SoCalGas-150

Interoffice Correspondence between R. W. Weibel, R. M. Hijazi, D. R. Horstman, and M.E. Melton (Sept. 22, 1988), re: Workover Recommendation for Porter 37, Aliso Canyon

I.19-06-016

ALJs: Hecht/Poirier

Date Served: March 17, 2021

SOUTHERN CALIFORNIA gas COMPANY

INTEROFFICE CORRESPONDENCE

TO R. W. Weibel FROM M. E. Melton DATE Sept. 22, 1988

SUBJECT Workover Recommendation for Porter 37, Aliso Canyon

File

Attached is Rasha's recommendation to pull tubing, run casing inspection log, and pressure test Porter 37. This is one of the high priority annular flow wells of 1940 vintage with high pressure exposed to the outer casing.

It is recommended that Porter 37 be included in the casing inspection program scheduled for this Fall.

MEM:hr
Attachment

Approved by: R. W. Weibel
R. W. Weibel

cc: N. W. Buss
J. D. Mansdorfer
R. E. Wallace

64-F

INTEROFFICE CORRESPONDENCE

SOUTHERN CALIFORNIA gas COMPANY

RMH

TO M. E. Melton FROM R. M. Hijazi D. R. Horstman DATE Sept. 22, 1988

SUBJECT Workover Recommendation for Porter 37, Aliso Canyon

RECOMMENDATION

Run a casing inspection survey ("Vertilog" or equivalent) and pressure test the casing to determine its present condition.

DISCUSSION

Porter 37 was drilled in 1946 and subsequently deepened in 1956. Well records show that no previous casing inspection logs have been run on this well. The last casing pressure test was run in September 1977 which indicated that no apparent problems existed at that time.

There are no indications of any mechanical problems with the well at the present time. However, concern is concentrated on possible corrosion of the 42 year old casing. Casing inspection logs and casing pressure tests should be run to determine the current pipe status. The casing should be pressure tested to 80% of its internal yield. If any leaks in the casing are evident, they should be repaired as required.

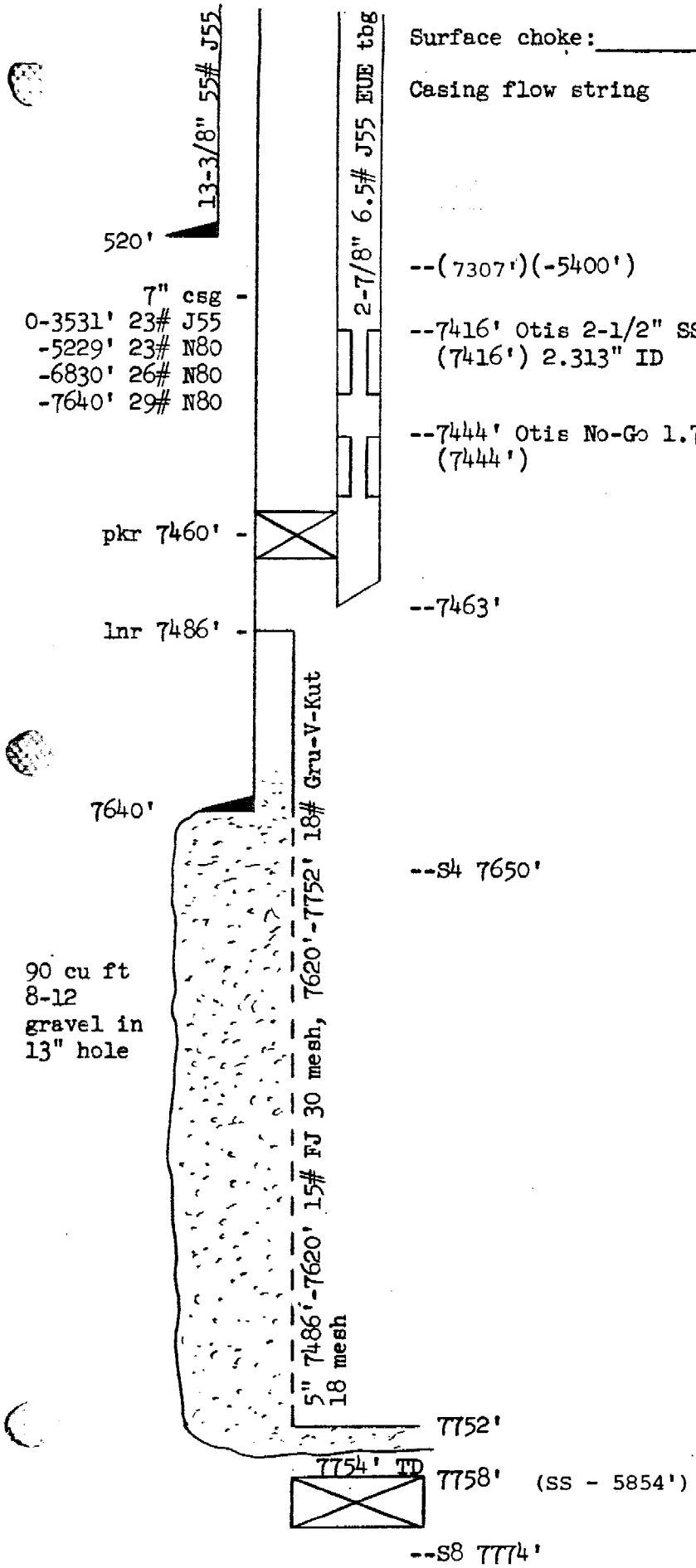
If protective casing is needed, the well should be converted to tubing flow for the current winter season and an innerstring included in the capital budget for 1989. The well should be placed back in service as soon as is practical subsequent to completion of the workover to minimize near wellbore formation damage.

RMH/DRH:hr

64-F

Elevation: 1900' G.L.
KB: 7' MV: 14'

Porter 37



Surface choke:_____

Casing flow string

6/12/46 - Well spud
8/26/46 - Well completed to 7750'
5/28/56 - 6/11/56 Deepened to 7881' TD
10/31/72 - 8/10/73 Cleaned out to 7758', perforated for conversion to gas storage
2/13/75 - 4/4/75 Milled over perf'd 5" liner. Cleaned out to 7754' & opened hole to 13", ran in 5" slotted & wire wrapped liner to 7752', gravel packed & ran tbg
9/19/77 - 9/28/77 Cleaned out to 7752', pressure tested csg, ran tbg with SSSV

WELL VOLUME

	Cu.Ft.	Bbl.
Tubing	243	43
Csg/Lnr.	32	6
Annulus	1267	226

6/24/85

JAN 19 1982

GENERAL WORK ORDER

IDENTIFYING NAME		DATE	G.W.O. NO.
Aliso Canyon - P37	Install Safety System	1/14/82	98757-69

BUDGET NO.	ORG. CODE	DEPARTMENT	OPERATING AREA
402-09-82-346-3	KZ	Underground Storage	Aliso Canyon

OPERATING DIVISION	ACCOUNTING DIVISION	COUNTY	MUNICIPALITY
North Basin	Headquarters	Los Angeles	Los Angeles

LENGTH OF MAIN | PRESSURE: H ☐ M ☐ L ☐ | SPECIFIED MINIMUM YIELD STRENGTH CODING 1. 20% AND OVER ☐ 2. UNDER 20% ☐ 3. OTHER THAN PIPELINE WORK [X]

REASON FOR WORK:

Install and evaluate a 2 7/8" modified MACCO "HP-HPB-XOC" subsurface safety valve in the existing Otis landing nipples.

ITEM NO.	DESCRIPTION OF WORK STREET - DIRECTION - BEGINNING - ENDING	* TYPE OF WORK	LENGTH	SIZE
1	Wireline installation of subsurface safety valve.	I		

* I = INSTALLATION, R = REMOVAL, A = ABANDONMENT, L = LOWERING, O = OTHER

ATLAS SHEET REF. WORK ORDER

ESTIMATED COSTS	PLANT	DEPR. RESERVE	OPER. & MAIN. EXPENSE	TOTAL
COMPANY LABOR				
CONTRACT LABOR				
TOTAL LABOR				
OTHER CONTRACT COSTS (TOTAL CONTRACT $)	2,000			2,000
STORES MATERIAL (MEMO PIPE COSTS $)				
PURCHASED MATERIAL	28,000			28,000
CONSTRUCTION EQUIP.—COMPANY				
PAVING				
OTHER DIRECT COSTS				
TOTAL DIRECT COSTS	30,000			30,000
AUTO EXPENSE				
MISC. PIPELINE MAT'L. (WHEN APPLICABLE) % OF PIPE COSTS				
TOOL EXPENSE % OF COMPANY LABOR				
STORES EXPENSE % OF MAT. FROM STORES				
STORES EXPENSE % OF PURCHASED MATERIALS				
TOTAL BASE COSTS				
EMPLOYEE BENEFITS % OF COMPANY LABOR, PLANT, RESERVE, OR BILLABLE				
PAYROLL TAXES % OF COMPANY LABOR, PLANT, RESERVE, OR BILLABLE				
G.C.C. 3.5 ~~% OF TOTAL LABOR, PLANT, RESERVE, OR BILLABLE~~ Base Costs	1,050			1,050
TOTAL COST	31,050			31,050

ACCOUNT	AMOUNT	ACCTG. DEPT. USE
352		

JOB CODE A.I.D. FORM PREPARED ☐ (ACCTG. DEPT. USE)

ACCOUNTING APPROVALS

BILL

FOR

ESTIMATED PLANT OVERHEAD RATE %

ESTIMATED RESERVE OVERHEAD RATE %

TITLE TO PROPERTY VESTED IN Pacific Lighting Gas Supply

APPROVALS LINE MGR. FUNCTIONAL MGR.

EXECUTIVE

SOUTHERN CALIFORNIA GAS CO.—1191-Z

AC_CPUC_0094719

SoCalGas-150.0004

*I = INSTALLATION, R = REMOVAL, A = ABANDONMENT, L = LOWERING

ITEM NO.	DESCRIPTION STREET - DIRECTION - BEGINNING - ENDING	*TYPE OF WORK	MAIN	
			LENGTH	SIZE

PROPERTY TO BE RETIRED

QUANTITY	DESCRIPTION	INSTALLED	
		DATE	W. O. NO.

SUBMIT IN DUPLICATE

RESOURCES AGENCY OF CALIFORNIA
DEPARTMENT OF CONSERVATION

DIVISION OF OIL AND GAS

History of Oil or Gas Well

Operator Southern California Gas Company Field or County Aliso Canyon
Well name and No. PORTER #37, Sec. 27, T 3N, R 16W S.B. B. & M.
A.P.I. well No. 037-00724 Name P. S. Magruder, Jr. (Person submitting report) Title Agent (President, Secretary or Agent)
Date September 29, 1977

Signature P. S. Magruder, Jr.

P.O. Box 3249 Terminal Annex, Los Angeles, California, 90051 (Address) (213) 689-3561 (Telephone Number)

History must be complete in all detail. Use this form to report all operations during drilling and testing of the well or during redrilling or altering the casing, plugging, or abandonment with the dates thereof. Include such items as hole size, formation test details, amounts of cement used, top and bottom of plugs, perforation details, sidetracked junk, bailing tests and initial production data.

Date

9-19-77 Killed Porter #37 with 325 barrels of 84# polymer drilling fluid.

9-20-77 Circulated gas out of drilling fluid. Installed back-pressure valve in doughnut. Removed Christmas tree and installed B.O.P.E.

9-21-77 Rigged up Halliburton and tested B.O.P.E. Blind rams to 4000 psi for 20 minutes; pipe rams to 4000 psi for 20 minutes; Hydril bag to 3000 psi for 20 minutes. Rigged up NOWSCO-while testing blind rams found leak in cross-over spool. Removed spool. Installed new spool and reinstalled B.O.P.E.

9-22-77 Tested B.O.P.E. with nitrogen, as follows:

Blind rams	to 4000 psi	for 20	minutes
Pipe rams	" 4000 psi	" 20	"
Hydril bag	" 3000 psi	" 20	"

Released Otis packer and pulled tubing. Measuring in hole with 6" bit and scraper.

9-23-77 Ran in well to top of liner at 7501'. Pulled out made up 4 1/8" bit and scraper. Cleaned out to 7752' (No Fill). Pulled out and made up Baker Bridge plug. Ran in hole to 7476' and set Bridge plug. Tested with 1200 psi. Circulated brine polymer drilling fluid out of well with fresh water treated with surface tension agent.

9-24-77 Pulled out of well. Ran in well with Baker fullbore and set at 3300'.
Tested casing from 3300' to 7476' with 2800 psi for 60 minutes
" 3300' to Surface with 3000 psi for 60 minutes
" 2700' " " " 3200 psi " 60 "
" 2400' " " " 3400 psi " 60 "
" 2000' " " " 3600 psi " 60 "
" 1300' " " " 3800 psi " 60 "
" 800' " " " 4000 psi " 60 "
Pulled fullbore. Ran in hole with retrieving tool to 7400'. Secured well.

9-25-77 Rig and crew idle.

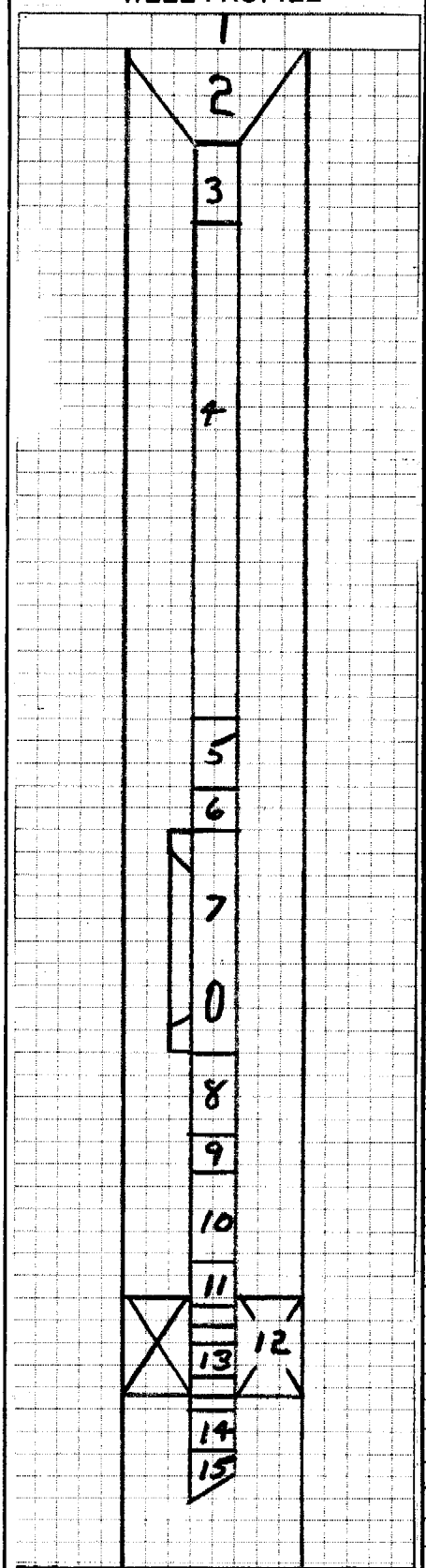
9-26-77 Changed over from water to polymer drilling fluid. Retrieved Baker Bridge plug and pulled out of hole. Rigged up GO-International wireline and set Otis permatrieve production packer at 7460'. Made up Otis safety system and tested to 5000 psi. Hydrotested tubing while running, cleaning threads and changing collars. Testing to 5000 psi for one minute.

9-27-77 Finished changing collars, cleaning pins and Hydro-testing in well. Spaced out and landed with 10,000# on packer. Pulled 25,000# over weight of tubing to check latch. String weight 38,000#. Secured well.

9-28-77 Installed Xmas tree and tested tree to 5000 psi (O.K.). Changed over to lease salt water. Rigged up Archer Reed and pulled separation tool. Set tubing plug in NO GO nipple and tested seals and packer to 2000 psi for 20 minutes. Released rig at 10:00 P.M. 9-28-77.

nd

WELL PROFILE



OPERATOR Southern California Gas Company

WELL # PORTER #37

FIELD Aliso Canyon

COUNTY Los Angeles

STATE California

DATE September 30, 1977

☐ NEW COMPLETION ☒ WORKOVER

	CASING	LINER	TUBING 1	TUBING 2	TUBING 3
SIZE	7"				
WEIGHT	23# 29#				
GRADE					
THREAD					
DEPTH					

ITEM NO.	TUBING DETAILS	LENGTH	DEPTH
1	K. B.	10.00	10.00
2	Donut	.50	10.50
3	Pup Jt. J-55 2 7/8" EUE 6.5#	9.80	20.30
4	239 Jts. J-55 Tubing 2 7/8"	7390.90	7411.20
5	Pup Jt. J-55 2 7/8" EUE 6.5#	4.05	7415.25
6	Otis X-nipple 2.350 I.D. 3.66 O.D.	1.10	7416.35
7	Otis Casing Flow Safety (2 7/8") System 2.3/3 I.D. 4.90 O.D.	7.60	7423.95
8	Otis Blast Jt. 2.44 I.D. 3.66 O.D.	19.90	7443.85
9	Otis 1.875 x 1.791 NO-GO nipple	1.20	7445.05
10	Otis Blast Jt. 2.441 I.D. 3.66 O.D.	9.88	7454.93
11	Otis J-Latch 2.38 I.D.	1.15	7456.08
12	Otis 7" 26-32# PW Packer 3.25 I.D. 5.75 O.D. (Wire Line measurement).....		7460.00
13	Otis Seal Assembly 2.38 I.D.	4.00	7460.08
14	Otis Prod Tube	2.90	7462.98
15	Otis Beveled Collar	.40	7463.38

-NOTES-

Otis Packer Set @ 7460' W/L measurement.

Landed tubing with 10,000# on packer.

Weight of string 38,000#