submitted in lieu of Form 3160-5

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RECEIVED
BLM MAIL ROOM
95 OCT 10 PM 2:56
070 FARMINGTON, NM

Sundry Notices and Reports on Wells

1. **Type of Well**
   GAS

2. **Name of Operator**
   MERIDIAN OIL

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

4. **Location of Well, Footage, Sec., T, R, M**
   595'FNL, 1085'FEL, Sec.11, T-30-N, R-8W, NMPM

5. **Lease Number**
   NM-010468
6. **If Indian, All. or Tribe Name**
7. **Unit Agreement Name**
8. **Well Name & Number**
   Howell Com J #301
9. **API Well No.**
   30-045-26896
10. **Field and Pool**
    Basin Fruitland Coal
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**	
_X_ Notice of Intent	___ Abandonment	___ Change of Plans
	___ Recompletion	___ New Construction
___ Subsequent Report	___ Plugging Back	___ Non-Routine Fracturing
	___ Casing Repair	___ Water Shut off
___ Final Abandonment	___ Altering Casing	___ Conversion to Injection
	_X_ Other - Recavitate	

13. **Describe Proposed or Completed Operations**

It is intended to recavitate the subject well according to the attached procedure and wellbore diagram.

RECEIVED
OCT 16 1995
OIL CON. DIV.
DIST. 3

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

Signed _____ (JCG6) Title Regulatory Administrator Date 10/9/95

(This space for Federal or State Office use)
APPROVED BY _____ Title _____ Date **APPROVED**
CONDITION OF APPROVAL, if any:

OCT 11 1995
DISTRICT MANAGER

GENERAL WELL DATA :

Well Name : Howell Com J #301
Location :Sec 11-T30N-R8W
County, State : San Juan, New Mexico.
Field : Basin Fruitland Coal
Formation : Fruitland Coal
Elevation : 6187' Latitude: 36.830460
AFE # n/a Longitude: 107.638687

GEOLOGY :

Ojo Alamo :	1920'
Kirtland :	2060'
Fruitland Coal Top:	2760'
Liner Top:	**2809'**
Intermediate Casing Pt:	**2886'**
Total Depth :	**3101'**

PERTINENT DATA: See attached Pertinent Data Sheet and Well Bore Diagram

LOGGING: ***Mudlogger:*** Int csg to TD

PROCEDURE :

1. MIRU Cavitation Rig.

2. RU flow lines to casing, record casing & tubing pressures, flow test casing for 1 hr. taking 15 min. pitot readings while rigging up.

3. NU BOP's, & pressure test to 200 psi for 10 mins and 2500 psi for 30 mins using a pup joint screwed into the tubing hanger and the pipe rams.

4. RU blooie lines, and mudlogging operations and collect samples per request. RU pressure recorder on air injection line.

5. Pick up on and remove tubing hanger. POOH and lay down 4-1/2" casing and stand back 2-7/8" tubing. Records show 65 jts. of 4-1/2" casing, x/o, 10 jts of 2-7/8" tubing with an F nipple 1 jt off bottom. See attached tally sheet.

6. If unable to clean fill with production assembly in step #5 TIH w/ 2-7/8" tail pipe on 3-1/2" drill pipe w/ a 4-1/2" bit and clean out to bottom with produced water. TOH

7. TIH w/ 6-1/4" pilot mill, eight 4-3/4" DC's and 3-1/2" DP and mill top slips (approx. 5 feet) on liner hanger (Baker Hyflo) @ 2809', TOH, TIH w/ spear (4.95") and bumper sub, attempt to free liner, if unable TOH, pick up fishing tools (jars, accel, bumper sub, ect.) TIH, spear into liner and begin jarring, continue jarring until jars quit or liner comes free, which ever comes first, TOH, if not free contact office to evaluate situation and determine if well will be sidetracked.

NOTE: When liner is free pull up into 7" with liner and load the hole with water. Monitor for flow. If well does not flow continue TOH while keeping hole full and lay down liner (send liner hanger & casing in for repair). If well flows contact office to evaluate situation. Always pull liner during daylight hours with all nonessential equipment turned off to avoid any possible ignition sources.

8. TIH 6-1/4" bit, 4-3/4" DC's & 3-1/2" DP and clean out to TD with air/mist. TOH and pitot well for a base line gauge.

9. TIH w/ 6-1/4" x 9"-9.5" underreamer (Smith International, Inc.) w/ PDC cutters and underream from 2886' +- to 3101' +- with air/mist. TOH.

10. TIH w/ 6-1/4" bit and DC and clean out hole to TD with air/mist. PU into 7" and pitot test for base line after undereaming. Shut well in and monitor pressure buildup. Watch for well stabilization. This pressure will be our natural BHP.

11. Begin NATURAL SURGES. Shut well in for 1 hr pressure build-up and record pressures in 15 minute increments.

12. When possible obtain 1 hr. flow test once every 24 hr. and record information in WIMS

NOTE:

RECORD THE FOLLOWING INFORMATION IN WIMS:

* **GAUGES OF GAS AND WATER AT 15 MINS, 30 MINS, 45 MINS AND 60 MINS.**
* **SURFACE SHUT IN PRESSURES AT 15 MINS, 30 MINS, 45 MINS AND 60 MINS.**
* **AMOUNT OF FILL TAGGED ON EACH CLEANOUT RUN**
* **CU FT COAL RECOVERED EVERY 24 HR PERIOD**
* **NUMBER OF SURGES PER 24 HOUR PERIOD**

13. During natural pressure build up, if well does not build up to BHP naturally within a reasonable time (one hour or less), pressure up to BHP with air (note: do not use water without first consulting office) and surge well.

14. If well does not cavitate determine the breakover injection pressure. Inject air until the injection pressure stabilizes. This will determine our breakover pressure. Begin air assisted surges at breakover pressure. Do not exceed breakover pressure. Surge well and repeat (at this point, water ahead may be necessary). Continue process until cavitation is initiated.

15. Discontinue air injections if well begins to make heavy coal and coal fines and resume natural BHP surges. If the natural BHP does not build in a reasonable time (one hour or less) air assist to natural BHP, DO NOT exceed natural BHP.

16. Clean out open hole with water sweeps and air as hole dictates. Monitor pressure recorder for pressure increases as signs of hole bridging.

17. **Rotate and reciprocate the pipe at all times during clean out.** Pull into 7" csg for all production tests.

18. When the cavitation operation has reached an optimum point begin circulating w/ air while rotating and reciprocating (R&R) until hole is stabilized, a decision will be made to snub or strip in the liner or to leave open-hole.

19. The liner hanger will be a TIW rebuild and the liner configuration will be determined by coal intervals, gas rates and wellbore stability. (contact office for configuration)

20. LINER RUNNING PROCEDURE

DO NOT TAKE RISKS
EXTINGUISH ALL OPEN FLAMES
OPEN WELL THRU 2" LINES AND MANIFOLD LINES

STRIPPING:

A) Rig up casing crew and change out stripping rubber to 5-1/2". Change out lower rams in upper BOP to 5-1/2". Run 5-1/2" liner through the 5-1/2" stripping rubber.

B) Pick up the liner hanger (steel sleeve), string float, and (1) one joint of 3-1/2" drill pipe. Make up to 5-1/2" casing.

C) When liner hanger clears the upper BOP, close the top set of 3-1/2" pipe rams. Change out stripping rubber to 3-1/2" and run remaining drill pipe.

D) Wash to TD with water (slow rate), set the liner hanger and release the setting tool. DO NOT ROLL THE HOLE WITH WATER. Trip out of the hole.

E) TIH w 2-7/8" tubing as tail pipe with milling assembly on drill pipe. Mill plugs to PBTD.

SNUBBING

A) Lay down drill collars and shut in well.

B) Rig up snubbing unit over blind rams - Test stack with plug.

C) HOLD SAFETY MEETING WITH EVERYONE PRESENT

D) Snub in liner using open TIW valve on each joint. Install liner hanger (hyd set w/ pack off), change over to drill pipe rams - Run drill pipe / liner to the bottom of the 7" casing.

E) Load drill pipe with water - open choke valve. Displace gas w/ water at 4 BPM +/- 1 BPM. Shut in well. Snub in hole to TD and set hanger.

F) Lay down (2) joints of drill pipe - verify no pressure - rig down snubbing unit. Lay down drill pipe. Shut blinds / change rams to fit tubing.

G) TIH w/ 2-7/8" tubing as tail pipe w/ the milling assembly and the drill pipe - Mill plugs to PBTD, POOH laying down drill pipe.

21. TIH w/ production string. Gas and fluid rates will dictate tubing configuration. (contact office for configuration and landing depth)

22. Land string. Nipple down BOP - Nipple up wellhead assembly.

23. Pump off check or plug and take final gauges through tubing (gas, water) at 15 min, 30 min, 45 min, and 60 min. (note: DO NOT surge well when flowing back for gauges). Shut well in - Rig down.

Pertinent Data Sheet - Howell Com J #301

Location: 595' FNL, 1085' FEL, Section 11, T-30-N R-08-W, San Juan County, NM

Field: Basin Fruitland Coal **Elevation**: 6187' GL **TD:** 3101'

GWI: 100%
NRI: 86.75%

Completion Date : 6/15/88 **DP Number:** 3084A

Initial Potential: MCF/D

Casing Record:

Hole Size	Casing Size	Weight & Grade	Depth Set	Cement	Top/Cement
12-1/4"	9-5/8"	36.0# K-55	412'	220 sx	Surface
8-3/4"	7"	20.0# K-55	2886'	520 sx	1207' (TS)

Liner Record:

Hole Size	Casing Size	Weight & Grade	Depth Set	Cement	Top/Cement
6-1/4"	5-1/2"	23.0# P-110	2809'-3101'	None	

Tubing Record:

Tubing Size	Weight & Grade	Depth Set
4-1/2 x 2-7/8	10.5# K-55	3092'
	6.5# J-55	FN @ 3061'

Formation Tops:

Ojo Alamo	1920'	Lewis	
Kirtland	2060'	Cliffhouse	
Fruitland	2760'	Menefee	
Pictured Cliffs		Pt. Lookout	

Logging Record:
GR, Temp. Survey

Stimulation:
Pre - Perf'd liner 2917' - 3098'

Workover History:
1993 : Emergency casing repair. Gas was blowing from cathodic protection well. Hole 597-627; spot 25 sx cmt @ 646'. PT csg 1000#, ok. Snub in hole w/ 10 jts 2-7/8" tbg., x-over 63 jts. 4-1/2" csg.

Production History:

Initial Deliverability:	589	MCFD	BOPD
Latest Deliverability:	1929	MCFD	BOPD

Transporter: EPNG

HOWELL COM J #301

CURRENT

BASIN FRUITLAND COAL

SECTION 11, T30N, R08W, SAN JUAN COUNTY, NM