Form 9-330
(Rev. 5-63)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN DUPLICATE* (See other instructions on reverse side)

Form approved.
Budget Bureau No. 42-R355.5.

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 ☐ DEEP-EN ☐ PLUG BACK ☐ DIFF. RESVR. ☐ Other

2. NAME OF OPERATOR: El Paso Natural Gas Company

3. ADDRESS OF OPERATOR: Box 990, Farmington, New Mexico

4. LOCATION OF WELL (*Report location clearly and in accordance with any State requirements*)*
At surface: 840'N, 1840' E
At top prod. interval reported below
At total depth

5. LEASE DESIGNATION AND SERIAL NO.: NM 010468

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7. UNIT AGREEMENT NAME:

8. FARM OR LEASE NAME: Howell J

9. WELL NO.: 3-X

10. FIELD AND POOL, OR WILDCAT: Blanco Mesa Verde

11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA: Sec. 11, T-30-N, R-8-W N.M.P.M.

14. PERMIT NO. / DATE ISSUED

12. COUNTY OR PARISH: San Juan

13. STATE: New Mexico

15. DATE SPUDDED	16. DATE T.D. REACHED	17. DATE COMPL. (*Ready to prod.*)	18. ELEVATIONS (DF, RKB, RT, GR, ETC.)*	19. ELEV. CASINGHEAD
11-13-66	11-30-66	12-15-66	6170' GL	

20. TOTAL DEPTH, MD & TVD	21. PLUG, BACK T.D., MD & TVD	22. IF MULTIPLE COMPL., HOW MANY*	23. INTERVALS DRILLED BY	ROTARY TOOLS	CABLE TOOLS
5768'	5739'		→	0-5768'	

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)*: 4951-5434 (M.V.)

25. WAS DIRECTIONAL SURVEY MADE: Yes

26. TYPE ELECTRIC AND OTHER LOGS RUN: I-ES, FDC-GR, VIS, Temperature Survey

27. WAS WELL CORED:

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

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
9 5/8"	32.30#	206	13 3/4"	130 sks.	
7"	20#	3457'	8 3/4"	200 sks.	

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DIST. 3

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)
4 1/2"	2454'	5768'	250	

30. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)
2 3/8"	5414'	

31. PERFORATION RECORD (*Interval, size and number*)
4951-55, 4962-66, 4979-83', 4990-94 w/16 SPZ
5344-48', 5422-34' w/16 SPZ

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

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
4951-4994	36,420 gal water, 36,000# sand
5344-5434	34,080 gal water, 34,000# sand

33.* PRODUCTION

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

DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD →	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO
12-15-66	3	3/4"					

FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE →	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-API (CORR.)
SI 889	SI 889			16,114 MCF/D		

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34. DISPOSITION OF GAS (*Sold, used for fuel, vented, etc.*)

TEST WITNESSED BY: D. R. Roberts

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 Original Signed F. H. Wood TITLE Petroleum Engineer DATE December 27, 1966

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

INSTRUCTIONS

General: This form is designed for submitting a complete and correct well completion report and log on all types of lands and leases to either a Federal agency or a State agency, or both, pursuant to applicable Federal and/or State laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office. See instructions on items 22 and 24, and 33, below regarding separate reports for separate completions.
If not filed prior to the time this summary record is submitted, copies of all currently available logs (drillers, geologists, sample and core analysis, all types electric, etc.), formation and pressure tests, and directional surveys, should be attached hereto, to the extent required by applicable Federal and/or State laws and regulations. All attachments should be listed on this form, see item 35.
Item 4: If there are no applicable State requirements, locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local State or Federal office for specific instructions.
Item 18: Indicate which elevation is used as reference (where not otherwise shown) for depth measurements given in other spaces on this form and in any attachments.
Items 22 and 24: If this well is completed for separate production from more than one interval zone (multiple completion), so state in item 22, and in item 24 show the producing interval, or intervals, top(s), bottom(s) and name(s) (if any) for only the interval reported in item 33. Submit a separate report (page) on this form, adequately identified, for each additional interval to be separately produced, showing the additional data pertinent to such interval.
Item 29: *"Sacks Cement":* Attached supplemental records for this well should show the details of any multiple stage cementing and the location of the cementing tool.
Item 33: Submit a separate completion report on this form for each interval to be separately produced. (See instruction for items 22 and 24 above.)

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.

38. GEOLOGIC MARKERS

NAME	TOP MEAS. DEPTH	TOP TRUE VERT. DEPTH
Ojo Alamo	2270	
Kirtland	2520	
Fruitland	2790	
Pictured Cliff	3118	
Cliff House	4877	
Menefee	4996	
Point Lookout	5322	
Mancos	5740	

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Initial Deliverability Test

FORM C-122-A
EL PASO 8-1-65

NEW MEXICO OIL CONSERVATION COMMISSION

GAS WELL TEST DATA SHEET - SAN JUAN BASIN

Pool BLANCO Formation MV County SJ

Well Name HOWELL J #3 X 75475

Unit B S 11 T 30 R 8 Pay Zone 4951 To 5434 Flow String TUBING

Casing O D 4.500 I D 4.052 Set at 5768 Tubing O D 2.375 I D 1.995 L 5414 Top Perf.

Operator EL PASO NATURAL GAS CO Purchasing Pipeline EL PASO NATURAL GAS COMPANY

Pd: % Of Pc	Comm. Designated Pc, psia	Period Of Test Flow		SIP Measured
80		From 03-18-67	To 03-26-67	12-15-66

Deadweight Flowing Pressure, psia

Casing _____ (a) Tubing _____ (b) Meter _____ (c) Flowing Pressure, psia Chart _____ (d)

Deadweight Shut-In Pressures, psia

Casing 889 (j) Tubing 889 (k) Meter Error .0008 (e) Friction Loss 0 (f)

7 Day-Avg. Flowing Pres., psia

Chart 526 (g) Corrected 526 (h) P_t 526 (i) Gravity .675

G. L. = 3654 $1-e^{-s}$ = .233 F_c 9.402 $(F_cQ)^2$ 660.747 (50)

$(1-e^{-s})(F_cQ)^2 = R^2$ = 153954 P_t^2 = 276676 P_c^2 = 430630

$$Q = \frac{2734}{\text{(integrated)}} \times \left[\sqrt{\frac{(c)}{(d)} = 1.0000} = 1.0000\right] = 2734$$

$$D = Q \quad 2734 \times \left[\frac{(P_c^2 - P_d^2)}{(P_c^2 - P_s^2)}\right]^n = \left[\frac{284800}{359691}\right]^n = \frac{(.7917)^n}{.8393} = 2295$$

REMARKS

New Well First Delivered 2-27-67.

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DIST. 3

ok

SUMMARY

P_c = 889

Q = 2734

P_w = 656

P_d = 711

D = 2295

Company EL PASO NATURAL GAS CO

By _____

HOLK KENDRICK, P.E.

Title AREA GAS WELL TEST ENGINEER

Witnessed By _____

Company _____

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TRANSPORTER	OIL	1	
	GAS	1	
OPERATOR			
PRORATION OFFICE			

NEW MEXICO OIL CONSERVATION COMMISSION

REQUEST FOR ALLOWABLE AND AUTHORIZATION TO TRANSPORT OIL AND NATURAL GAS

Form C-104
Supersedes Old C-104 and C-110
Effective 1-1-65

I.

Operator: El Paso Natural Gas Company

Address: PO Box 990, Farmington, NM 87401

Reason(s) for filing *(Check proper box)*

New Well ☐
Recompletion ☐
Change in Ownership ☐
Change in Transporter of: Oil ☐ Dry Gas ☐ Casinghead Gas ☐ Condensate ☐

Other *(Please explain)*: Change name from Howell J #3-X

If change of ownership give name and address of previous owner _____

II. DESCRIPTION OF WELL AND LEASE

Lease Name	Well No.	Pool Name, Including Formation	Kind of Lease	Lease No.
Howell J	5	Blanco Mesa Verde	State, Federal or Fee NM	010468

Location: Unit Letter B ; 840 Feet From The North Line and 1840 Feet From The East

Line of Section 11 Township 30N Range 8W, NMPM, San Juan County

III. DESIGNATION OF TRANSPORTER OF OIL AND NATURAL GAS

Name of Authorized Transporter of Oil ☐ or Condensate ☒	Address *(Give address to which approved copy of this form is to be sent)*
El Paso Natural Gas Company	PO Box 990, Farmington, NM 87401
Name of Authorized Transporter of Casinghead Gas ☐ or Dry Gas ☒	Address *(Give address to which approved copy of this form is to be sent)*
El Paso Natural Gas Company	PO Box 990, Farmington, NM 87401

If well produces oil or liquids, give location of tanks.	Unit	Sec.	Twp.	Rge.	Is gas actually connected?	When
	B	11	30N	8W		

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.

Date Spudded	Date Compl. Ready to Prod.	Total Depth	P.B.T.D.
Elevations *(DF, RKB, RT, GR, etc.)*	Name of Producing Formation	Top Oil/Gas Pay	Tubing Depth
Perforations			Depth Casing Shoe

TUBING, CASING, AND CEMENTING RECORD

HOLE SIZE	CASING & TUBING SIZE	DEPTH SET	SACKS CEMENT

V. TEST DATA AND REQUEST FOR ALLOWABLE *(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)*

OIL WELL

Date First New Oil Run To Tanks	Date of Test	Producing Method *(Flow, Pump, gas lift, etc.)*	
Length of Test	Tubing Pressure	Casing Pressure	Choke Size
Actual Prod. During Test	Oil-Bbls.	Water-Bbls.	Gas-MCF

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GAS WELL

Actual Prod. Test-MCF/D	Length of Test	Bbls. Condensate/MMCF	Gravity of Condensate
Testing Method *(pitot, back pr.)*	Tubing Pressure (Shut-in)	Casing Pressure (Shut-in)	Choke Size

VI. CERTIFICATE OF COMPLIANCE

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

M. G. Bruce
(Signature)

Drilling Clerk
(Title)

June 10, 1974
(Date)

OIL CONSERVATION COMMISSION

APPROVED JUN 11 1974, 19____

BY Original Signed by Emery C. Arnold

TITLE SUPERVISOR DIST. #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 deviation 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