

Form approved.
Budget Bureau No. 42-R855.5.

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 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 1190' FROM THE WEST LINE, 1055' FROM THE SOUTH LINE At top prod. interval reported below SAME At total depth SAME															
14. PERMIT NO. _____ DATE ISSUED _____															
7. UNIT AGREEMENT NAME _____															
8. FARM OR LEASE NAME SCHALK 63															
9. WELL NO. 1															
10. FIELD AND POOL, OR WILDCAT BASIN DAKOTA															
11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA SEC. 34, T-32N, R-5W															
12. COUNTY OR PARISH RIO ARriba															
13. STATE NEW MEXICO															
15. DATE SPUDDED 3-31-73		16. DATE T.D. REACHED 6-12-73		17. DATE COMPL. (Ready to prod.) 6-28-73		18. ELEVATIONS (DF, REB, RT, GR, ETC.)* 6228.0' GR		19. ELEV. CASINGHEAD 6228'							
20. TOTAL DEPTH, MD & TVD 8046'		21. PLUG, BACK T.D., MD & TVD		22. IF MULTIPLE COMPL., HOW MANY*		23. INTERVALS DRILLED BY ROTARY		ROTARY TOOLS		CABLE TOOLS					
24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)* 7770' - 7894' DAKOTA															
25. WAS DIRECTIONAL SURVEY MADE NO															
26. TYPE ELECTRIC AND OTHER LOGS RUN DIL, FD, CNL, SCM, 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		CEMENTING RECORD				AMOUNT PULLED			
13-3/8"		48#		313KB		17-1/4"		330 SACKS CLASS "A"				NONE			
4-1/2"		11.6# 10.5#		8046KB		7-7/8"		1ST STAGE 150 SACKS				NONE			
								2ND STAGE 150 SACKS							
								3RD STAGE 300 SACKS							
29. LINER RECORD															
SIZE		TOP (MD)		BOTTOM (MD)		SACKS CEMENT*		SCREEN (MD)							
NONE															
30. TUBING RECORD															
SIZE		DEPTH SET (MD)		PACKER SET (MD)											
2-3/8"		7920'													
31. PERFORATION RECORD (Interval, size and number)															
7770' - 7782'		7840' - 7854'													
7826' - 7832'		7886' - 7894'													
7860' - 7870'		2 SHOTS PER FOOT													
7810' - 7814'		EACH													
32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.															
DEPTH INTERVAL (MD)		AMOUNT AND KIND OF MATERIAL USED													
7770' - 7854'		60,000 GALLON WATER													
		& 40,000 # SAND													
33. PRODUCTION															
DATE FIRST PRODUCTION		PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump) WAITING ON PIPE LINE								WELL STATUS (Producing or shut-in) SHUT-IN					
DATE OF TEST 1-25-74		HOURS TESTED 4		CHOKE SIZE 5/16		PROD'N. FOR TEST PERIOD		OIL—BBL.		GAS—MCF.		WATER—BBL.		GAS/OIL RATIO	
FLOW. TUBING PRESS. 925		CASING PRESSURE 1495		CALCULATED 24-HOUR RATE		OIL—BBL.		GAS—MCF. 2313 AOF		WATER—BBL.		OIL GRAVITY-API (CORR.)			
34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.) VENTED															
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															
SIGNATURE [Signature]		TITLE		AGENT		DATE		JUNE 17, 1974							

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



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

Form C-122
Revised 9-1-68

Type Test: ☒ Initial ☐ Annual ☐ Special						Test Date: 1-25-74	
Company: Lone Star Industries, Inc.				Connection: None			
Pool:				Formation:		Unit:	
Completion Date:		Total Depth:		Plug Back TD:		Elevation:	
Farm or Lease Name: Schalk '63'							
Csg. Size:		Wt.:		Set At:		Perforations: From To	
Tub. Size:		Wt.:		Set At:		Perforations: From To	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple						Packer Set At:	
County: Rio Arriba						State: New Mexico	
Pressuring Thru:		Reservoir Temp. °F: 184 @		Mean Annual Temp. °F: 60		Baro. Press. - P _a : 12.0	
L		H		Gg		Prover	
		.590		% CO ₂		% N ₂	
				% H ₂ S		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						42	2550	42	2605	42	78
1.	2.0		3/32	1775		48	1775	48	2492	48	1 Hr
2.	2.0		7/32	1167		67	1167	67	2110	67	1 Hr
3.	2.0		1/4	1000		74	1000	74	1815	74	1 Hr
4.	2.0		5/16	725		80	725	80	1495	80	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 Fg	Super Compress. Factor, Fpv	Rate of Flow Q, Mscf
1	.1410		1787	1.012	1.250	1.156	368
2	.8393		1179	.9933	1.250	1.094	1344
3	1.087		1012	.9868	1.250	1.078	1463
4	1.672		737	.9813	1.250	1.054	1593
5							

NO.					Gas Liquid Hydrocarbon Ratio: None Produced			Mcf/bbl.	
					A.P.I. Gravity of Liquid Hydrocarbons			Deg.	
1					Specific Gravity Separator Gas: .590			XXXXXXXXXX	
2					Specific Gravity Flowing Fluid: XXXXX				
3					Critical Pressure: 672			P.S.I.A.	
4					Critical Temperature: 354			R	
5									

P _c 2617 P _c ² 6849				(1) $\frac{P_c^2}{P_c^2 - P_w^2} = \frac{6849}{3709}$		(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.58030$	
NO.	P _w	P _w ²	P _w ² - P _c ²				
1	2504	6270	579				
2	2062	4252	2597				
3	1772	3140	3709				
4	1442	2079	4770				
5							

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 2312$

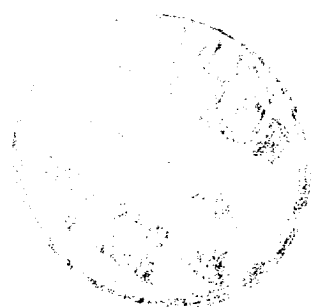
Absolute Open Flow: 2312 Mscf @ 15.025 Angle of Slope @ 53° 16' Slope: .746

RECEIVED

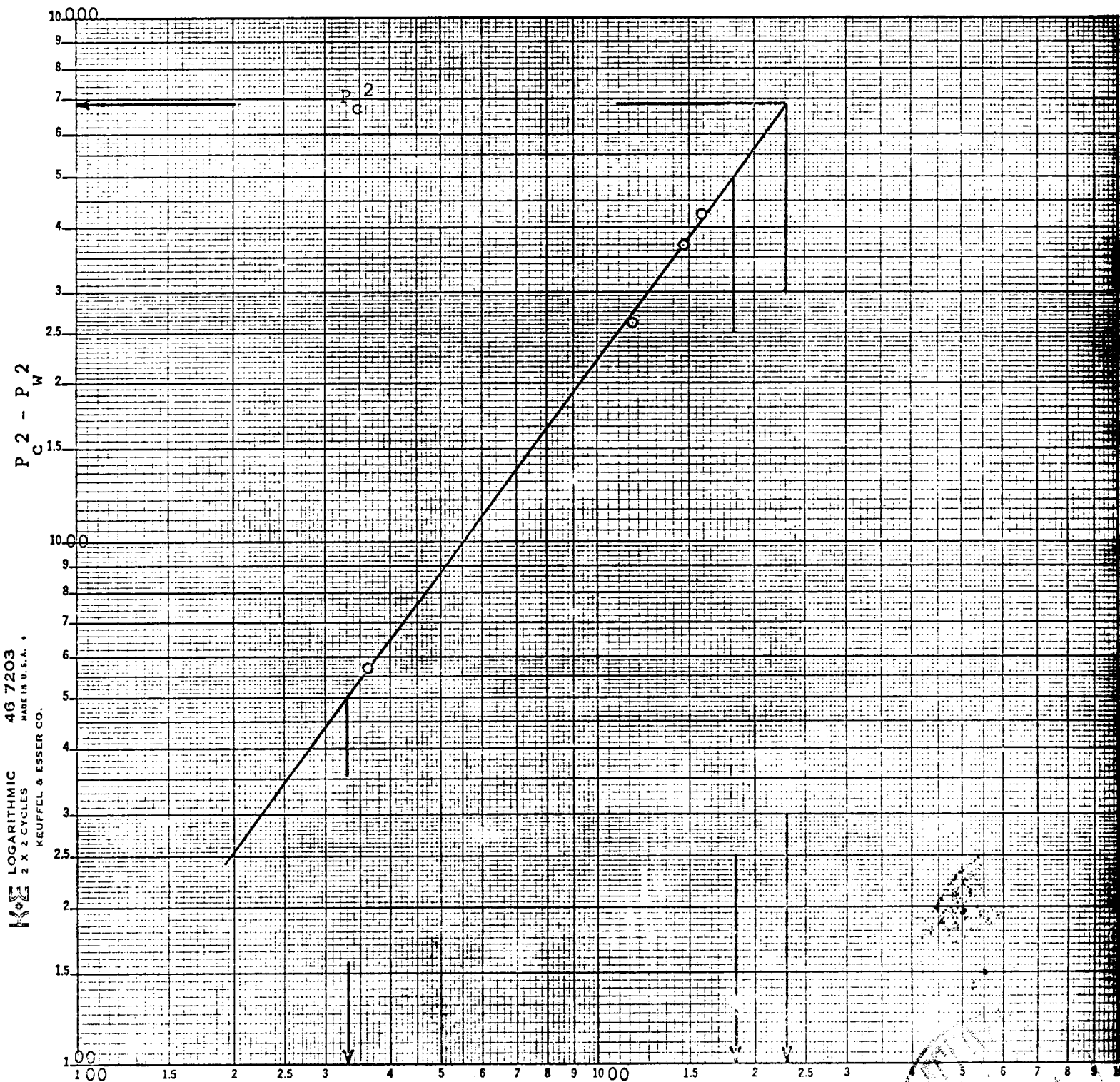
JUN 21 1974

WELL LOGS

Remarks:			
Approved by Commission:		Conducted By: Don Douglas & Joe Roberson	
		Calculated By: H L Hagler	
		Checked By:	
WEST TEXAS CONSULTING SERVICE, INC.			



OPERATOR Lone Star Industries, Inc.
 LEASE Schalk '63'
 WELL NO. 1
 FIELD Wildcat
 COUNTY Rio Arriba, New Mexico
 DATE January 25, 1974



Q in Mcf/Day

$\theta = 53^\circ 16'$

$n = .746$

$Q_1 = 1840$

$Q_2 = 330$

$\log Q_1 = 3.26452$

$\log Q_2 = 2.51851$

$.74631$

Absolute Open Flow = 2312 Mcf/Day



THOMAS S. SCHALK
618 FIRST WICHITA NATIONAL BANK BLDG.
WICHITA FALLS, TEXAS 76301

August 23, 1973

Summary of Completion 58-1

Perf. 8052 to 8100, left gun in hole, wire line parted.

8018 to 8034, 7988-7998, 7972-76 2 holes per foot.
Frac 350 sx at 3800, broke 2550 with sand concentration
going from 1/2 to 3/4. Rate 32 B/min used total of
45,000 gal water. Shut in pressure 2700.

Set drillable bridge plug at 7960
Perforated 7940 to 7954, 7898 to 7904, 7857 to 7876
2 holes per foot
Tried to frac this zone but could only get away with
84 sx and 16,800 gal water. Broke at 3250 treating
pressure 3800. Rate 25 B/min decreasing to 10 B/min.
Well trying to sand up at end of treatment. Sanded
off at 4000#.

Flowed well back right away, went in hole, drilled
bridge plug. Well trying to unload while running
tubing, after drilling bridge plug got increase in
gas but also got big increase in water. Cleaned out
to bottom, swabbed well to recover frac water. Well
flowing by heads, some evidence of sand.

After several days of swabbing laid gas line from 62-4
to 58-1 to use booster to help well flow. Well still
would not kick off. Pulled tubing, cleaned out sand
to T. D. Ran tubing back in hole, still would not flow.
Pulled tubing ran retrievable bridge plug and packer,
Halliburton to test perfs to try to determine where
water is coming from.

1. Set bridge plug at 8110, below all perforations
set packer at 8140, isolating lowermost perforations.
Annulus would not stay full during swabbing, and
could not swab well down and well would not flow.
2. Set bridge plug at 8040 and pkr at 7960, no com-
munication behind pipe, annulus stays full. Swabbed
well down trying to flow, still making too much wtr.
3. Bridge plug at 8005 and pkr at 7960, no communication.
Well flowing by heads.
4. Bridge plug at 7960, packer at 7840. Well flowing
by heads better show #3 but still too much water.

All perforated zones have not been tried together with
water.



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.) formations 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
DAKOTA	7772	7794	GAS	OJO ALAMO KIRTLAND PICTURED CLIFFS CLIFF HOUSE MENEFE POINT LOOKOUT MANCOS GALLUP GREENHORN GRANEVOS DAKOTA	2351 2460 3038 5396 5411 5548 5696 6507 7590 7643 7772	2339 2448 3026 5384 5399 5536 5684 6495 7578 7631 7760