

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

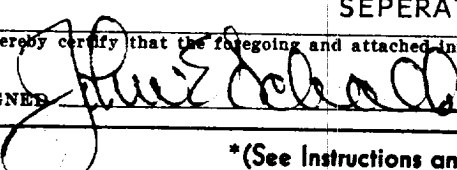
SUBMIT IN DUPLICATE*

(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. REVR. ☐ Other _____
2. NAME OF OPERATOR					
LONE STAR INDUSTRIES, INC.					
3. ADDRESS OF OPERATOR					
%JOHN E. SCHALK, P. O. BOX 2078, FARMINGTON, N.M.					
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)*					
At surface 2418' FROM THE NORTH LINE, 858' FROM THE WEST LINE At top prod. interval reported below SAME At total depth SAME					
14. PERMIT NO.		DATE ISSUED			
2724		11-16-73			
5. LEASE DESIGNATION AND SERIAL NO.		6. IF INDIAN, ALLOTTEE OR TRIBE NAME			
NM - 4452		-----			
7. UNIT AGREEMENT NAME					

8. FARM OR LEASE NAME					
SCHALK 52					
9. WELL NO.					
3					
10. FIELD AND POOL, OR WILDCAT					
PICTURED CLIFFS					
11. SEC., T., R., N., OR BLOCK AND SURVEY OR AREA					
SEC. 24, T-29N, R-5W					
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
12-04-73	12-10-73	12-16-73	6492' GR		6492'
20. TOTAL DEPTH, MD & TVD		21. PLUG, BACK T.D., MD & TVD	22. IF MULTIPLE COMPL., HOW MANY*	23. INTERVALS DRILLED BY	24. ROTARY TOOLS
3630'				ROTARY	CABLE TOOLS
24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)*					25. WAS DIRECTIONAL SURVEY MADE
3428' - 3500' PICTURED CLIFF					NO
26. TYPE ELECTRIC AND OTHER LOGS RUN					27. WAS WELL CORED
COMPENSATED FORMATION DENSITY LOG COMPENSATED NEUTRON FORMATION DENSITY LOG, GAMMA RAY LOG					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"	32#	177' KB	12-1/4"	175 SACKS CLASS "A"	NONE
5-1/2"	15.5#	3634' KB	7-7/8"	258 SACKS HALLIBURTON LIGHTWEIGHT & 50/50 POSMIX	NONE
29. LINER RECORD					
SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	30. TUBING RECORD
NONE					SIZE DEPTH SET (MD) PACKER SET (MD)
					2-3/8" 3491'
31. PERFORATION RECORD (Interval, size and number)			32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.		
3428' - 3440'			DEPTH INTERVAL (MD)		
3446' - 3500'			AMOUNT AND KIND OF MATERIAL USED		
1 SHOT PER FOOT			3428' - 3500'		
			75,000# SAND AND		
			80,600 GALLONS WATER		
33.* PRODUCTION					
DATE FIRST PRODUCTION		PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump)			WELL STATUS (Producing or shut-in)
-----		WAITING ON PIPE LINE			SHUT-IN
DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD	OIL—BBL.	GAS—MCF.
1-19-74	4	5/16			
WATER—BBL.	GAS-OIL RATIO				
FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL—BBL.	GAS—MCF.	WATER—BBL.
1042	1072			10327 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 6-17-74

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



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 1-19-74	
Company Lone Star Industries, Inc.			Connection None		
Well Wildcat			Formation Picture Cliff		Unit
Completion Date		Total Depth	Plug Back TD	Elevation	Form or Lease Name Schalk '52'
Case Size 5 1/2	Set At 3634	Perforations: From 3422 To 3494		Well No. 3	
Case Size 2 3/8 EUE	Set At 3491	Perforations: From To		Unit Sec. Twp. Rge.	
Type Well - Single - Bradenhead - G.O. or G.O. Multiple Single			Packer Set At None		County San Juan
Producing Thru Tubing		Reservoir Temp. °F 132 @ 3458	Mean Annual Temp. °F 60	Baro. Press. - P _a 12	State New Mexico
L 3458	H 3458	G _g .610	% CO ₂	% N ₂	% H ₂ S
			Prover X	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	
5.				1167		40	1167	40	1167	40	72
1.	2.0		3/32	1158		54	1158	54	1159	54	1 Hr
2.	2.0		7/32	1117		58	1117	58	1127	58	1 Hr
3.	2.0		1/4	1094		58	1094	58	1112	58	1 Hr
4.	2.0		5/16	1042		62	1042	62	1072	62	1 Hr
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 _{sp}	Rate of Flow Q, Mscf
1.	.1410		1170	1.005	1.280	1.117	237
2.	.8393		1129	1.002	1.280	1.110	1349
3.	1.087		1206	1.002	1.280	1.117	1878
4.	1.672		1054	.9981	1.280	1.098	2472
5.							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	None Produced	Mcf/Std.
1.	1.74	514	1.42	.801	A.P.I. Gravity of Liquid Hydrocarbons		Deg.
2.	1.68	518	1.43	.812	Specific Gravity Separator Gas	.610	XXXXXXXXXX
3.	1.80	518	1.43	.802	Specific Gravity Flowing Fluid	XXXXXX	
4.	1.57	522	1.44	.829	Critical Pressure	671	P.S.I.A.
5.					Critical Temperature	362	R

NO.	P _r	P _w	P _w ²	P _r ² - P _w ²
1.	1171	1371	19	
2.	1139	1297	93	
3.	1124	1263	127	
4.	1084	1175	215	
5.				

(1) $\frac{P_r^2}{P_r^2 - P_w^2} = \frac{1390}{127}$ (2) $\left[\frac{P_r^2}{P_r^2 - P_w^2} \right]^n = 5.49872$

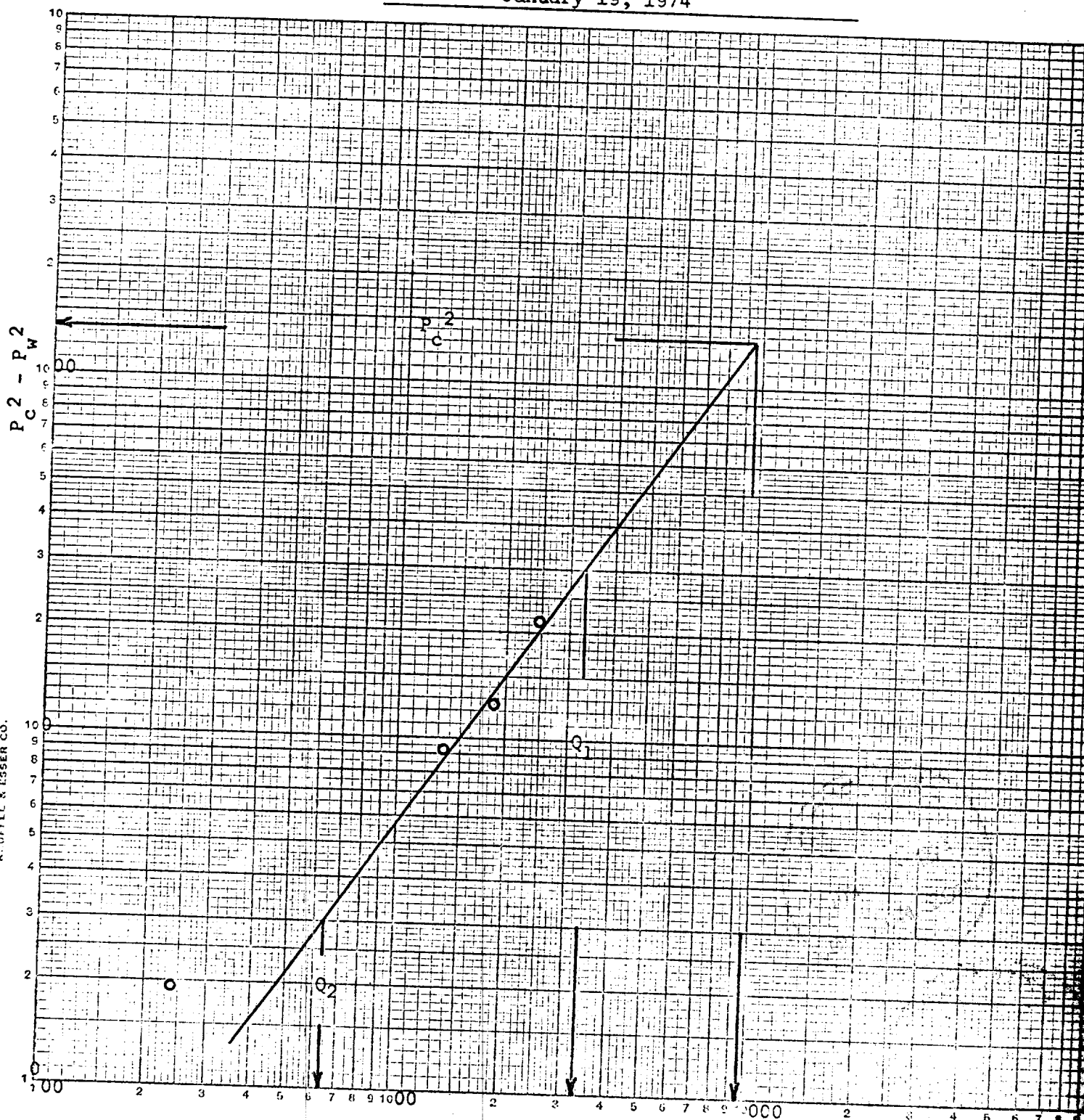
AOF = 0 $\left[\frac{P_r^2}{P_r^2 - P_w^2} \right]^n = 10327$

Interpolated AOF from Curve	10327*	Weld @ 15.025	Angle of Slope	54° 32'	Slope, n	.712
-----------------------------	--------	---------------	----------------	---------	----------	------

*NOTE: The calculated AOF does not correspond to the AOF as drawn on the curve because the curve does not pass directly through any point.

Approved By: Don Douglas & J F Roberson	Calculated By: H L Hagler	Checked By:
WEST TEXAS CONSULTING SERVICE, INC.		

OPERATOR Lone Star Industries, Inc.
 LEASE Schalk '52'
 WELL NO. 3
 FIELD Wildcat
 COUNTY San Juan, New Mexico
 DATE January 19, 1974



Q in Mcf/Day
 $\theta = 54^\circ 32'$
 $n = .712$

Absolute Open Flow = 10,327 Mcf/Day

