ARAPAHOE DRILLING CO.

P.O. BOX 2078 ● FARMINGTON, NEW MEXICO 87401

JOHN E. SCHALK
MANAGING PARTNER

OCTOBER 24, 1974

AREA CODE 505
TELEPHONE: 325-5018

DEVIATION RECORD

RE: SCHALK 52 WELL NO. 4
     SECTION 24, TOWNSHIP 29 NORTH, RANGE 5 WEST
     RIO ARRIBA COUNTY, NEW MEXICO

     WELL SPUDDED: 12-14-73
     TOTAL DEPTH: 3640'
     REACHED TOTAL DEPTH: 12-21-73

DATE	FOOTAGE	DEVIATION
12-15-73	758'	1/4°
12-16-73	1575'	1/2°
12-16-73	1733'	1/2°
12-17-73	2265'	3/4°
12-18-73	2910'	3/4°
12-20-73	3375'	1°

ARAPAHOE DRILLING COMPANY

DONNA G. HUGHES
OFFICE MANAGER

STATE OF NEW MEXICO
COUNTY OF SAN JUAN

ON THIS 24TH OF OCTOBER, 1974 BEFORE ME, A NOTARY
PUBLIC, IN AND FOR SAID COUNTY, PERSONALLY APPEARED
DONNA G. HUGHES, OFFICE MANAGER OF ARAPAHOE DRILLING
COMPANY AND WHO IS PERSONALLY KNOWN TO ME, AND MAKES
OATH THAT THE MATTERS SET FORTH IN THE FOREGOING
STATEMENT ARE TRUE.

MY COMMISSION EXPIRES:

March 3, 1978

NOTARY PUBLIC

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN TRIPLICATE*
(Other instructions on reverse side)

Form approved.
Budget Bureau No. 42-R1424.

5. LEASE DESIGNATION AND SERIAL NO.	NM – 4452

• SUNDRY NOTICES AND REPORTS ON WELLS
(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals.)

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

1.
OIL WELL ☐   GAS WELL ☒   OTHER

7. UNIT AGREEMENT NAME

2. NAME OF OPERATOR
LONE STAR INDUSTRIES, INC., C/O JOHN E. SCHALK

8. FARM OR LEASE NAME
SCHALK 52

3. ADDRESS OF OPERATOR
P. O. BOX 2078, FARMINGTON, NEW MEXICO

9. WELL NO.
4

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*
See also space 17 below.)
At surface

2058' FROM THE SOUTH LINE, 1312' FROM THE EAST LINE

10. FIELD AND POOL, OR WILDCAT
PICTURED CLIFFS

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
SEC. 24, T-29N, R5W

14. PERMIT NO.

15. ELEVATIONS (Show whether DF, RT, GR, etc.)
6508' GR

12. COUNTY OR PARISH RIO ARRIBA   **13. STATE** N. MEX.

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF ☐	PULL OR ALTER CASING ☐		
FRACTURE TREAT ☐	MULTIPLE COMPLETE ☐		
SHOOT OR ACIDIZE ☐	ABANDON* ☐		
REPAIR WELL ☐	CHANGE PLANS ☐		
(Other)			

SUBSEQUENT REPORT OF:

WATER SHUT-OFF ☐	REPAIRING WELL ☐
FRACTURE TREATMENT ☐	ALTERING CASING ☐
SHOOTING OR ACIDIZING ☐	ABANDONMENT* ☐
(Other) CHANGE OPERATOR NAME ☒☒	

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

NO. 2 - CHANGE DESIGNATION OF OPERATOR:

FROM: LONE STAR INDUSTRIES, INC.
            C/O JOHN E. SCHALK
            P. O. BOX 2078
            FARMINGTON, NEW MEXICO   87401

TO: COASTLINE PETROLEUM COMPANY, INC.
            C/O JOHN E. SCHALK
            P. O. BOX 2078
            FARMINGTON, NEW MEXICO   87401

18. I hereby certify that the foregoing is true and correct

SIGNED _[signature]_   TITLE _____   DATE 10/2/74

(This space for Federal or State office use)

APPROVED BY _____   TITLE _____   DATE _____
CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

NEW MEXICO OIL CONSERVATION COMMISSION
INITIAL WELL DELIVERABILITY TEST REPORT FOR 19_____

Form C122-A
Revised 1-1-66

POOL NAME	POOL SLOPE	FORMATION	COUNTY
Gobernador	n= .85	Pictured Cliffs	Rio Arriba

COMPANY			WELL NAME AND NUMBER	
Coastline Petroleum Co., Inc.			Schalk 52-4	

UNIT LETTER	SECTION	TOWNSHIP	RANGE	PURCHASING PIPELINE
I	24	29N	5W	Northwest Pipeline

CASING O.D. – INCHES	CASING I.D – INCHES	SET AT DEPTH – FEET	TUBING O.D – INCHES	TUBING I.D. – INCHES	TOP – TUBING PERF. – FEET
2.875	2.441	3637	–	–	–ʼ

GAS PAY ZONE		WELL PRODUCING THRU		GAS GRAVITY	GRAVITY X LENGTH
FROM 3451 TO 3515		CASING X TUBING		.6$3	2254

DATE OF FLOW TEST		DATE SHUT-IN PRESSURE MEASURED
FROM 1-9-75 TO 1-17-75		1-15-74

PRESSURE DATA – ALL PRESSURES IN PSIA

(a) Flowing Casing Pressure (DWt)	(b) Flowing Tubing Pressure (DWt)	(c) Flowing Meter Pressure (DWt)	(d) Flow Chart Static Reading	(e) Meter Error (Item c − Item d)	(f) Friction Loss (a − c) or (b − c)	(g) Average Meter Pressure (Integr.)
						553

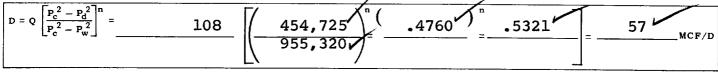| (h) Corrected Meter Pressure (g + e)	(i) Avg. Wellhead Press. P_t = (h+f)	(j) Shut-in Casing Pressure (DWt)	(k) Shut-in Tubing Pressure (DWt)	(l) P_c = higher value of (j) or (k)	(m) Del. Pressure	(n) Separator or De-hydrator Pr. (DWt) for critical flow only
	553	1123	–	1123	P_d = 80 %P_c 898	

FLOW RATE CORRECTION (METER ERROR)

Integrated Volume – MCF/D	Quotient of $\dfrac{\text{Item c}}{\text{Item d}}$	$\sqrt{\dfrac{\text{Item c}}{\text{Item d}}}$	Corrected Volume
108	1.000	1.000	Q = 108 MCF/D

WORKING PRESSURE CALCULATION

$(1 - e^{-s})$	$(F_c Q_m)^2 (1000)$	$R^2 = (1 - e^{-s})(F_c Q_m)^2(1000)$	P_t^2	$P_w^2 = P_t^2 + R^2$	$P_w = \sqrt{P_w^2}$
	Friction loss negligible				553

DELIVERABILITY CALCULATION

$$D = Q\left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2}\right]^n = \quad 108 \left[\left(\frac{454,725}{955,320}\right)^n\left(\;.4760\;\right)^n\right] = \quad .5321 \quad = \quad 57 \quad \text{MCF/D}$$

REMARKS:

SUMMARY

Item h	553	Psia
P_c	1123	Psia
Q	108	MCF/D
P_w	553	Psia
P_d	898	Psia
D	57	MCF/D

Company Coastline Petroleum Co., Inc.
By ____ J. R. Watkins
Title Agent
Witnessed By ____
Company ____