
- \* 1.0# GVW-3 (Enzyme Breaker mix on fly)

TURNER HUGHES #1 PC - PC RESTEM

- \* 1.0# B - 5 (Breaker mix on fly)
- \* 3.0 gal Fracfoam I (Foamer mix on fly)
- \* 0.38# FracCide 20 (Bactericide mix on full tank)

9. Open well through choke manifold & monitor flow. Flow @ 20 bbl/hr, or less if sand is observed. Take pitot gauges when possible.
10. Change out frac valve w/tbg head. TIH w/notched collar on 1-1/4" IJ tbg & C.O. to 2468'. Monitor gas & water returns & take pitot gauges when possible.
11. When wellbore is sufficiently clean, TOH & run after frac gamma-ray log from 2468'-2000'.
12. TIH w/1-1/4" IJ tbg w/standard seating nipple one joint off bottom & again cleanout to 2468'. Use expendable check if necessary. When wellbore is sufficiently clean, land tbg @ 2350' KB. Take final water & gas samples & rates.
13. ND BOP & NU wellhead & tree. Rig down & release rig.

Recommended:  4/25/16  
Production Engineer

 4/27/16  
Approve:   
Drilling Superintendent

VENDORS:

Logging:	Blue Jet	325-5584
Perfing	Basin	327-5244
Fracturing:	BJ	327-6222
RA Tag:	Pro-Technics	326-7133
Csg Equip:	Howco	325-3575
Cmt	Howco	325-3575

PMP

**Pertinent Data Sheet - TURNER HUGHES #1 PC**

**Location:** 660' FSL & 660' FWL, Unit M, Section 3, T27N, R9W, San Juan County, New Mexico

**Field:** South Blanco PC

**Elevation:** 6255' GL

**TD:** 2389'

**PBTD:** 2389'

**Completed:** 8/19/52

**Spud Date:** 3/26/52

**DP #:** 48747A

**Lease:** Fed: SF 078050

**GWl:** 100%

**NRI:** 75%

**Prop#:** 012633004

**Initial Potential:** Initial Potential = 175 MCF/D, SICP=590 psi

**Casing Record:**

<u>Hole Size</u>	<u>Csg Size</u>	<u>Wt. &amp; Grade</u>	<u>Depth Set</u>	<u>Cement</u>	<u>Cement (Top)</u>
13-3/4"	8-5/8"	28# J&L	117'	75 sx.	Circ Cmt
7-7/8"	5-1/2"	17# J&L	2313'	150 sx.	1547' @ 75% Eff.

**Tubing Record:**

<u>Tbg. Size</u>	<u>Wt. &amp; Grade</u>	<u>Depth Set</u>	
1"	N/A	2378'	115 Jts

**Formation Tops:**

Ojo Alamo:	e1352'
Kirtland Shale:	e1467'
Fruitland:	e2084
Pictured Cliffs:	e2313'

**Logging Record:** None

**Stimulation:** Shot Open Hole w/136 Qts SNG

**Workover History:** 7/31/55: Cleaned out to 2389'. Fraced w/11,000# sand in 7800 gal diesel.

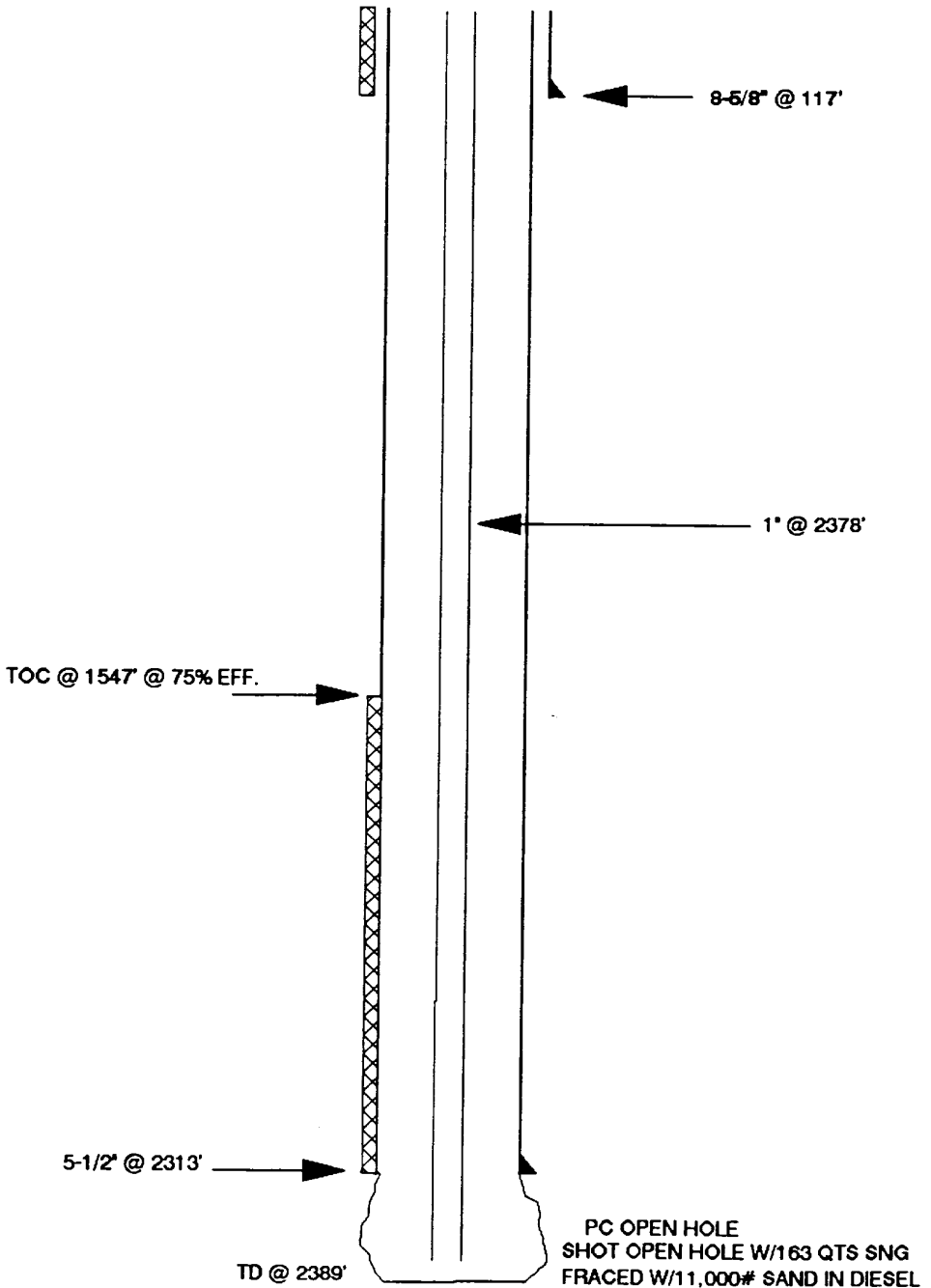
**Production history:** PC 1st delivered 10/53. Current PC capacity is 0 MCF/D. PC cum is 464 MMCF.. W/ 0MMCF booked.

**Pipeline:** EPNG

# TURNER HUGHES #1 PC

UNIT M SECTION 3 T27N R9W  
SAN JUAN COUNTY, NEW MEXICO

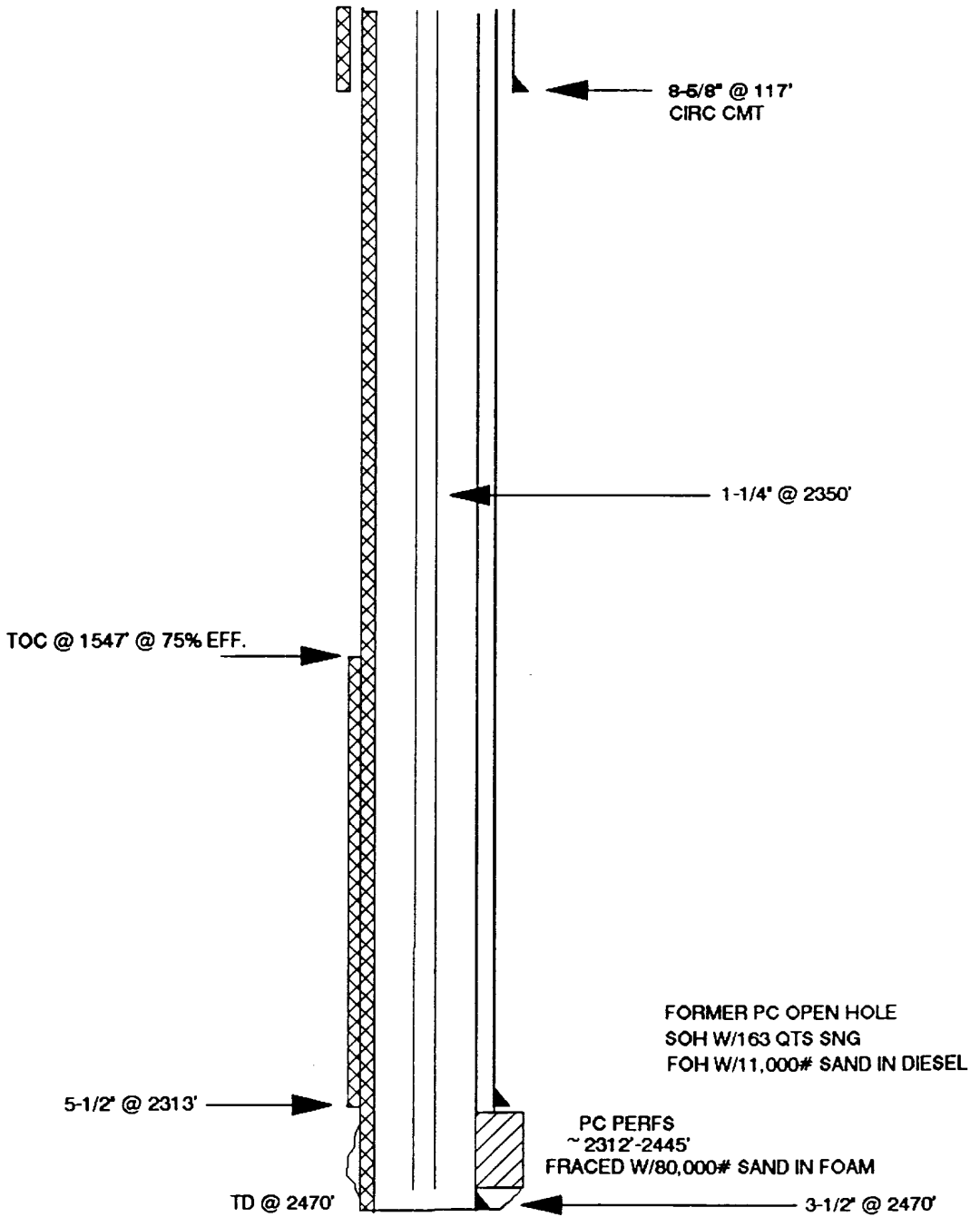
PRESENT



# TURNER HUGHES #1 PC

UNIT M SECTION 3 T27N R9W  
SAN JUAN COUNTY, NEW MEXICO

PROPOSED



HUGHES #10

N 3 27 9

OFFSET TO:

TUNNER HUGHES #1

N 3 27 9

2100

2200

2300

2400

2500

55

OLD  
D

FRUIT

