

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN DUPLICATE*

See other in-
structions 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 Northwest Exploration Company						5. LEASE DESIGNATION AND SERIAL NO. NM-43758	
3. ADDRESS OF OPERATOR P. O. Box 5800 T. A., Denver, Colorado 80217						6. IF INDIAN, ALLOTTEE OR TRIBE NAME	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)* At surface 930' FNL & 910' FFL At top prod. interval reported below Same At total depth Same Distribution _____						7. UNIT AGREEMENT NAME Gavilan	
14. PERMIT NO. _____ DATE ISSUED 12-4-81						8. FARM OR LEASE NAME #1	
15. DATE SPEDDED 12-26-81						9. WELL NO. #1	
16. DATE PROD. REACHED 01-16-82						10. FIELD AND POOL OR WILDCAT Basin Dakota	
17. DATE COMPL. (Ready to prod.) 3-21-82						11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA Sec 26 T25N R2W	
18. ELEVATIONS (DF, REB, RT, GR, ETC.)* 7467' KB						12. COUNTY OR PARISH Rio Arriba	
19. ELEV. CASINGHEAD 7454' GR						13. STATE New Mexico	
20. TOTAL DEPTH, MD & TVD 8241'		21. PLUG BACK T.D., MD & TVD 8073'		22. IF MULTIPLE COMPL., HOW MANY? 2		23. INTERVALS DRILLED BY 0'-8241'	
24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)* 7880' - 8026' Dakota						25. WAS DIRECTIONAL SURVEY MADE No	
26. TYPE ELECTRIC AND OTHER LOGS RUN DIL, Neutron Density, GR, Sonic, CCL, CBL						27. WAS WELL CORED No	
28. CASING RECORD (Report all strings set in well)							
CASING SIZE		WEIGHT, LB./FT.		DEPTH SET (MD)		HOLE SIZE	
9-5/8"		32.3# H-40 ST&C		540'		13-1/2"	
4-1/2"		11.6# N-80 LT&C		8240'		6-1/4"	
"		10.5# K-55 ST&C		"		"	
29. LINER RECORD		30. TUBING RECORD		on back			
SIZE		TOP (MD)		BOTTOM (MD)		SACKS CEMENT*	
N/A							
31. PERFORATION RECORD (Interval, size and number)		32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.					
7880' - 8026' - 13 holes .4"		DEPTH INTERVAL (MD)		AMOUNT AND KIND OF MATERIAL USED			
7880' 7907' 8008' 8026'		7879' - 8026'		1000 gal 7-1/2% HCl 7000 gal gel			
83' 10' 10'				water w/50,000 lb 40-60 sand.			
86' 8004' 22'				Total fluid: 70,110 gal.			
7903' 06' 24' (continued on back)							
33. PRODUCTION							
DATE FIRST PRODUCTION 3-21-82		PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump) Flowing				WELL STATUS (Producing or shut-in) Shut-in	
DATE OF TEST 3-21-82		HOURS TESTED 24		CHOKE SIZE 32/64		PROD'N. FOR TEST PERIOD 40	
FLOW. TUBING PRESS. 200#		CASING PRESSURE 530#		CALCULATED 24-HOUR RATE 40		OIL—BBL. 141	
						GAS—MCF. 3	
						WATER—BBL. 3525	
						OIL GRAVITY-API (CORR.) 40.0 @ 60°	
34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.) To be sold. NOTE: Production commingled with Gallup zone. Volumes produced						TEST WITNESSED BY ACCEPTED FOR RECORD	
35. LIST OF ATTACHMENTS Logs forwarded under separate cover by logging company.							
36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records							
SIGNED L. O. Van Ryan		DATE JUN 14 1982		TITLE Vice President - Operations		DATE April 6, 1982	
* (See Instructions and Spaces for Additional Data on Reverse Side)						BY [Signature]	

Northwest Exploration

OPERATOR

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.	GEOLOGIC MARKERS		
				38.	NAME	MEAS. DEPTH TRUE VERT. DEPTH
					Ojo Alamo	3252
					Kirtland/Fruitland	3396
					Pictured Cliffs	3520
					Lewis	3594
					Cliff House	5232
					Menefee	5355
					Point Lookout	5662
					Mancos	5980
					Gallup	6780
					Greenhorn	7752
					Graneros	7822
					Dakota	7933
					Morrison	8202
			28. (continued from front)			
			600 sx 65/35 poz w/12% gel & 12-1/2% fine gills/sx.			
			31. (continued from front)			
			8192' - 8202' - Broke down formation			
			1 jspf w/12 bbl CaCl ₂ water.			
			Swab tested. Set retainer @ 8073'. Squeezed perf w/50 sx cement.			

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(See 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 Northwest Exploration Company							
3. ADDRESS OF OPERATOR P. O. Box 5800, Terminal Annex, Denver, Colorado 80217							
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements) At surface 930' FNL & 910' FEL At top prod. interval reported below Same At total depth Same							
14. PERMIT NO. GEOLOGICAL SURVEY U. S. GEOLOGICAL SURVEY FARMINGTON, DATE ISSUED 12-4-81							
5. LEASE DESIGNATION AND SERIAL NO.		NM-43758					
6. IF INDIAN, ALLOTTEE OR TRIBE NAME							
7. UNIT AGREEMENT NAME							
8. FARM OR LEASE NAME		Gavilan					
9. WELL NO.		#1					
10. FIELD AND POOL, OR WILDCAT		Wildcat					
11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA		Sec 26 T25N R2W					
12. COUNTY OR PARISH		13. STATE					
Rio Arriba		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			
12-26-81	1-16-82	3-21-82	7467' KB	7454' GR			
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		
8241'	8073'	2	→	0' - 8241'	-----		
24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)*				25. WAS DIRECTIONAL SURVEY MADE			
6821' - 7562' Gallup				No			
26. TYPE ELECTRIC AND OTHER LOGS RUN				27. WAS WELL CORED			
DIL, Neutron Density, GR, Sonic, CCL, CBL				No			
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"	32.3# H-40 ST&C	540'	13-1/4"	400 sx Cl B w/1/4# gel flake/		No casing	
				sx + 3% CaCl ₂		pulled	
4-1/2"	11.6# N-80 LT&C	8240'	6-1/4"	500 sx 50/50 poz w/2% gel,		7#	
"	10.5# K-55 ST&C	"	"	salt sx 6-1/2# fine gils/sx & (continued		on back)	
29. LINER RECORD				30. TUBING RECORD			
SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
N/A					2-3/8"	8010'	None
31. PERFORATION RECORD (Interval, size and number)				32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.			
6821' - 7562' - 24 holes .4" Ltd. Entry:				DEPTH INTERVAL (MD)			
6821' 6908' 6975' 7058' 7110' 7542'				6821' - 7562'			
51' 14' 7020' 64' 16' 48'				" - "			
60' 20' 29' 98' 61' 54'				" - "			
6902' 45' 52' 7104' 7466' 62'				1000 gal HCl			
				1500 gal 15% HCl			
				40,000 gal gel water w/100,000			
				lb 20-40 sand - Tot. Fluid:			
33. PRODUCTION				105,300 gal.			
DATE FIRST PRODUCTION		PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump)			WELL STATUS (Producing or shut-in)		
3-21-82		Flowing			Shut-In		
DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO
3-21-82	24	32/64	→	62	545	3	8790
FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-API (CORR.)	
200#	530#	→	62	545	3	40.0 @ 60°	
34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.)				TEST WITNESSED BY			
To be sold. NOTE: Production commingled with Dakota zone.							
35. LIST OF ATTACHMENTS							
Logs forwarded under separate cover by logging company.							
36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records.							
SIGNED		TITLE		DATE			
L. O. Van Ryan		Vice President - Operations		April 6, 1982			

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

OPERATOR

MAY 1 1982

FARMINGTON DISTRICT

BY

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FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.	NAME	MEAS. DEPTH	TRUE VERT. DEPTH
			No cores or Drill Stem Tests.	Ojo Alamo		3252
				Kirtland/Fruitland		3396
				Pictured Cliffs		3520
				Lewis		3594
				Cliff House		5232
				Menefee		5355
				Point Lookout		5662
				Mancos		5980
				Gallup		6780
				Greenhorn		7752
				Graneros		7822
				Dakota		7933
				Morrison		8202

28. (continued)
600 sx 65/35 poz w/12% gel & 12-1/2#
fine gils/sx

BEFORE EXAMINER STOGNER
OIL CONSERVATION DIVISION

NORTHWEST EXHIBIT NO. 2

CASE NO. 8042