

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN DUPLICATE

(See instructions on reverse side)

CONFIDENTIAL FORM APPROVED

SF

WELL COMPLETION OR RECOMPLETION REPORT

1a. TYPE OF WELL: OIL WELL ☐ GAS WELL ☒ DRY ☐		1b. TYPE OF COMPLETION: NEW WELL ☒ WORK OVER ☐ DEEP-EN ☐ PLUG BACK ☐ DIFF. RESVR ☐ Other ☐		5. LEASE DESIGNATION AND SERIAL NO. NM-NM90514	
2. NAME OF OPERATOR SNOW OIL & GAS, INC.		3. ADDRESS AND TELEPHONE NO. POST OFFICE BOX 1277, ANDREWS, TEXAS 79714 (915) 524-2371		6. IF INDIAN, ALLOTTEE OR TRIBE NAME 811 S. 1st Street Artesia, NM 88210-2824	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)* At surface 660' FSL & 1650' FWL, Unit N, Section 4, T24S, R26E At top prod. interval reported below (same) At total depth (same)		14. PERMIT NO.		12. COUNTY OR PARISH Eddy	
15. DATE SPUDDED 8/23/2000		16. DATE T.D. REACHED 9/27/2000		13. STATE New Mexico	
17. DATE COMPL. (Ready to prod.) 10/30/2000		18. ELEVATIONS (DF, RKB, RT, GR, ETC.)* GL 3439', DF 3455', KB 3456'		19. ELEV. CASINGHEAD	
20. TOTAL DEPTH, MD & TVD 12,070'		21. PLUG, BACK T.D., MD & TVD 11,705'		22. IF MULTIPLE COMPL., HOW MANY* N/A	
23. INTERVALS DRILLED BY →		24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)* Morrow 11,386-11,400'		25. WAS DIRECTIONAL SURVEY MADE No	
26. TYPE ELECTRIC AND OTHER LOGS RUN Platform Express Azimuthal Laterlog Micro-CFL/NGT, Three Detector Litho-Density/ Compensated Neutron/NGT, CBL		27. WAS WELL CORED No			
28. CASING RECORD (Report all strings set in well)					
CASING SIZE/GRADE		WEIGHT, LB./FT.		DEPTH SET (MD)	
13 3/8" H-40		48#		495'	
9 5/8" N-80		40#		5403'	
4 1/2" P-110 & N-80 both 11.6#		12,069'		8 3/4"	
29. LINER RECORD		30. TUBING RECORD			
SIZE		TOP (MD)		BOTTOM (MD)	
31. PERFORATION RECORD (Interval, size and number)		32. ACID SHOT, FRACTURE, CEMENT SQUEEZE, ETC.			
Morrow 11,386-11,400' with 29 holes (0.3" EHD) 3 1/2" Alpha 10k CIBP at 11,740' + 35' cement on top Morrow at 11,185-11,828' with 52 holes (0.3" EHD)		DEPTH INTERVAL (MD)		AMOUNT AND KIND OF MATERIAL USED	
		11,386-11,400'		No treatment	
		11,185-11,828'		1000 gals 7 1/2% HCl + 20,770 scf N2 + 80 BS	
33.* PRODUCTION					
DATE FIRST PRODUCTION 1/30/01		PRODUCTIONS METHOD 1 (Flowing, gas lift, pumping—size and type of pump) flowing		WELL STATUS (Producing or shut-in) producing	
DATE OF TEST 10/31/00		HOURS TESTED 4 hrs		CHOKE SIZE 17/64"	
PROD'N FOR TEST PERIOD →		OIL-BBL. 0		GAS-MCF. 3177	
WATER-BBL. 0		GAS-OIL RATIO N/A			
FLOW. TUBING PRESS. 1880 psi		CASING PRESSURE		CALCULATED 24-HOUR RATE →	
OIL-BBL. 0		GAS-MCF. 4706		WATER-BBL. 0	
34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.) sold		35. LIST OF ATTACHMENTS Logs, deviation survey report, form C-122		36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records.	
SIGNED <i>David F. Glass</i>		TITLE Vice-President		DATE February 21, 2001	

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

CONFIDENTIAL

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			DESCRIPTION, CONTENTS, ETC.		
	TOP	BOTTOM			
Morrow	11,384'	11,400'	Gas sand		
		DEPTH	ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC., (continued from the front)		

38. GEOLOGIC MARKERS		
NAME	TOP	
	MEAS. DEPTH	TRUE VERT. DEPTH
Delaware	1794'	
Bone Spring	5364'	
3rd Bone Spring	8123'	
Wolfcamp	8911'	
Upper Penn	10,308'	
Strawn	10,657'	
Atoka	10,871'	
Lower Morrow	11,881'	

BLM
ROOSEVELT, NM

CONFIDENTIAL



PATTERSON DRILLING COMPANY LP

A LIMITED PARTNERSHIP

410 North Loraine Street • Midland, Texas 79701

(915) 682-9401 • Fax (915) 682-1565

October 12, 2000

Snow Oil and Gas
20 N. Broadway, Ste. 1500
Oklahoma City, OK 73102-8260

Re: Deviation Report
Elbow Canyon 4 Fed #1

Gentlemen:

The following is a deviation survey on the above-referenced well located in Eddy County, New Mexico.

105' - 0.50	1545' - 1.25	5683' - 1.25	9819' - 1.75
226' - 0.50	1893' - 1.25	6160' - 1.50	10091' - 1.00
315' - 0.75	2210' - 1.25	6478' - 0.50	10360' - 2.00
447' - 1.25	2526' - 1.00	6955' - 1.00	10646' - 2.50
693' - 2.75	2811' - 1.50	7434' - 0.25	10837' - 2.25
756' - 3.75	3190' - 2.00	7912' - 1.25	11028' - 1.75
851' - 2.75	3569' - 0.75	8388' - 1.50	11219' - 1.25
977' - 2.50	4013' - 0.75	8737' - 1.00	11694' - 2.50
1198' - 1.25	4456' - 0.75	9088' - 1.25	11917' - 2.50
1323' - 0.75	4835' - 0.75	9343' - 1.25	12070' - 2.50
1449' - 1.25	5248' - 0.75	9565' - 0.75	

Sincerely,

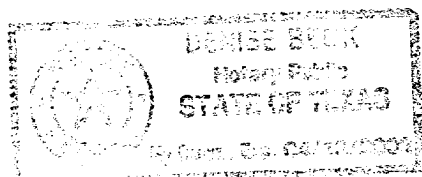
Treva Forrester

STATE OF TEXAS)
)
COUNTY OF MIDLAND)

The foregoing was acknowledged before me this 8th day of February, 2001 by Treva Forrester.

MY COMMISSION EXPIRES:

NOTARY PUBLIC



Submit in duplicate to
appropriate district office.
See Rule 401 & Rule 1122

State of New Mexico
Energy Minerals and Natural Resources
Oil Conservation Division
2040 South Pacheco
Santa Fe, NM 87505

CONFIDENTIAL

Form C-122
Revised October, 1999

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Operator SNOW OIL & GAS				Lease or Unit Name ELBOW CANYON "4" FED			
Type Test ☒ Initial ☐ Annual ☐ Special						Test Date 10/31/00	Well No. 1
Completion Date		Total Depth 12070		Plug Back TD 11704		Elevation	Unit Ltr - Sec - TWP - Rge 4 24S 26E
Csg. Size 4 1/2	Wt. 11.6	d 4	Set At 12070	Perforations: From: 11386 To: 11400		County EDDY	
Tbg. Size 2 3/8	Wt. 4.7	d 1.995	Set At 11267	Perforations: From: To:		Pool	
Type Well-Single-Bradenhead-G.G. or G.O. Multiple SINGLE				Packer Set At 11270		Formation MORROW	
Producing Thru TUBING		Reservoir Temp. °F 186.7	Mean Annual Temp. °F 60	Baro. Press. -P _a 13.2		Connection AIR	
L 11270	H 11270	Gg 0.577	%CO ₂ 0.841	%N ₂ 0.682	%H ₂ S N/A	Prover N/A	Meter Run 4.026
FLOW DATA				TUBING DATA		CASING DATA	
No.	Prover Line Size	Orifice x Size	Press p.s.i.g.	Diff. h _w	Temp. °F	Press p.s.i.g.	Temp. °F
SI						2980	N/A
1	4.026 X 1.750		260	12	88	2780	
2	4.026 X 1.750		260	24	86	2630	
3	4.026 X 1.750		260	48	76	2340	
4	4.026 X 1.750		260	92	76	1880	
5							
RATE OF FLOW CALCULATIONS							
No.	COEFFICIENT (24 Hour)		$\sqrt{h_w P_r}$	Pressure P _m	Flow Temp. Factor Ft.	Gravity Factor F _g	Super Compress Factor F _{pv}
1	14.93		57.2	273.2	0.9741	1.316	1.033
2	14.93		80.9	273.2	0.9759	1.316	1.034
3	14.93		114.5	273.2	0.985	1.316	1.036
4	14.93		158.5	273.2	0.985	1.316	1.036
5							
No.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio N/A Mcf/bbl.		
1	0.81	548	1.6	0.937	A.P. I. Gravity of Liquid Hydrocarbons N/A Deg.		
2	0.8	546	1.59	0.936	Specific Gravity Separator Gas 0.577 XXXXXX		
3	0.79	536	1.56	0.932	Specific Gravity Flowing Fluid N/A XXXXXX		
4	0.79	536	1.56	0.932	Critical Pressure 675 P.S.I.A. P.S.I.A.		
5					Critical Temperature 342 R R		
P _c 2993.2 P _{c2} 8959.2							
No.	P _t ²	P _w	P _w ²	P _c ² - P _w ²	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = \frac{1.774}{1.481}$		
1	7802	2800.7	7844	1115.2			
2	6986.5	2659.6	7073.4	1885.8			
3	5537.6	2389.2	5708.1	3251.2			
4	3584.2	1977.3	3909.8	5049.4			
5							
Absolute Open Flow 4.706				Mcf/d @ 15.025	Angle of Slope (°) 55.5	Slope n: 0.6851	
Remarks: * NO LIQUID MADE DURING TEST.							
Approved By Division:		Conducted By: PRO WELL TESTING		Calculated By: MB		Checked By: BM	

CONFIDENTIAL

