

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

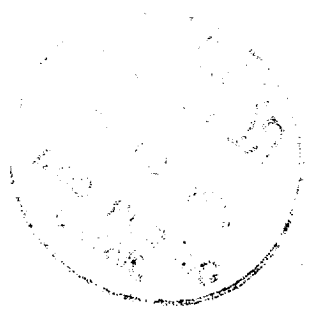
SUBMIT IN DUPLICATE*

(See other in-
structions on
reverse side)Form approved.
Budget Bureau No. 42-R355.5.

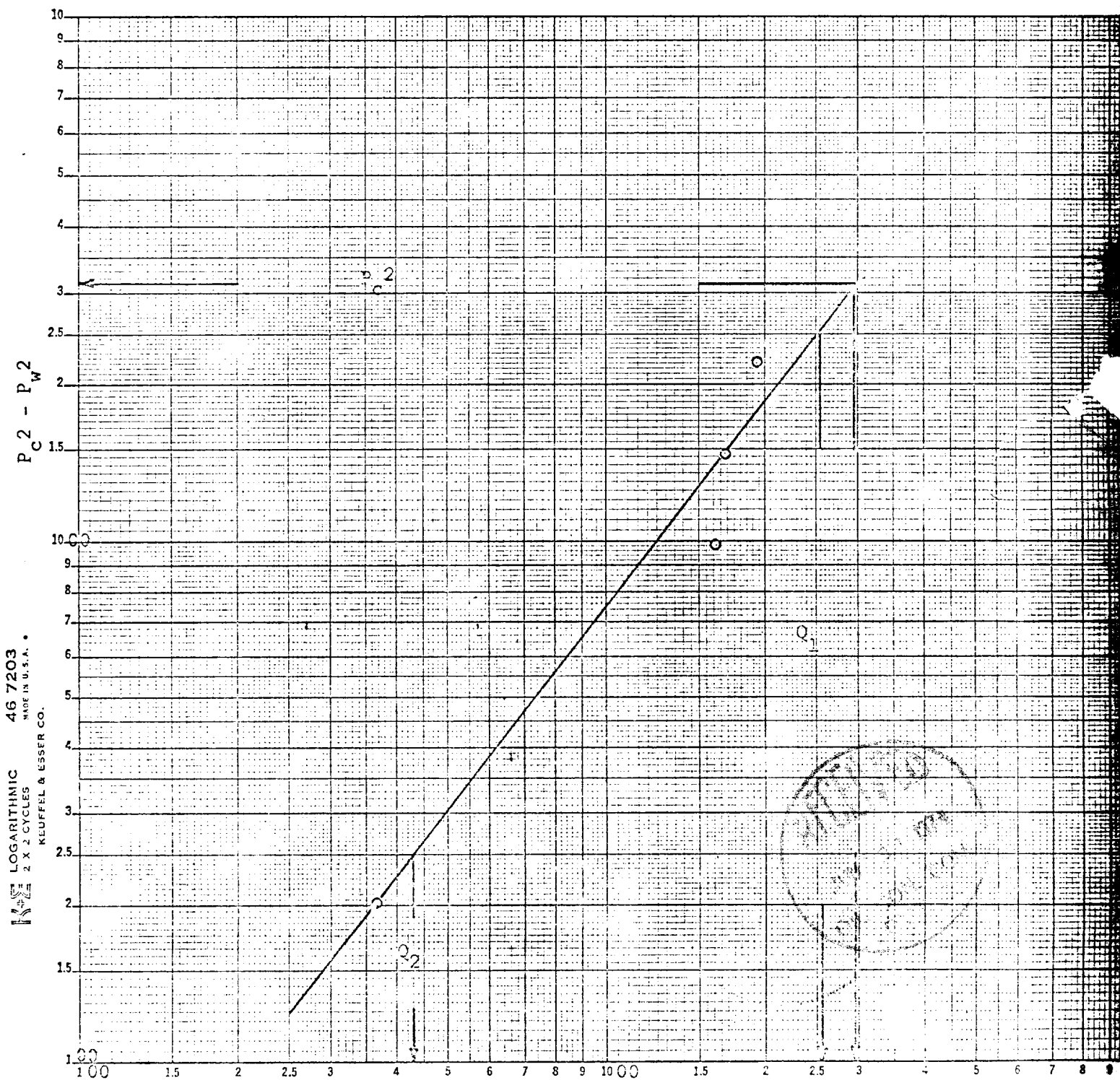
WELL COMPLETION OR RECOMPLETION REPORT AND LOG *

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 JOHN E. SCHALK							
3. ADDRESS OF OPERATOR P. O. BOX 2078, FARMINGTON, NEW MEXICO 87401							
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)* At surface 960' FROM THE NORTH LINE, 800' FROM THE EAST LINE At top prod. interval reported below SAME At total depth SAME							
14. PERMIT NO.				DATE ISSUED			
15. DATE SPUDDED		16. DATE T.D. REACHED		17. DATE COMPL. (Ready to prod.)		18. ELEVATIONS (DF, REB, RT, GR, ETC.)*	
8-2-73		9-2-73		9-6-73		6781' GR	
20. TOTAL DEPTH, MD & TVD		21. PLUG, BACK T.D., MD & TVD		22. IF MULTIPLE COMPL., HOW MANY*		23. INTERVALS DRILLED BY	
8446'						ROTARY TOOLS ROTARY	
24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)*							25. WAS DIRECTIONAL SURVEY MADE
8219 - 8344 DAKOTA							NO
26. TYPE ELECTRIC AND OTHER LOGS RUN EDC, CNL, FD DIL							27. WAS WELL CORRED NO
28. CASING RECORD (Report all strings set in well)							
CASING SIZE		WEIGHT, LB./FT.		DEPTH SET (MD)		HOLE SIZE	
13-3/8"		48#		373' KB		17-1/4"	
4-1/2"		11.6# 10.5#		8446' KB		7-7/8"	
						350 SACKS CLASS "A"	
						1ST STAGE - 320 SACKS	
						2ND STAGE - 200 SACKS	
						3RD STAGE - 650 SACKS	
29. LINER RECORD							
SIZE		TOP (MD)		BOTTOM (MD)		SACKS CEMENT*	
NONE						SCREEN (MD)	
30. TUBING RECORD							
SIZE		DEPTH SET (MD)		PACKER SET (MD)			
2-3/8"		8428.41'					
31. PERFORATION RECORD (Interval, size and number)							
8219' - 8223'				8334' - 8344'			
8229' - 8238'							
8261' - 8273'				2 - SHOTS PER FOOT			
8314' - 8324'							
32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.							
DEPTH INTERVAL (MD)				AMOUNT AND KIND OF MATERIAL USED			
8219' - 8344'				LO-GEL SAND FRAC			
				SAND 40,000			
				GEL & WATER 39,000			
33. PRODUCTION							
DATE FIRST PRODUCTION		PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump)				WELL STATUS (Producing or shut-in)	
-----		WAITING ON PIPELINE				SHUT-IN	
DATE OF TEST		HOURS TESTED		CHOKE SIZE		PROD'N. FOR TEST PERIOD	
1-24-74		4		5/16		OIL—BBL. GAS—MCF. WATER—BBL. GAS-OIL RATIO	
FLOW. TUBING PRESS.		CASING PRESSURE		CALCULATED 24-HOUR RATE		OIL—BBL. GAS—MCF. WATER—BBL. OIL GRAVITY-API (CORR.)	
843		930		2901 AOF			
34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.)							TEST WITNESSED BY
VENTED							JOE ROBERSON
35. LIST OF ATTACHMENTS SEPERATOR & VENT LINE							
36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records							
SIGNED		TITLE		AGENT		DATE	
[Signature]						6-17-74	

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



OPERATOR Lone Star Industries, Inc.
 LEASE Schalk '94'
 WELL NO. 1
 FIELD Wildcat
 COUNTY San Juan, New Mexico
 DATE January 24, 1974



Q in Mcf/Day	$Q_1 = 2550$	$\log Q_1 = 3.40654$
$\theta = 53^\circ 22'$	$Q_2 = 460$	$\log Q_2 = 2.66276$
$n = .744$		<u>.74378</u>

Absolute Open Flow = 2901 Mcf/Day



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 1-24-74	
Company Lone Star Industries, Inc.		Connection None	
Pool Wildcat		Formation Gallup	
Completion Date 9-16-73		Total Depth 8347	Plug Back TD
Casing Size 4 1/2		Well No. 1	Elevation 6781
Perforations: From 8224 To 8334		Farm or Lease Name Schalk '94'	
Perforations: From To		Unit Sec. Twp. Rge. 26 32-N 8-W	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single		Packer Set At None	
Producing Thru Tubing 244 @ 8279		Baro. Press. - P _a 12.0	
Reservoir Temp. *F 244 @ 8279		Mean Annual Temp. *F 60	
County San Juan		State New Mexico	
G _g 8279		Prover	
H 8279		Meter Run	
G _g .640		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	
1	2.0		3/32	1692		42	1750	42	1750	42	7 Hr
2	2.0		7/32	1295		48	1692	48	1692	48	1 Hr
3	2.0		1/4	1095		58	1295	58	1440	58	1 Hr
4	2.0		5/16	843		62	1095	62	1260	62	1 Hr
5						64	843	64	930	64	1 Hr

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, Mscf
1	.1410		1704	1.012	1.250	1.194	363
2	.8393		1307	1.002	1.250	1.146	1606
3	1.087		1107	.9981	1.250	1.118	1678
4	1.672		855	.9962	1.250	1.087	1935

NO.	P _r	Temp. *R	T _r	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	2.54	508	1.37	.702	None Produced		.640		670	372
2	1.95	518	1.39	.762						
3	1.65	522	1.40	.800						
4	1.26	524	1.41	.847						

NO.	P _r	P _w	P _w ²	P _r ² - P _w ²
1	1762	3105		
1		1704	2904	201
2		1452	2108	997
3		1272	1618	1487
4		942	887	2218

(1) $\frac{P_r^2}{P_r^2 - P_w^2} = \frac{3105}{1487}$

(2) $\left[\frac{P_r^2}{P_r^2 - P_w^2} \right]^n = 1.72912$

AOF = Q $\left[\frac{P_r^2}{P_r^2 - P_w^2} \right]^n = 2901$

WEST TEXAS CONSULTING SERVICE, INC.

Absolute Open Flow 2901		Mscf @ 15.025	Angle of Slope @ 53° 22'	Slope, n .744
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Approved By Don Douglas & Joe Roberson	Conducted By H L Hagler	Checked By
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WEST TEXAS CONSULTING SERVICE, INC.

