NEW MEXICO OIL CONSERVATION COMMSSION

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122
Revised 9-1-65

Type Test: [X] Initial [ ] Annual [ ] Special				Test Date: 05 16 80	
Company: AMOCO PRODUCTION CO.		Connection: EL PASO NATURAL GAS CO.			
Pool: BASIN		Formation: DAKOTA			Unit
Completion Date: 05 26 80	Total Depth: 6552		Plug Back TD: 6511	Elevation: 6013GL	Farm or Lease Name: EJ JOHNSON C
Csg. Size: 4.500 / Wt.: 10.50	d: 4.052	Set At: 6552	Perforations: From 6238 To 6457		Well No.: 1E
Tbg. Size: 2.375 / Wt.: 4.7	d: 1.995	Set At: 6480	Perforations: From open To ended		Unit C / Sec. 21 / Twp. 27N / Rge. 10W
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: SINGLE			Packer Set At: NONE		County: SAN JUAN
Producing Thru: TUBING	Reservoir Temp. °F: @	Mean Annual Temp. °F	Baro. Press. – P_a		State: NEW MEXICO

L	H	Gg	% CO_2	% N_2	% H_2S	Prover	Meter Run	Taps

	FLOW DATA					TUBING DATA		CASING DATA		
NO.	Prover Line Size	X Orifice Size	Press. p.s.i.g.	Diff. h_w	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.	Temp. °F	Duration of Flow
SI	11 days					1304		1384		3 hrs
1.	2.375	.750				153		654		
2.										
3.										
4.										
5.										

RATE OF FLOW CALCULATIONS

NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P_m	Flow Temp. Factor Ft.	Gravity Factor Fg	Super Compress. Factor, Fpv	Rate of Flow Q, Mcfd
1	12.365		165	1.000	.9258	1.010	1925
2.							
3.							
4.							
5.							

NO.	P_t	Temp. °R	T_r	Z
1.				
2.				
3.				
4.				
5				

Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.
A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.
Specific Gravity Separator Gas _____ XXXXXXXXX
Specific Gravity Flowing Fluid _____ XXXXXXXXX
Critical Pressure _____ P.S.I.A. _____ P.S.I.A.
Critical Temperature _____ R _____ R

P_c 1396 P_c^2 1948816

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1		666	443556	1505260
2				
3				
4				
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.2947$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1.2137$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 2336$

Absolute Open Flow 2336 Mcfd @ 15.025 Angle of Slope θ _____ Slope, n .75

Remarks: _____

Approved By Commission:	Conducted By:	Calculated By:	Checked By:
	JJB	J J BARNETT	R A DOWNEY

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*

5. LEASE DESIGNATION AND SERIAL NO.: SF-077386A

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7. UNIT AGREEMENT NAME:

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

8. FARM OR LEASE NAME: E. J. Johnson "C"

2. NAME OF OPERATOR: Amoco Production Company

9. WELL NO.: 1E

3. ADDRESS OF OPERATOR: 501 Airport Drive Farmington, NM 87401

10. FIELD AND POOL, OR WILDCAT: Basin Dakota

4. LOCATION OF WELL (*Report location clearly and in accordance with any State requirements*)*
At surface 860' FNL X 1820' FWL, Section 21, T27N, R10W
At top prod. interval reported below same
At total depth same

11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA: NE/4, NW/4 Section 21, T27N, R10W

RECEIVED
JUL 7 1980
U. S. GEOLOGICAL SURVEY
FARMINGTON, N. M.

14. PERMIT NO. | DATE ISSUED (Reached to prod.)

12. COUNTY OR PARISH: San Juan | 13. STATE: New Mexico

15. DATE SPUDDED	16. DATE T.D. REACHED	17. DATE COMPL.	18. ELEVATIONS (DF, RKB, RT, GR, ETC.)*	19. ELEV. CASINGHEAD
4-11-80	4-23-80	5-26-80	6013' 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
6552'	6511'		→	0-TD	

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)*
6238-6253', 6278-6284', 6348-6363', 6379-6392', 6435-6457' Dakota

25. WAS DIRECTIONAL SURVEY MADE: No

26. TYPE ELECTRIC AND OTHER LOGS RUN
Induction Electric-Gamma Ray, Compensated Density-Sidewall Neutron-Gamma Ray

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
8-5/8"	24#	305'	12-1/4"	300 sx	--
4-1/2	10.5#	6552'	7-7/8"	1390 sx	--

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)

30. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)
2-3/8"	6480	None

31. PERFORATION RECORD (*Interval, size and number*)
6435-6457' with 2 spf, a total of 44, .38" holes. 6238-6253', 6278-6284', 6348-6363', and 6379-6392' with 2 spf, a total of 98, .38" holes.

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

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
6435-6457	18,000 gal of frac fluid X
	36,000# of 20-40 sand
6238-6392	92,179 gal of frac fluid X
	204,000# of 20-40 sand

33.* PRODUCTION

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

DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD →	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO
6-16-80	3 hours	.75			241		

FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE →	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-API (CORR.)
153 psig	654 psig			1925		

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

TEST WITNESSED BY

35. LIST OF ATTACHMENTS

ACCEPTED FOR RECORD
JUN 1 1980
FARMINGTON DISTRICT
BY

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

SIGNED E. E. Svoboda TITLE Dist. Admn. Supvr. DATE 5-21-80

*(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.
Ojo Alamo	749	947	
Kirtland	947		
Fruitland	1618	1682	
Pictured Cliffs	1777	1862	
Cliff House	3347	3434	
Menefee	3434	4398	
Point Lookout	4398	4474	
Mancos	4474		
Gallup	5327	5698	
Graneros Dakota	6237	6255	
Main Dakota	6341	6392	

38. GEOLOGIC MARKERS

NAME	TOP	
	MEAS. DEPTH	TRUE VERT. DEPTH

U.S. GOVERNMENT PRINTING OFFICE: 1963—O-683636
837-497