

NEW MEXICO OIL CONSERVATION COMMISSION
MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122
 Revised 9-1-65

Type Test ☒ Initial ☐ Annual ☐ Special				Test Date 8-5-80	
Company SUPRON ENERGY CORPORATION				Connection Southern Union Gathering Company	
Pool Basin				Formation Dakota	
Completion Date 7-29-80		Total Depth 8400		Plug Back TD 8357	
Elevation 6901		Farm or Lease Name Payne			
Perforations: From 8224 To 8353		Well No. 4-A			
Perforations: Open-ended From To		Unit Sec. Twp. Rge. P 22 32N 10W			
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Dual - Gas - Gas		Packer Set At 8180		County San Juan	
Producing Thru Tubing		Reservoir Temp. °F @		Mean Annual Temp. °F Baro. Press. - P _a	
State New Mexico					
L 8170		H 0.700		% CO ₂ % N ₂ % H ₂ S Prover Meter Run Taps	

FLOW DATA						TUBING DATA		CASING DATA		Duration of Flow	
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
SI	2"		3/4"				2748				7 days
1.							324	65°			3 hours
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 F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1	12.3650		336	0.9952	0.9258	1.032	3950
2.							
3.							
4.							
5.							

NO.	P _f	Temp. °R	T _f	Z	Gas Liquid Hydrocarbon Ratio	A.P.I. Gravity of Liquid Hydrocarbons	Specific Gravity Separator Gas	Specific Gravity Flowing Fluid	Critical Pressure	Critical Temperature
1.										
2.										
3.										
4.										
5.										

NO.	P _c	P _w	P _c ²	P _w ²	P _c ² - P _w ²	(1) $\frac{P_c^2}{P_c^2 - P_w^2} =$	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n =$
1	2760	7,617,600				1.1586	1.1167
2							
3							
4							
5							

NO.	P _c ²	P _w ²	P _c ² - P _w ²	AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n =$
1			1,042,683	4411
2				
3				
4				
5				

Absolute Open Flow	4411	Mcfd @ 15.025	Angle of Slope θ	Slope, n	0.75
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Remarks:			
Approved By Commission:	Conducted By: Randy Martinez	Calculated By: Kenneth E. Roddy	Checked By:

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN DUPLICATE*

(See other instructions on reverse side)

Form approved.
Budget Bureau No. 42-R355.6.

WELL COMPLETION OR RECOMPLETION REPORT AND LOG*

5. LEASE DESIGNATION AND SERIAL NO.

SF 080517

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Payne

9. WELL NO.

4-A

10. FIELD AND POOL, OR WILDCAT

Blanco Mesaverde

11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA

Sec. 22, T-32N, R-10W
N.M.P.M.

12. COUNTY OR PARISH
San Juan

13. STATE

New Mexico

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

SUPRON ENERGY CORPORATION

3. ADDRESS OF OPERATOR

P.O. Box 808, Farmington, New Mexico 87401

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)*

At surface

1100 ft./S ; 135 ft./E line

At top prod. interval reported below

Same as above

At total depth

Same as above

14. PERMIT NO.

DATE ISSUED

15. DATE SPUDDED

6-8-80

16. DATE T.D. REACHED

6-26-80

17. DATE COMPL. (Ready to prod.)

8-12-80

18. ELEVATIONS (DF, REB, RT, GR, ETC.)*

6901 R.K.B.

19. ELEV. CASINGHEAD

6890

20. TOTAL DEPTH, MD & TVD

8400 MD & TVD

21. PLUG, BACK T.D., MD & TVD

8357 MD & TVD

22. IF MULTIPLE COMPL. HOW MANY*

2

23. INTERVALS DRILLED BY

0 - 8400

ROTARY TOOLS

CABLE TOOLS

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)*

5586 - 6298 Mesaverde MD & TVD

25. WAS DIRECTIONAL SURVEY MADE

No

26. TYPE ELECTRIC AND OTHER LOGS RUN

Induction Electric and Compensated Density

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

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD
10-3/4"	32.75	357	13-3/4"	525 sacks
7-5/8"	26.40	3994	9-7/8"	350 sacks
5-1/2"	15.50	3915 - 8400	6-3/4"	475 sacks

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
5 1/2", 15.50#	3915	8400	475		2-1/16" IJ	6009	8180

31. PERFORATION RECORD (Interval, size and number) 1-0.42" hole at each of the following depths: 5962, 66, 77, 81, 95, 99, 6005, 13, 16, 20, 24, 28, 33, 36, 40, 50, 54, 60, 76, 79, 82, 88, 6108, 20, 24, 32, 65, 69, 73, 89, 91, 94, 6211, 13, 27, 32, 35, 47, 49, 96, 98, Total of 41 holes. UPPER: 5586, 50, 5615, 22, 38, 63, 66, 96, 98, 5706, 24, 31, 35, 46, 49, 52, 99, 5803, 10, 14, 31, 35, 70, 75, 79, 83, 88, 92, 96, 5902, 15, 19, 23, 27, 37. Total of 35 holes.

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

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
5962 - 6298	2000 gal. 15% HCL, 130,000 lb. 20-40 sand @ 1 & 2 lb. per gal.
5586 - 5937	1500 gal. 15% HCL, 105,000 lb. 20-40 sand, & 97,000 gal. 1%

33. PRODUCTION

KCL water.

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

DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO
8-12-80	3	3/4"			348		
FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-API (CORR.)	
221	698			2784			

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

Vented

ACCEPTED FOR RECORD

TEST WITNESSED BY

Randy Martinez

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 Kenneth E. Roddy

TITLE Production

DATE August 13, 1980

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

NMOC

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			38. GEOLOGIC MARKERS			
FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.	NAME	MEAS. DEPTH	TRUE VERT. DEPTH
				Ojo Alamo (Base)	2620	
				Fruitland	3300	
				Pictured Cliffs	3707	
				Cliff House	5574	
				Point Lookout	5988	

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
Supron Energy Corporation

3. ADDRESS OF OPERATOR
P.O. Box 808, Farmington, New Mexico 87401

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)
At surface 1100 Ft./South; 135 Ft./East line

At top prod. interval reported below Same as above

At total depth Same as above

14. PERMIT NO.

RECEIVED
AUG 15 1980
U. S. GEOLOGICAL SURVEY
FARMINGTON, N. M.

5. LEASE DESIGNATION AND SERIAL NO.

SF 080517

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

PAYNE

9. WELL NO.

4-A

10. FIELD AND POOL, OR WILDCAT

Basin Dakota

11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA

Sec. 22, T-32N, R-10W

N.M.P.M.

12. COUNTY OR PARISH

San Juan

13. STATE

New Mexico

15. DATE SPUDDED 6-8-80

16. DATE T.D. REACHED 6-26-80

17. DATE COMPL. (Ready to prod.) 8-12-80

18. ELEVATIONS (DF, REB, RT, GR, ETC.)* 6901 R.K.B.

19. ELEV. CASINGHEAD 6890

20. TOTAL DEPTH, MD & TVD 8400 MD & TVD

21. PLUG, BACK T.D., MD & TVD 8357 MD & TVD

22. IF MULTIPLE COMPL., HOW MANY* 2

23. INTERVALS DRILLED BY

ROTARY TOOLS 0 - 8400

CABLE TOOLS - - -

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)*

8224 - 8353 Dakota MD & TVD

26. TYPE ELECTRIC AND OTHER LOGS RUN

Induction Electric and Compensated Density

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

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD
10-3/4	32.75	557	13-3/4"	525 Sacks
7-5/8"	26.40	3994	9-7/8"	350 Sacks
5-1/2"	15.50	3915 - 8400	6-3/4"	475 Sacks

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)
5-1/2", 15.50#	3915	8400	475	

30. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)
2-1/16" IJ	8180	8180

31. PERFORATION RECORD (Interval, size and number)

1 - 0.42" hole at each of the following depths: 8224, 8225, 8226, 8227, 8228, 8229, 8230, 8231, 8232, 8233, 8277, 8279, 8280, 8294, 8296, 8297, 8309, 8311, 8312, 8321, 8322, 8334, 8335, 8336, 8337, 8352, 8353. Total of 27 holes.

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

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
8224 - 8353	2000 gal. 15% HCL, 105,000 lb. 20-40 sand, and 62,000 gal. of 2% KCL water

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.
8-5-80	3	3/4"			494	
FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-API (CORR.)
324	- - -			3950		

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

Vented

ACCEPTED FOR RECORD

TEST WITNESSED BY

Randy Martinez

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

Kenneth E. Roddy

TITLE

Product Manager, District 9

DATE August 13, 1980

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

NMOCC

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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	MEAS. DEPTH	TRUE VERT. DEPTH
				Ojo Alamo (Base)	2620	
				Fruitland	3300	
				Pictured Cliffs	3707	
				Cliff House	5574	
				Point Lookout	5988	
				Gallup	6655	
				Base Greenhorn	8092	
				Dakota	8175	